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The methylome and transcriptome of foetal skin. Implications for scarless healing

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1 **TITLE: The methylome and transcriptome of foetal skin. Implications for scarless healing**

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5 **Key words:** scarless skin wound healing; foetal skin; genome-wide DNA methylation profiling; genome-wide
6 gene expression profiling

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10 **ABSTRACT**

11 **Aims**

12 Foetal skin is known to heal without scarring. In mice, the phenomenon is observed until the 16-17th day of
13 gestation, known as the day of transition. The aim of the study was to identify key changes in gene
14 methylation and expression following the transition.

15 **Materials and Methods**

16 Methylome and transcriptome profiling were analyzed in murine dorsal foetal skin using microarray
17 approach.

18 **Results and Conclusions**

19 The genes associated with inflammatory response and hyaluronate degradation showed increased DNA
20 methylation before, while those involved in embryonic morphogenesis, neuron differentiation, and synapse
21 functions, after the transition. A number of the methylome alterations were retained until adulthood and
22 correlated with gene expression profiles, while functional associations imply that scarless healing depends
23 on epigenetic regulation.

24

25

26 INTRODUCTION

27 Foetal skin has differing responses to wounding depending on the gestational age. In the first and
28 the second trimester of gestation, skin undergoes rapid wound healing with little inflammation and a lack of
29 scarring [1]. Near the beginning of the third trimester, skin regeneration capabilities are lost. At this point,
30 skin injuries heal more slowly and higher collagen deposition is observed in the wounds, which results in
31 scarring [1]. It has been shown, that in humans, scarless wound healing of foetal skin occurs until the 22nd-
32 24th week of gestation [2]. In mice, embryonic day 16, also called the transition day [3], is the last one,
33 when regeneration abilities can be still observed. As demonstrated by experiments on lamb fetuses, the
34 size of efficiently repaired skin wound is decreasing with gestational age [4], which indicates that the
35 transition to scarless healing occurs gradually.

36 One of the important findings is that foetal fibroblasts produce higher amounts of total collagen.
37 Nevertheless, the ratio of collagen type III and type IV is elevated in embryonic cells in comparison to
38 those of fibroblasts from adults [5]. Moreover, other studies indicated that there is increased concentration
39 of glycosaminoglycans such as hyaluronic acid (HA) or chondroitin sulphate in foetal wounds, which are
40 present either on the cell surface or within the extracellular matrix. An enhanced level of HA in foetal
41 wounds, when compared to adults, may be correlated with a lower activity of hyaluronidases [6] and a
42 higher expression of the HA receptor (CD44) [7].

43 Another characteristic feature of foetal skin before the transition day is a reduced immune response
44 during wound healing as compared to adult skin [8, 9]. There are a higher number of macrophages as well
45 as T and B lymphocytes during normal healing when contrasted against scarless foetal skin wound closure
46 [1]. The proinflammatory cytokines, the interleukin 6 [10] and interleukin 8 [11] were found to be
47 decreased during scarless healing, whereas the expression of the interleukin 10 was increased [12]. Also,
48 there is a higher expression of hypoxia inducible factor (*Hif1a*) in foetal wounds. HIF1A can interact with
49 TGFB3, thus delaying the immunological response. It is also shown that a decreased number of mature
50 mast cells found in the foetal skin before E18 in mice may contribute to scarless wound healing [13].

51 The ability of foetal skin to scar-free wound healing has been associated with different expression
52 levels of genes belonging to the hox family, which plays an important role during early embryonic
53 development. It has been demonstrated that the *HOXA4*, *HOXA7*, *HOXA5*, *HOXB13*, *PRX-2* genes are
54 differentially expressed in human foetal skin before the beginning of the third trimester of pregnancy [14-
55 16]. It is also worth mentioning that the mammalian models of regeneration in adults betray certain
56 characteristics of the foetus [17-20].

57 It is well established that epigenetic mechanisms regulate organism development, while the
58 developmental advances correlate with the decrease of regeneration potential. Extensive DNA methylation
59 reprogramming occurs during embryogenesis and it is connected with proper organism development. On
60 the other hand, those changes may be responsible for the loss of higher regeneration capabilities which are
61 observed in early embryos. A well-known example where the regeneration abilities are lost in the course of
62 development is *Xenopus laevis* frog. Before the metamorphosis, *Xenopus laevis* tadpole exhibits a perfect
63 healing of amputated limbs. However, after this stage of development, the regeneration abilities are lost due
64 to the DNA methylation changes in the enhancer region of *Shh* gene and down-regulation of this
65 morphogene expression [21]. Also, embryonic stem cells after differentiation connected with genome-wide
66 epigenetic and transcriptomic changes lost their pluripotency potential [22].

67 Contributions of epigenetic mechanisms to wound healing were being considered [23]. Therefore,
68 epigenetic regulation is likely to determine scarless wound healing of foetal skin. In this study, the DNA
69 methylation and transcriptomic profiles in the dorsal skin of murine embryos were compared before and
70 after the loss of an ability to heal wounds without scarring.

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73 MATERIALS AND METHODS

74 *Tissue samples*

75 For timed gestations, mice of C57BL/6 strain were bred overnight and the day of vaginal plug was
76 considered as embryonic day 0 of gestation. Pregnant mice at gestational ages E15, E18, and E19 were
77 anaesthetized with isoflurane and then euthanized with cervical dislocation. Next, the foetuses were
78 removed from the uterus and euthanized. Dorsal skin samples collected from foetuses and adult mice were
79 immediately transferred to RNAlater stabilization reagent (Qiagen, cat. no. 76104). The dorsal skin from
80 adults was shaved and fragmented with scissors before immersing in RNAlater. The sex of murine embryos
81 was determined by using PCR according to the protocol described by McFarlane *et al.* [24].

82 *Nucleic acids extraction*

83 Genomic DNA was isolated using the DNeasy Blood & Tissue Kit (Qiagen, cat. no. 69504). Total
84 RNA was extracted with RNeasy Mini Kit (Qiagen, cat. no. 74104) following the manufacturer's protocols
85 and including on-column DNA digestion.

86 *Methylated DNA immunoprecipitation, microarray hybridization, and data processing*

87 Equal amounts of genomic DNA from three murine females for each developmental stage under
88 analysis were pooled. DNA labelling, hybridization on NimbleGen microarray system 3x720 K CpG Island
89 Plus RefSeq Promoter, and data processing were performed as described previously[25]. The data have
90 been deposited in the Gene Expression Omnibus (GEO) database under the accession number GSE67878.

91 *Identification of differentially methylated genes*

92 In order to discriminate the differentially methylated regions, we singled out the probes for which
93 the methylation level, expressed as a KS score, was at least 2.0 or higher, while it was below or equal to 1.0
94 in the reference sample(s). Further, we selected the genes and CpG islands mapped to those differentially
95 methylated regions which were delineated by at least three consecutive probes. The methylation peaks were
96 mapped to transcription start sites, primary transcripts, and CpG islands by using DEVA v. 1.0.2, assuming
97 the default distances 5000 bp upstream and 1000 bp downstream a feature.

98

99 *Synthesis of double stranded cDNA, labelling and hybridization*

100 Equal amounts of RNA templates extracted from dorsal skin tissue of C57BL/6J murine strain
101 from three female individuals for each developmental stage under analysis were pooled for cDNA
102 synthesis. The first strand of cDNA was obtained with Maxima Reverse Transcriptase
103 (ThermoScientificBio, cat. no. EP0742) using 3 µg of template RNA and, 400 units of Maxima Reverse
104 Transcriptase (200 units/µl), 5x reaction buffer (250 mM Tris-HCl, 375 mM KCl, 15 mM MgCl₂, 50 mM
105 DTT) and oligo dT₁₅ (200 pmoles) in a total volume of 40 µl. The synthesis of second strand of cDNA was
106 performed with a Roche kit (cat. no. 11 117 831 001) according to the manufacturer's protocol. Labelling
107 with Cy3 was done with NimbleGen One-Color DNA labelling kit (Roche, cat. no. 06370411001).
108 NimbleGen hybridization system (Roche, cat. no. 05583683001) was used for hybridization to NimbleGen
109 Mouse Gene Expression 12x135 K microarray (Nimblegen, Roche), following scanning with MS200
110 Scanner (Nimblegen, Roche) at 2 µm resolution by using high-sensitivity auto gain settings.

111 *Expression microarray data processing*

112 The digitalized microarray results obtained from the scanned images were processed using DEVA
113 1.0.2 software (NimbleGen, Roche). The inter-chip normalization was performed by using a robust multi-
114 chip average (RMA) algorithm with default settings [26]. The results of transcriptome profiling have been
115 deposited in the Gene Expression Omnibus (GEO) Database under the accession number GSE67878.

116 *Identification of differentially expressed genes*

117 The ratios of linear expression values were calculated in order to select those showing at least a 2-
118 fold difference in expression levels between E15 and other samples.

119 *Gene ontology and gene enrichment analysis*

120 Gene set enrichment and ontological analyses were performed using DAVID Bioinformatics
121 Resource 6.7 [27, 28]. Statistical significance of enrichment for skin wound healing genes was performed
122 using XLSTAT software.

123

124

125 **Prediction of transcription factors**

126 Prediction of transcriptional regulators was done with iRegulon [29] based on the analysis of
127 regulatory regions up to 500 bp upstream transcription start sites of differentially expressed genes. A gene
128 regulatory network was constructed with Cytoscape 3.2.0.

129 **Validation of microarray results**

130 The microarray results of DNA methylation status were confirmed for selected loci by DNA
131 digestion with McrBC, a CpG methylation dependent restriction enzyme (New England BioLabs, cat. no.
132 M0272S1) following Real-Time PCR quantitation (qPCR). 100 ng of genomic DNA was used for
133 digestion. After digestion, the samples were diluted 5-fold in water and 2 µl of diluted templates were used
134 in qPCR reactions. The level of DNA methylation was estimated as the ratio between McrBC-digested
135 DNA and mock-digested (input, control digestion without enzyme) DNA. The microarray results of gene
136 expression levels were validated for selected transcripts using qPCR with the *Actb* or *Tbp* gene as the
137 reference. The cDNA templates for transcripts quantitation were synthesized using 200 units of Maxima
138 Reverse Transcriptase and oligo dT₂₀ (100 pmoles) and 200 ng of total RNA in a final volume of 20 µl.
139 After reaction, the samples were diluted 5-fold in water and 2 µl of diluted templates were used for qPCR
140 reaction in a total volume of 10 µl.

141 Real-time PCR reactions were performed on a LightCycler[®]96 (Roche) or LightCycler Nano[®]
142 (Roche) with FastStart Essential DNA Green Master (Roche, cat. no. 06402712001) using PCR primers
143 listed in supplementary data file Dataset S1.

144

145

146 **RESULTS**

147 Under analysis were the transcriptomes and methylomes in the dorsal skin of murine embryos at
148 E15, which are known to heal skin wounds without scarring, in comparison to those at E18, E19 as well as
149 with the adult, 3-month old mice, when the ability to heal wounds without scarring begins to decline. The
150 focus of analysis in this study is finding genes of potential importance in scarless wound healing. It should
151 be stressed that skin tissues were taken from three embryos for each time-point, and then pooled,
152 fragmented and divided into two portions, one for genomic DNA, the other for RNA extraction.
153 Consequently, the obtained DNA methylation and gene expression profiles represented exactly the same
154 tissue samples.

155 ***Skin methylome profiling***

156 We investigated the methylome changes using the Methylated DNA immunoprecipitation approach
157 (MeDIP) followed by microarray analysis of mouse dorsal skin tissues. The DNA methylation microarray
158 applied interrogates 15,980 CpG Islands and 20,404 promoter regions corresponding to 22,881 transcripts.
159 A predominant number of probes in this microarray platform target promoter DNA methylation, while
160 intra- and intergenic DNA sequences are underrepresented in this design in relation to their content in the
161 mouse genome.

162 ***Genes differentially methylated between E15 and E18***

163 The results of comparison between E15 and E18 revealed several hundred differentially methylated
164 genes, showing both increased and decreased methylation following the transition (Figure 1a). The
165 differentially methylated genomic regions displaying decreased DNA methylation in skin at E15 relative to
166 E18 are enriched with the genes associated with transcription regulation, embryonic development including
167 the genes of homeobox proteins and that of Tbx1, epithelium and neuron development, pattern
168 specification, and synapse functions. A set of genes associated with epithelial cell differentiation are
169 enriched among those showing increased methylation at E15. Other genes showing enhanced DNA
170 methylation at E15 include that of Cxcr2, known as a potent chemotactic factor, which activates neutrophils
171 following interleukin 8 binding, that of Il17rb, a cytokine receptor which participates in the regulation of

172 I18 production, that of I121 encoding a potent cytokine inducing proliferation and differentiation of different
173 immune cells, and the *Hyal1* gene encoding hyaluronidase. Selected ontology terms associated with the
174 genes differentially methylated between E15 and E18 are presented in Table 1a and the corresponding
175 genes are listed in supplementary data file Dataset S2. The differentially methylated regions are listed in
176 supplementary data file Dataset S3.

177 ***Skin methylome changes following the transition and retained in adulthood***

178 We focused further analysis on comparing the alterations in DNA methylation profiles between
179 E15 when the scarless wound healing can be observed with most certainty, and the later phases, at E18, E19
180 and adults, when the enhanced regenerative capacity is lost. A prominent part of the DNA methylation
181 differences between E15 vs. E18 are retained at E19 and in adult 3-month-old, mice (Figure 1a).

182 ***Skin transcriptome profiling***

183 We carried out genome-wide gene expression profiling for embryonic (E15, E18, E19) and adult
184 skin tissue samples by using a NimbleGen 12x135K microarray. This platform interrogates 44,170
185 transcripts corresponding to over 24,200 genes. The transcripts which show at least a two-fold change in
186 expression were chosen for subsequent investigations and will be further referred to as the differentially
187 expressed. The analysis exposed thousands of genes which undergo extensive changes in expression in skin
188 tissue in the course of embryonic development (Figure 1b). We directed our attention to the genes which
189 are differentially regulated at E15 relative to E18, E19 and adult mice. We performed a gene ontology
190 analysis to demonstrate that a remarkable group of up-regulated transcripts are related to neuron
191 development and embryogenesis, while the genes involved in the immune and wounding response,
192 epidermal cell and keratinocytes differentiation are enriched among the down-regulated ones (Table 1b).
193 The results overlap with those for the genes differentially methylated before the transition. The list of
194 differentially expressed transcripts is shown in supplementary data file Dataset S5. It is worth noting that
195 among 104 top-ranked up-regulated genes, up-expressed by at least two-orders of magnitude at E15 there
196 are 43 ones involved in neuronal functions and development (supplementary data file Dataset S6). The
197 families of fillagrin and keratin (*Flg*, *Krt25*, *Krt28*, *Krt35*, *Krt71*, *Krt79*) and late cornified envelope



198 (*Lcelal*, *Lcelb*, *Lcelj*, *Lcelm*) are distinctive among 25 genes repressed by at least two-orders of
199 magnitude at E15 (supplementary data file Dataset S5).

200 ***Correlates between DNA methylation and gene expression levels***

201 In order to investigate the impact of DNA methylation at different developmental stages, we
202 undertook a search for the genes which show inverse correlations between DNA methylation status in the
203 promoter regions and expression levels. We observed multiple differences in gene expression and DNA
204 methylation when comparing the skin from embryonic day 15 (E15) and older embryos (E18, E19) as well
205 as adult mice (Figure 1, supplementary Figure S1). We singled out a group of 130 genes (supplementary
206 data file Dataset S4) for which the alterations in DNA methylation inversely correlate with the changes in
207 gene expression between E15 and E18. The inverse correlations were retained until adulthood for 53 from
208 the total of these genes (Table 2). The genes showing low methylation and high expression levels at E15
209 *versus* E18 are associated with developmental processes (Table 1c). This group comprises the *Mdk* gene
210 encoding neurite growth-promoting factor 2, the *Clca5* (aka *Clca2*) gene encoding a chloride channel
211 regulator, which shows over an order of magnitude lower expression before the decline of scarless healing
212 (Table 2). The genes displaying high methylation and low expression at E15 include *Il1f8*, *Sgms1*, *Tpsb2*,
213 that are involved in inflammatory response, as well as *Hyal1*, a key factor responsible for hyaluronan
214 degradation. The short list of 53 genes showing inverse correlations between DNA methylation and gene
215 expression between E15 and the later time-points represents only top-ranked differences. If the selection for
216 differentially methylated genes is extended for those showing at least a two-fold change in DNA
217 methylation status within the promoter regions (without the requirement that the lower methylation value is
218 below 1.0), 253 inverse correlations could be identified (supplementary data file Dataset S5). As
219 demonstrated by scatter plots in supplementary Figure S1, the number of genes showing inversely
220 correlated alterations in DNA methylation and expression is even higher when the comparison is restricted
221 to two time-points.

222

223

224 ***Scarless healing and key genes of wounding response***

225 Among the genes which were identified as differentially methylated and expressed in the foetal
226 skin before the transition, we carried out a search for those which have well-established functions in
227 wounding response and wound healing. We performed mining of “Wound Resolve” database (resolve-
228 whfg.appspot.com). The database lists 266 genes (March 4, 2016), the roles of which in the wounding
229 response and skin wound healing were confirmed by published knockout, mutagenesis, and overexpression
230 experiments. We identified 90 genes, with at least a two-fold difference in expression in E15 relative to
231 E18, E19, and adults, including 79 repressed, among those 266 listed in the database (supplementary data
232 file Dataset S7). The transcripts differentially expressed following the decline of foetal scarless healing are
233 statistically significantly enriched for the genes with established roles in skin wound healing (Figure 3). A
234 group of 9 genes down-regulated at E15 display enhanced DNA methylation (at least a two-fold change)
235 within the promoter regions. The genes showing enhanced expression at E15 primarily include those
236 known to promote wound repair (*Vtn*, *Spp1*, *Hbegf*, *Tert*, *Calca*), while most of the repressed ones are
237 connected with delayed healing in mutant mice (e.g. *Lep*, *Selp*, *Thbd*, *Hspg2*, *Pik3cg*) (supplementary data
238 file Dataset S7). Nevertheless, several genes among those repressed before the transition have been
239 reported to be associated with improved or accelerated wound healing as demonstrated by knockout
240 experiments *Tnfrsf1a* [30], *Nfic* [31], *Il1r1* [32], *Foxn1* [18, 33], *Dmd* [34], and *Spi1* [35].

241 Strikingly, most genes encoding 59 key factors participating in normal cutaneous wound repair,
242 listed in a review article by Stroncek and Reichert [36], show markedly different, in most cases decreased,
243 expression levels following the transition from scar-free to normal healing (supplementary data file Dataset
244 S8). A third part of those genes demonstrate at least a two-fold difference in expression between E15 and
245 later developmental time-points.

246 We did not observe significant differences in DNA methylation and expression levels of *Il6*, *Il8*
247 and *Il10* which are known for playing important roles during scarless wound healing, however, we
248 identified other genes of inflammatory factors which are hypermethylated at E15 and which can influence
249 wound healing. Among the genes up-methylated and down-expressed at E15 (Table 2), we found *Il17rb*



250 and *Cish* associated with inflammatory response, *Ly6d* known as an early marker of B-cell specification,
251 and the *Hyal1* gene encoding hyaluronidase 1, the enzyme responsible for hyaluronan degradation (Table 2
252 and supplementary data file Dataset S7).

253 ***Validation of DNA methylation and gene expression results***

254 We selected a group of genes which show differences in both DNA methylation and expression
255 levels in skin at different stages of development (Figure 2) in order to validate the microarray results with
256 quantitative Real-Time PCR as the reference method. Additional quantitation was performed for selected
257 transcripts (supplementary Figure S2). The results of PCR quantitation were in agreement with microarray
258 data.

259 ***Prediction of primary regulators***

260 With the view to predicting potential primary transcriptional regulators active in foetal skin before
261 the decline of scarless wound healing, we performed a prediction of potential transcription factors that
262 target the genes up-regulated and those hypomethylated at E15 in comparison to E18, E19, and adults. An
263 enrichment analysis of regulatory sequence motifs located in the promoter regions of differentially
264 expressed genes revealed three transcription factors: *Diablo*, *Zfp740*, and *Hoxa2* targeting almost two thirds
265 (1706) of 2725 genes up-regulated at E15 relative to E18, E19, and adults (Supplementary Figure S3a,b,c).
266 These three predicted transcription factors target a substantial proportion (approximately 90%) of genes
267 representing three key functions activated before the transition (synapse, homeobox, and neuron
268 differentiation, Supplementary Figure S3d). The *Hoxa2*, a homeobox gene involved in neuron
269 differentiation, displays enhanced expression and decreased methylation at E15 as compared to the later
270 time-points (Figure 2). Also, several target genes of the three transcriptional regulators are hypomethylated
271 at E15 (Supplementary Figure S3d).

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273

274

275 **DISCUSSION**

276 Epigenetic regulation is known to play a crucial role during organism development. The epigenetic
277 basis of wound healing and regeneration potential in animals has not been extensively investigated, but
278 possible associations have been reported in several studies [25, 37-39]. Accordingly, the scarless wound
279 healing of dorsal skin in the beginning of the third trimester of gestation and the loss of this ability in the
280 course of development may depend on epigenetic mechanisms, such as DNA methylation. The ability is
281 observed in mammals before the end of the second or the beginning of the third trimester of gestation, in
282 mice until day 16-17 at the latest. With regard to investigating the epigenetic aspects of this phenomenon,
283 we performed genome-wide DNA methylation profiling complemented with transcriptome analysis.
284 Transcriptome profiling of embryonic skin [40] and embryonic skin wound repair [41] before the transition,
285 as well as fibroblasts and keratinocytes cultured from the foetal skin [42, 43] have been already reported.
286 However, only one of these four studies [40] is focused on a model of non-injured foetal skin, analogous to
287 that we used in our research. Alterations in DNA methylation patterns in foetal skin following the decline
288 of scarless healing have not been investigated to date.

289 One of the aims of our study was to identify the genes which show considerable changes in DNA
290 methylation and expression status along the transition resulting in the loss of scar-free healing capability.
291 We performed a comparison of methylomes and transcriptomes in the murine skin before and after the loss
292 of the ability to heal wounds without scarring to show extensive changes following the embryonic day 15
293 relative to embryonic days 18 and 19. A great part of alterations in gene expression and DNA methylation
294 status we identified were retained into adulthood in 3 month-old mice. Further, we found a number of
295 inverse correlations between the DNA methylation and gene expression changes. A relatively small
296 proportion of the differentially methylated genes we singled-out and listed in Table 2 were found to display
297 inversely correlated changes in expression but it should be noted that the selection was restricted to the top-
298 ranked differences in DNA methylation and gene expression.

299 The functional associations of the differentially methylated and expressed genes with embryonic
300 morphogenesis including significant proportions of those encoding homeobox proteins, epithelium and

301 neuron development and differentiation, as well as synapse functions implicate the connection with
302 increased regenerative abilities of the murine skin at E15 (Table 1). Indeed, it has been reported that hox
303 genes might be of particular importance during scarless wound healing in foetal skin [14, 16]. The sensory
304 nervous system is important in mediating inflammation and healing [44]. Denervation was found to disrupt
305 skin regeneration in foetal mice [45], while up-regulation of neurodevelopmental genes was reported
306 during in the scarless healing period in rats[46]. Also the loss of innervation is responsible for impaired
307 wound healing in diabetes [47]. In consideration of nerve dependence in regeneration and skin wound
308 repair [48], the increased activity of genes involved in synapse functions and neurogenesis deserves
309 particular attention in the context of scarless healing. It is also worth stressing that the genes involved in
310 synapse functions, neuron development and differentiation show the highest enrichment values among the
311 top-ranked up-regulated transcripts (supplementary Dataset S6). A group of genes showing decreased
312 expression in the dorsal skin at E15 vs. E18, E19, and adults are enriched with those involved in the
313 inflammatory response and epithelial differentiation. Decreased inflammatory response in the foetus is
314 connected with its enhanced regenerative capability [1, 8, 10, 11].

315 Collectively, the induction of developmental factors and the repression of inflammatory response
316 genes in the foetus at E15, should be considered in the context of scar-free healing, although these
317 observations may be explained by developmental processes which are not critical in scar-free healing.

318 The analyses of genes which are known to be involved in skin wound healing appear to be more
319 conclusive. A significant part of the key genes with established roles in various phases of skin wound
320 healing (supplementary data file Dataset S8) as well as those identified in mutation and knockout
321 experiments in animals (supplementary data file Dataset S7) show differential expression and DNA
322 methylation of promoter regions in E15 vs. E18, E19, and adults. A prevailing number among these genes,
323 in particular those active in the inflammation phase of wound healing, display a decrease in expression,
324 though several other ones participating in skin wound healing are induced. Moreover, we found that the
325 *Hyal1* encoding hyaluronoglucosaminidase 1, the key factor responsible for hyaluronic acid degradation
326 shows a decreased expression and enhanced DNA methylation level before the transition, similarly as

327 *Hspg2* and *Pik3cg*. Decreased inflammatory response [5] and increased hyaluronic acid concentration [49]
328 belong to the major factors which may influence skin regeneration. Collectively, we found 90 single-gene
329 animal models of skin wound healing which relate to the genes differentially expressed after the decline of
330 scarless foetal healing, including 9 showing inversely correlated changes in gene expression and DNA
331 methylation within their promoter regions. This overrepresentation of genes implicated in skin wound
332 healing among those differentially expressed before the transition seems to be remarkable.

333 The obtained genomic results provoke a question as to the existence of a possible primary regulator
334 responsible for the transition in foetal skin. According to our computer prediction three transcriptional
335 factors, *Diablo*, *Hoxa2*, and *Zfp740* were suggested to target almost two-thirds of the genes up-regulated
336 before the transition.

337 Our findings support other observations which suggest the epigenetic basis of scarless skin wound
338 healing. It has been reported that skin transplanted to the foetus heals with scarring [50], while foetal skin
339 grafted to adults retains the ability to scarless repair [51]. Moreover, enhanced healing capability is
340 observed in the cell lines derived from foetal skin [52, 53]. These studies indicate that this is not the foetal
341 environment but the nature of foetal skin that is critical to the ability of scarless healing.

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346 **CONCLUSIONS**

347 We found extensive changes in DNA methylation and expression profiles following the loss of an
348 ability for skin to heal wounds without scarring in the foetus. The alterations were correlated with increased
349 expression of genes involved in embryonic morphogenesis, synapse functions, neuron and epithelium
350 development, and the repression of those responsible for epithelium differentiation, inflammatory response
351 and hyaluronan degradation. What is more, a major part of genes encoding key factors participating in
352 cutaneous wound healing underwent in excess of a two-fold increase in expression following the transition.
353 The study indicates the role of epigenetic regulation for several genes which have well established roles in
354 wound repair but it also reports novel candidate genes which could be associated with regenerative skin
355 wound healing in the foetus (Table 2, supplementary data file Dataset S4).

356 In conclusion, extensive methylome changes in the skin follows the loss of an ability for wounds to
357 heal without scarring. The functional associations of differentially methylated genes and inverse
358 correlations with gene expression indicate the epigenetic contribution to scarless skin wound healing.

359

360

361 **Summary points**

- 362 • Extensive DNA methylation and gene expression changes occur during foetal skin development
363 following the decline of scarless healing after the 15th day of gestation known as the transition day.
- 364 • A number of DNA methylation changes following the transition day are inversely correlated with
365 gene expression changes and retained till adulthood.
- 366 • Genes with a decreased methylation level and increased expression at E15 *versus* E18, E19 and
367 adult mice were mainly associated with embryonic morphogenesis, epithelium and neuron
368 development and differentiation, as well as synapse functions which implicate their potential role
369 in scarless wound healing.
- 370 • A group of genes showing decreased expression and increased methylation in the dorsal skin at
371 E15 were enriched with those involved in the inflammatory response and epithelial differentiation.
- 372 • The *Hyal1* gene, the key factor responsible for hyaluronic acid degradation, shows a decreased
373 expression and enhanced DNA methylation level before the decline of scarless healing.
- 374 • A number of genes with established roles in wound healing were differentially methylated and/or
375 expressed at E15 *versus* E18, E19 and adult mice.
- 376 • Three transcription factors - *Zfp740*, *Diablo* and *Hoxa2* were predicted as key transcriptional
377 regulators targeting the genes up-regulated before the decline of scarless foetal healing.
- 378 • Our analysis revealed a set of novel candidate genes for which the DNA methylation and
379 expression status is changing after the decline of scarless foetal skin wound healing.

380

381 **Data accessibility**

382 The raw and normalized genome-wide DNA methylation and gene expression data supporting the
383 results of this article are available in the Gene Expression Omnibus repository under the accession number
384 GSE67878 (<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?token=kpuvqumqdrmrhyx&acc=GSE67878>).

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For Review Only

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507
508

For Review Only



509 **FIGURE LEGENDS**

510

511 **Figure 1. Numbers of genes differentially methylated and expressed following the decline of foetal**
512 **scarless skin healing.**513 A. The numbers of genes differentially methylated in promoter and body region at E15 *versus* E18,
514 E19 and adult mice.515 B. The number of genes differentially expressed at E15 *versus* E18, E19 and adult mice.

516

517 **Figure 2. qPCR validation of microarray profiling results.**

518 The results are presented as means \pm SEM calculated from the qPCR results obtained for individual
519 animals. The skin samples of the same individuals were used to form the pools for microarray analysis.
520 Also, we carried out the validation for additional embryos collected from other mothers than those included
521 in the microarray (if $n > 3$). DNA methylation levels were quantitated based on the differences in digestion
522 with McrBC, a CpG-methylation-dependent restriction enzyme and presented as the ratios of MCrBC
523 digested to input DNA. Statistical significance is indicated as follows: * - p -value < 0.05 , ** - p -value < 0.01 .
524 The p -values of statistical significance for gene expression and DNA methylation results were determined
525 with Mann-Whitney and unpaired, two-tailed t -test, respectively. The additional results of expression
526 validation are shown in supplementary Figure S2.

527

528 **Figure 3. Enrichment for genes implicated in skin wound healing within the transcripts differentially**
529 **regulated following the decline of foetal scarless healing.**

530 Among 266 genes implicated in skin wound healing healing as confirmed by knockout and mutagenesis
531 studies listed in Wound Resolve Database (<http://resolve-whfg.appspot.com>), there are 90 ones showing at
532 least a two-fold change in expression following the foetal transition. As determined by Chi square two-
533 tailed test with Yates correction for continuity, skin wound healing-related genes are significantly enriched
534 among those differentially expressed at E15 (prior to the transition), with $p < 0.0001$ for the down-
535 regulated, and $p = 5.97E-04$ for those up- and down-regulated together.

536

537

538 **Table 1. Functions and pathways distinctive of the genes differentially methylated and expressed after the decline of foetal**
 539 **scarless healing.**
 540

A) DIFFERENTIALLY METHYLATED AT E15 VS. E18	
DOWN-METHYLATED AT E15	UP-METHYLATED AT E15
GO:0006355~regulation of transcription, DNA-dependent (63)* GO:0048598~embryonic morphogenesis (25)* IPR001356:Homeobox (15)* GO:0007498~mesoderm development (7)* GO:0048732~gland development (14)* GO:0060429~epithelium development (12) GO:0001568~blood vessel development (10) GO:0007389~pattern specification process(23)* GO:0048666~neuron development (11) GO:0045202~synapse (14) IPR001723:Steroid hormone receptor (7)* IPR006210:EGF-like (9)	GO:0008219~cell death (13) SP_PIR_KEYWORDS keratin (6) GO:0030855~epithelial cell differentiation (6) GO:0006954~inflammatory response (5) NS, GO:0009611~response to wounding (5) NS domain: EGF-like (4, including <i>Hyal1</i> , <i>Hspg2</i>) NS
B) DIFFERENTIALLY EXPRESSED AT E15 VS. E18, E19 & ADULTS	
UP-REGULATED AT E15	DOWN-REGULATED AT E15
GO:0006355~regulation of transcription, DNA-dependent (199)* GO:0045202~synapse (158)* GO:0030182~neuron differentiation (131)* GO:0048666~neuron development (98)* GO:0005509~calcium ion binding (174)* GO:0006816~calcium ion transport (37)* PR001356:Homeobox (69)* GO:0048562~embryonic organ morphogenesis (33)* SP_PIR_KEYWORDS: developmental protein (169)* GO:0007389~pattern specification process (47)* IPR003598:Immunoglobulin subtype 2 (56)* GO:0030855~epithelial cell differentiation (21)	immune response (72)* IPR013783:Immunoglobulin-like fold (124)* GO:0009913~epidermal cell differentiation (22)* GO:0030216~keratinocyte differentiation (20)* Apoptosis (66)* GO:0031012~extracellular matrix (65)* GO:0030414~peptidase inhibitor activity (38)* GO:0006954~inflammatory response (69)* GO:0009611~response to wounding (91)* SP_PIR_KEYWORDS keratin (28) IPR013032:EGF-like region, conserved site (47) including <i>Hyal1</i> , <i>Hspg2</i>
C) DIFFERENTIALLY METHYLATED AND EXPRESSED AT E15 vs. E18	
DOWN-METHYLATED AND UP-REGULATED AT E15	UP-METHYLATED AND DOWN-REGULATED AT E15
GO:0048562~embryonic organ morphogenesis (8)* GO:0007389~pattern specification process(7)* DNA-binding region: Homeobox (6) GO:0044456~synapse part (4) NS	SP_PIR_KEYWORDS cell junction (6) IPR013032:EGF-like region, conserved site (4), including <i>Hyal1</i> , <i>Hspg2</i> NS GO:0045095~keratin filament (4)

541 The listed terms were statistically significant as determined using exact Fisher's test with the p-value set to 0.05 with the exception of those
 542 indicated as "ns". The terms marked with the asterisk sign "*" were significant after Benjamini correction with the p-value set to 0.05. Gene
 543 numbers are given in brackets. The corresponding gene sets are listed in supplementary data file Dataset S2.
 544

545 **Table 2. Inversely correlated changes in gene expression and DNA methylation status in foetal skin retained till adulthood.**

Gene name	Description	Methylation gain (+)/ loss (-) at E15 vs. E18&E19&Adults	Expression fold-change vs. E15		
			E15/E18	E15/E19	E15/Adult
<i>Adh7</i>	alcohol dehydrogenase 7 (class IV), mu or sigma	+	0.49	0.28	0.10
<i>Ankrd9</i>	ankyrin repeat domain 9	+	0.27	0.29	0.29
<i>Asb14</i>	ankyrin repeat and SOCS box-containing 14	+	0.34	0.26	0.02
<i>Car12</i>	carbonic anhydrase 12	+	0.16	0.18	0.15
<i>Cass4</i>	Cas scaffolding protein family member 4	+	0.24	0.21	0.13
<i>Cish</i>	cytokine inducible SH2-containing protein	+	0.19	0.29	0.37
<i>Clca5</i>	chloride channel calcium activated 5	+	0.08	0.08	0.02
<i>Dram1</i>	DNA-damage regulated autophagy modulator 1	+	0.13	0.15	0.19
<i>Ephx3</i>	epoxide hydrolase 3	+	0.27	0.25	0.14
<i>Fabp6</i>	fatty acid binding protein 6, ileal (gastrotrypin)	+	0.37	0.35	0.18
<i>Gfod1</i>	glucose-fructose oxidoreductase domain containing 1	+	0.35	0.32	0.08
<i>Gpr146</i>	G protein-coupled receptor 146	+	0.23	0.35	0.11
<i>Hspg2</i>	perlecan (heparan sulfate proteoglycan 2)	+	0.21	0.21	0.33
<i>Hyal1</i>	hyaluronoglucosaminidase 1	+	0.39	0.39	0.30
<i>Il17rb</i>	interleukin 17 receptor B	+	0.31	0.32	0.48
<i>Krt14</i>	keratin 14	+	0.50	0.48	0.39
<i>Krt2</i>	keratin 2	+	0.29	0.31	0.27
<i>Krt85</i>	keratin 85	+	0.02	0.02	0.01
<i>Krtap3-2</i>	keratin associated protein 3-2	+	0.15	0.14	0.02
<i>Lrrc39</i>	leucine rich repeat containing 39	+	0.06	0.09	0.07
<i>Ly6d</i>	lymphocyte antigen 6 complex, locus D	+	0.06	0.05	0.04
<i>Naip6</i>	NLR family, apoptosis inhibitory protein 6	+	0.27	0.23	0.10
<i>Naip7</i>	NLR family, apoptosis inhibitory protein 7	+	0.40	0.35	0.10
<i>Pik3cg</i>	phosphoinositide-3-kinase, catalytic, gamma	+	0.43	0.35	0.39
<i>Rsul</i>	Ras suppressor protein 1	+	0.39	0.33	0.16
<i>S100a3</i>	S100 calcium binding protein A3	+	0.04	0.05	0.01
<i>S100a4</i>	S100 calcium binding protein A4	+	0.21	0.15	0.02
<i>Scgb1a1</i>	secretoglobin, family 1A, member 1 (uteroglobin)	+	0.27	0.20	0.05
<i>Synpo</i>	synaptopodin	+	0.31	0.26	0.10
<i>Xdh</i>	xanthine dehydrogenase	+	0.04	0.05	0.01
<i>Amph</i>	amphiphysin	-	67.95	30.40	58.87
<i>Cdc42</i>	cell division cycle 42 homolog (S. cerevisiae)	-	8.23	7.66	5.08
<i>Dlx6</i>	distal-less homeobox 6	-	5.12	8.48	6.13
<i>Efnb3</i>	ephrin B3	-	13.75	6.94	25.16
<i>Eif1b</i>	eukaryotic translation initiation factor 1B	-	2.58	2.02	5.94
<i>Epb4.1l1</i>	erythrocyte protein band 4.1-like 1	-	3.11	3.14	3.68
<i>Fam125b</i>	family with sequence similarity 125, member B	-	2.47	2.25	4.13
<i>Fnbp11</i>	formin binding protein 1-like	-	3.23	2.76	4.52
<i>Galnt14</i>	polypeptide N-acetylgalactosaminyltransferase 14	-	13.14	12.38	14.31
<i>Gm347</i>	predicted gene 347	-	3.63	2.14	12.85
<i>Hoxa3</i>	homeobox A3	-	2.99	3.92	4.82
<i>Hoxb1</i>	homeobox B1	-	3.85	3.24	2.77
<i>Lrrn2</i>	leucine rich repeat protein 2, neuronal	-	7.70	3.98	26.79
<i>Mbd2</i>	methyl-CpG binding domain protein 2	-	3.94	3.09	2.46
<i>Mdk</i>	midkine	-	2.98	2.64	15.52
<i>Nsg1</i>	neuron specific gene family member 1	-	4.42	3.15	8.33
<i>Sert1</i>	scratch homolog 1, zinc finger protein (Drosophila)	-	202.15	363.25	1199.74
<i>Slc30a10</i>	solute carrier family 30, member 10	-	16.33	15.07	139.66
<i>Tmem150c</i>	transmembrane protein 150C	-	15.92	7.02	13.96
<i>Vstm2b</i>	V-set and transmembrane domain containing 2B	-	6.60	3.38	28.85
<i>Zdhc2</i>	zinc finger, DHHC domain containing 2	-	2.75	2.35	8.02
<i>Zswim6</i>	zinc finger, SWIM domain containing 6	-	3.25	2.29	12.96
<i>Zyg11b</i>	zyg-11 homolog B (C. elegans)	-	2.34	2.48	2.72
		SCALE	0.10	1.00	10.00

546 The list includes the genes showing at least a two-fold change in expression and alterations in DNA methylation (DMRs) within the promoter
547 regions following the decline of foetal scarless skin healing and retained till adulthood. More genes showing inverse correlations between
548 DNA methylation and expression are listed in supplementary data file Dataset S4 and 5.
549

550 **SUPPLEMENTARY FILES**551 **Supplementary data file.**

552 Dataset S1. The list of primers used in qPCR experiments.

553 Dataset S2. The gene sets corresponding to functional terms listed in Table 1.

554 Dataset S3. The genomic coordinates of differentially methylated regions and associated genes identified in
555 murine foetal dorsal skin before and after the transition from scarless to normal healing.

556 Dataset S4. Genes showing inversely correlated changes in expression and DNA methylation status after
557 the decline of foetal scarless healing in skin.

558 The list includes the genes showing at least a two-fold change in expression and alterations in DNA
559 methylation (DMRs) within the promoter regions at E15 relative to E18. For the major part of the genes,
560 the inverse correlations between DNA methylation and gene expression are retained at E19 and till
561 adulthood.

562 Dataset S5. The differentially expressed transcripts identified in murine foetal dorsal skin before and after
563 the transition from scarless to normal healing.

564 Dataset S6. Genes expressed at two orders of magnitude higher before the decline of scarless healing.

565 Dataset S7. Genes implicated in knockout and mutagenesis models of wound healing listed in Wound
566 Resolve Database (<http://resolve-whfg.appspot.com>) - changes of expression and DNA methylation within
567 the promoter regions.

568 Dataset S8. Expression changes of key wounding response genes in murine foetal skin after decline of
569 scarless healing.

570 **Supplementary Figure S1. Genes differentially methylated and expressed in the skins of embryos at**
571 **E15 relative to E18, E19 and adult mice.**

572 A). Comparison of genes differentially methylated and expressed at E15 vs. E18, E19 and adult mice
573 presented as scatter plots. Methylation (dKS)- presented as the differences of KS value between
574 differentially methylated genes. Expression (log₂r) - results presented as log₂ of linear expression ratio
575 between analysed samples. B). The numbers of differentially expressed genes potentially regulated by DNA
576 methylation in the skin of foetuses at embryonic day 15 in comparison to embryonic day 18, 19 and adult
577 mice.

578 **Supplementary Figure S2. Quantitative PCR validation of gene expression microarray profiling.**

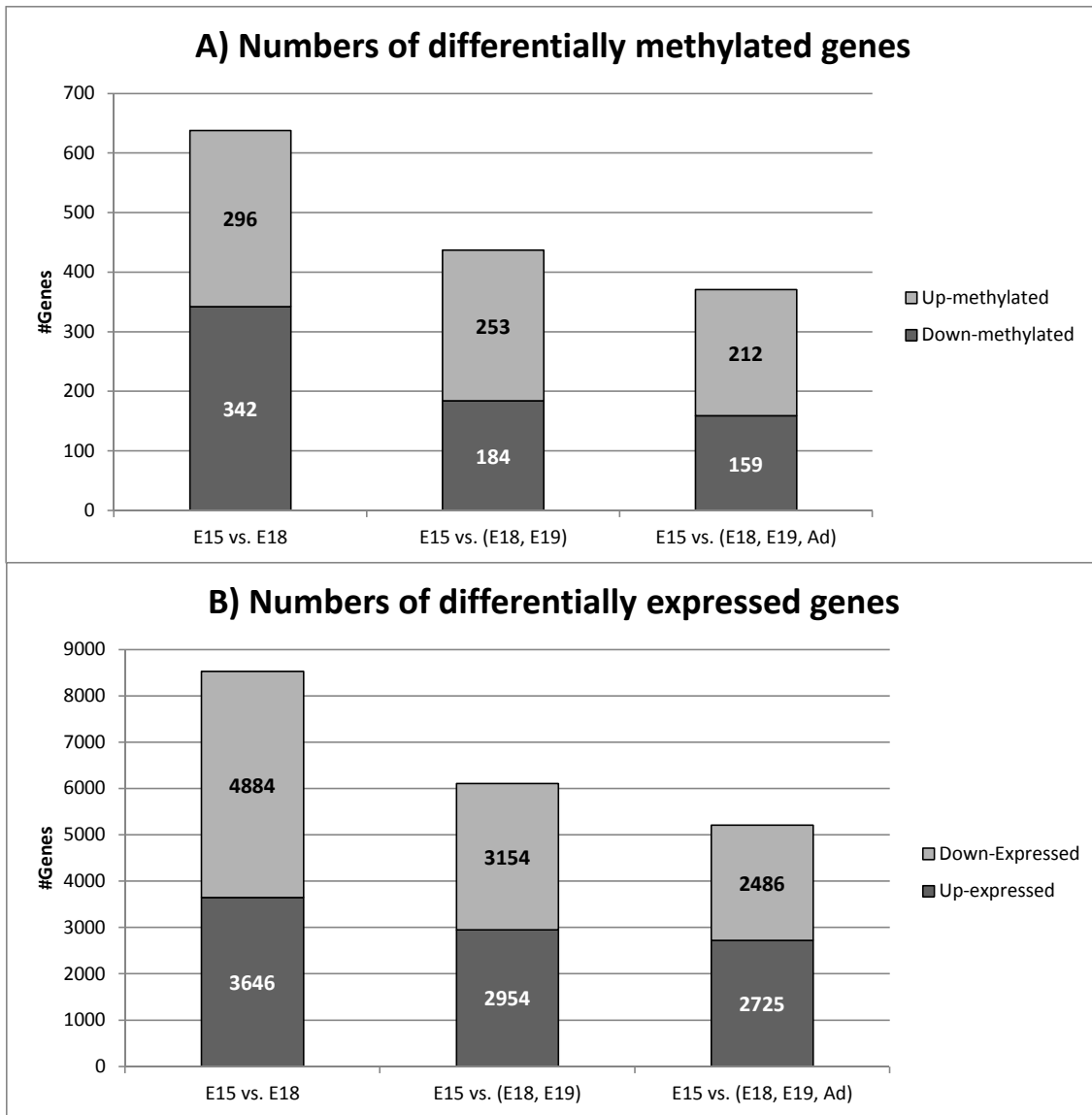
579 The results are presented as means ±SEM calculated from the qPCR results obtained for individual
580 animals. The skin samples of the same individuals were used to form the pools for microarray analysis.
581 Also, we carried out the validation for additional embryos collected from other mothers than those included
582 in the microarray (if n>3). Statistical significance was determined Mann-Whitney test and it is indicated as
583 follows: * - p-value<0.05, **-p-value<0.01.



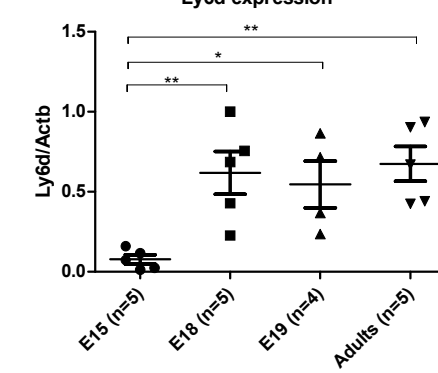
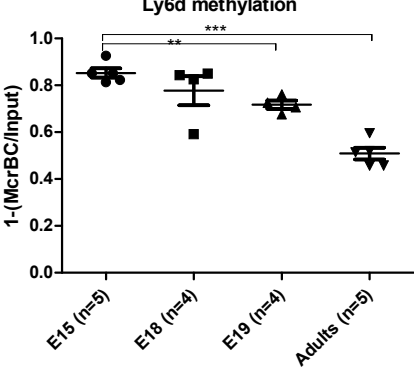
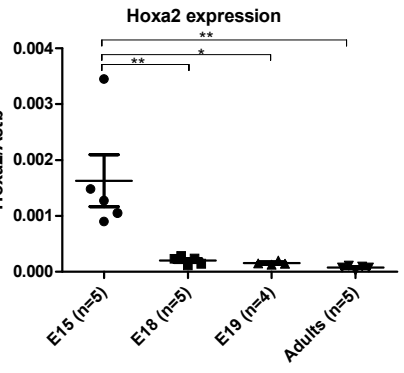
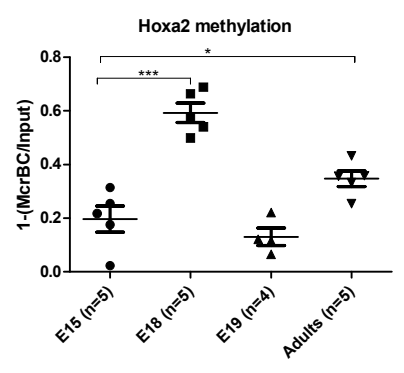
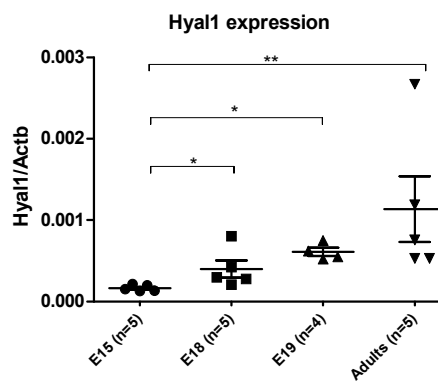
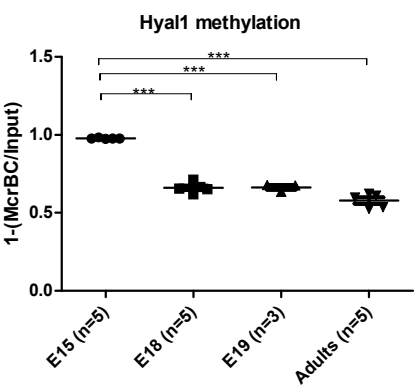
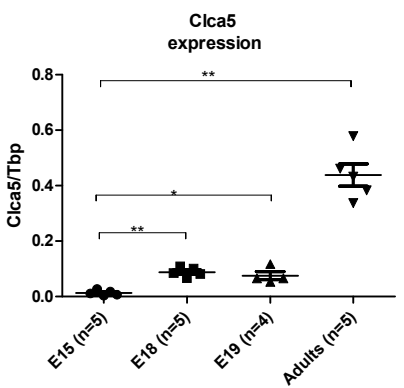
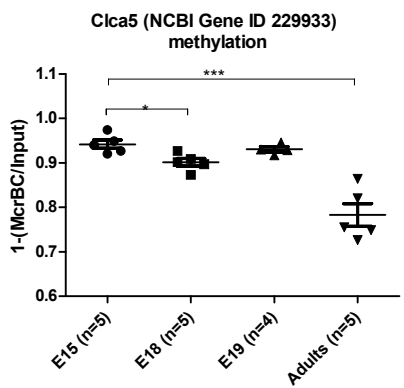
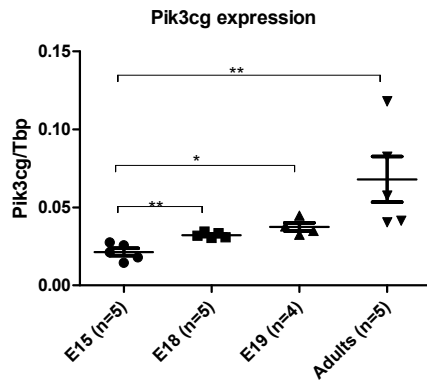
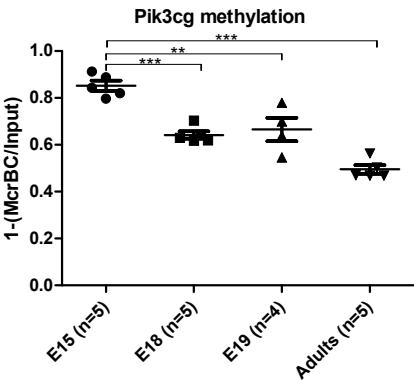
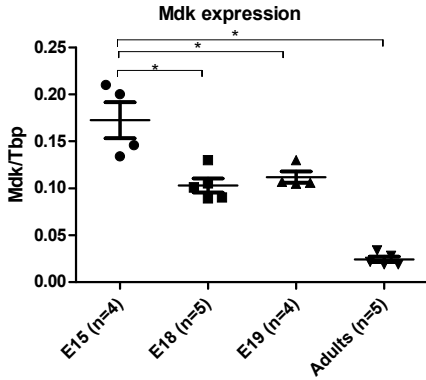
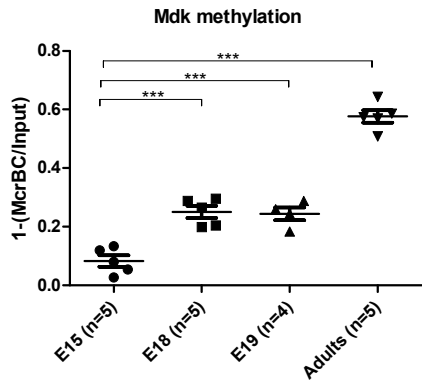
584 **Supplementary Figure S3. Three major transcription factors targeting the genes up-regulated after**
585 **the decline of foetal scarless healing.**

586 **A)** The Venn diagram shows the numbers of genes targeted by each of three transcription factors: Diablo,
587 Zfp740, and Hoxa2. **B)** The transcription factors were predicted based on an enrichment analysis of
588 regulatory sequence motifs located in the promoter regions of differentially expressed genes and the
589 analysis results were expressed as enrichment scores (NES). **C)** Diablo, Zfp740, and Hoxa2 target 51, 38,
590 and 23% of 2725 genes up-regulated in foetal skin before the decline of scarless wound healing capability,
591 respectively. Together these transcription factors target 1706 (63%) of the genes up-regulated at E15 vs.
592 E18, E19, and adults. **D)** Predicted key regulators and their targets associated with critical functions
593 activated before the transition. The predicted transcriptional factors were connected with the target genes
594 up-regulated in foetal skin before the transition (E15 vs. E18, E19, and adults) and associated with neuron
595 differentiation, homeobox, and synapse functions. The transcription factors are shown as black octagons,
596 the genes associated with synapse functions and homeobox are indicated with blue and red fonts,
597 respectively, and those involved in neuron differentiation are distinguished with red borders. The genes
598 mapped to the promoter regions hypomethylated at E15 are represented by black filled circles.

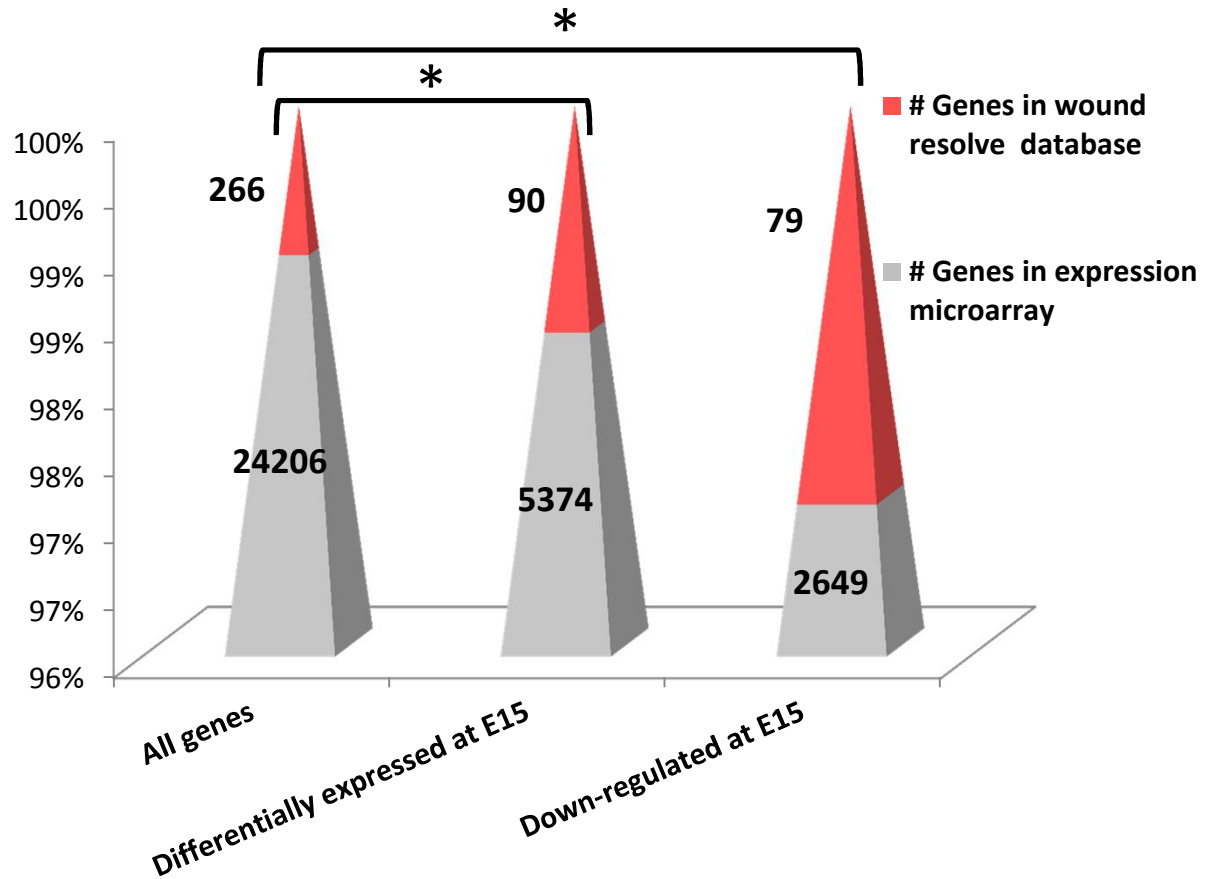
599



Only



Enrichment in skin wound healing genes (knock-out and mutagenesis animal models)



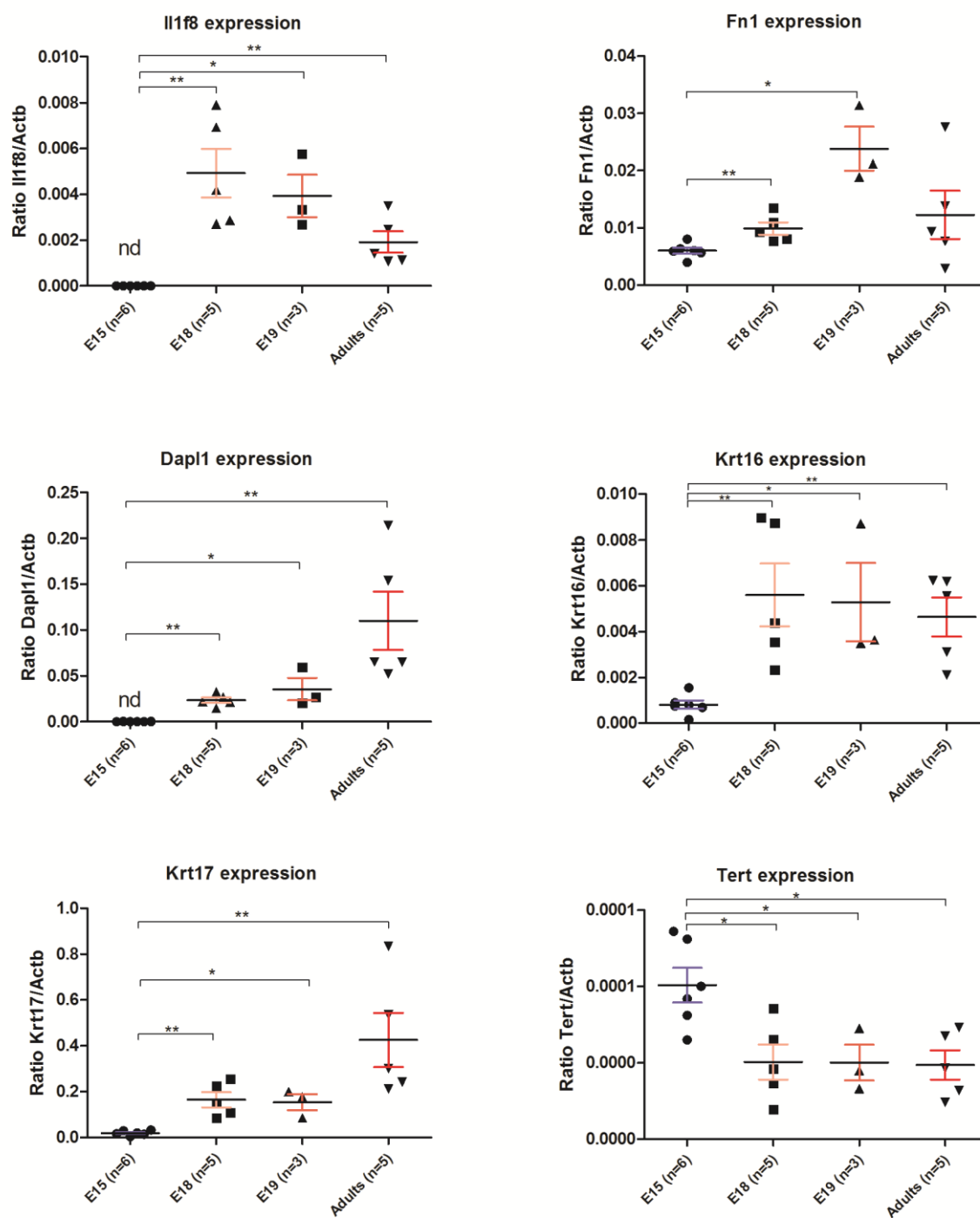
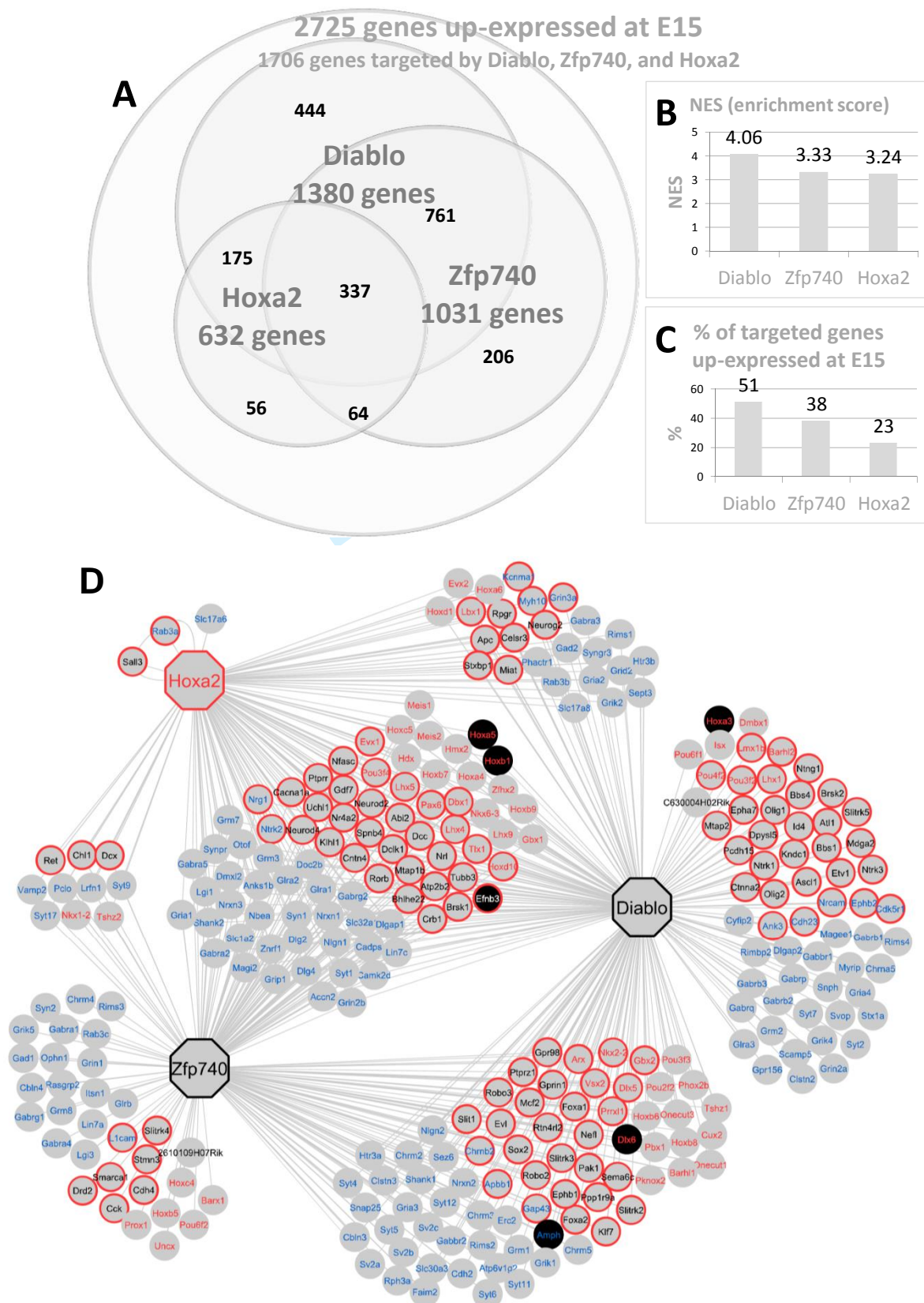


Figure S2. Quantitative PCR validation of gene expression microarray profiling.

The results are presented as means \pm SEM calculated from the qPCR results obtained for individual animals. The skin samples of the same individuals were used to form the pools for microarray analysis. Also, we carried out the validation for additional embryos collected from other mothers than those included in the microarray (if $n > 3$). Statistical significance was determined Mann-Whitney test and it is indicated as follows: * - p -value < 0.05 , ** - p -value < 0.01 .



Supplementary Figure S3. Three major transcription factors targeting the genes up-regulated after the decline of foetal scarless healing.

A) The Venn diagram shows the numbers of genes targeted by each of three transcription factors: *Diablo*, *Zfp740*, and *Hoxa2*. B) The transcription factors were predicted based on an enrichment analysis of regulatory sequence motifs located in the promoter regions of differentially expressed genes and the analysis results were expressed as enrichment scores (NES). C) *Diablo*, *Zfp740*, and *Hoxa2* target 51, 38, and 23% of 2725 genes up-regulated in foetal skin before the decline of scarless wound healing capability, respectively. Together these transcription factors target 1706 (63%) of the genes up-regulated at E15 vs. E18, E19, and adults. D) Predicted key regulators and their targets associated with critical functions activated before the transition. The predicted transcriptional factors were connected with the target genes up-regulated in foetal skin before the transition (E15 vs. E18, E19, and adults) and associated with neuron differentiation, homeobox, and synapse functions. The transcription factors are shown as black octagons, the genes associated with synapse functions and homeobox are indicated with blue and red fonts, respectively, and those involved in neuron differentiation are distinguished with red borders. The genes mapped to the promoter regions hypomethylated at E15 are represented by black filled circles.

Dataset S1. The list of PCR primers used in qPCR experiments.

g- genomic DNA/methylation validation, t-transcript/expression validation

Gene/Transcript ID (NCBI)	Gene name	DNA methylation /transcription quantitation	Amplicon length (bp)
NM_001012336	<i>gMdk</i>	<i>methylation</i>	314
NM_020272	<i>gPik3cg</i>	<i>methylation</i>	325
NM_178697	<i>gClca5</i>	<i>methylation</i>	195
NM_008317	<i>gHyal1</i>	<i>methylation</i>	193
NM_010451	<i>gHoxa2</i>	<i>methylation</i>	122
NM_010742	<i>gLy6d</i>	<i>methylation</i>	149
BC021636	<i>tHyal1</i>	<i>transcription</i>	133
BC099373	<i>tFn1</i>	<i>transcription</i>	142
BC119517	<i>tIl1f8</i>	<i>transcription</i>	128
BC103666 BC103615	<i>tKrt16</i>	<i>transcription</i>	133
BC116916	<i>tDapl1</i>	<i>transcription</i>	121

BC127068	<i>tTert</i>	<i>transcription</i>	157
BC132454	<i>tKrt17</i>		120
		<i>transcription</i>	
BC012244	<i>tMdk</i>	<i>transcription</i>	277
BC051246	<i>tPik3cg</i>	<i>transcription</i>	153
BC096379	<i>tClca5</i>	<i>transcription</i>	124
BC117105	<i>tHoxa2</i>	<i>transcription</i>	159
BC025135	<i>tLy6d</i>	<i>transcription</i>	128
NM_013684.3	<i>tTbp</i>	<i>transcription</i>	187
NM_007393.3	<i>tActb</i>	<i>transcription</i>	500

ation

Primer sequence
F: GCTGCCCTTCTTACCTTCTCTAC
R: TGGAAAGTGGGACAAGTCAGTCAA
F: TCCCTTCATATCCAGATGCAGA
R: ATAGATTTCACTACAAGCAATCCA
F: CAGTCCACTTTTACTTCTCTAAGC
R: ATTCCTAAGGACAGTGGTAACAA
F: CTAATACACCCCTGCTCATTTT
R: TCTGTCTATTCTAGGTCAGTGATTG
F: ATTTAGAAGAGTCCCGTCCCC
R: TTGGAACCGCACAAAGGTCTTAA
F: GAAGTTGAGAGACAAGCCTGGA
R: TGTTGCTCTTTCTTACCCATA
F: CTACGTCCAGATCTTCTATGAAAT
R: GGTACTTGTTTTGTCTGAGCTTA
F: CAAATCGTGCAGCCTCAATC
R: TTCCTCCATAGCAGGTACAAAC
F: GAAACTACAGGGTTCATGACTC
R: TTCCGTGTCTCTACATGCTATC
F: TGAAGATCCGGGACTGGTACCA
R: TGCAAAGTGAAGTGTGCATTCT
F: GGATGCGAATCTCCAAAAACAA
R: GTCAGAGCATCCAACATCTGTA

F: CCATTGTGAACATGAGTTATAGC

R: TTCATACCCAGTACAGAAGACC

F: CGCTTATTACCATACCATTGAGG

R: TTGGTACGGAAGTCATCGGC

F: GACCAGAGACCCAGAGATCAGAG

R: ACTTGTATTTGCAGTCGGCTC

F: GAGATGTTACAGAAAGTCACCA

R: TCCAGGATCATAGGGAAGTCTAAA

F: TTTTAGTACCTGCCACTTGGAC

R: TGTAGGGTGTAGGGATCATCTC

F: GAGTATCCCTGGATGAAGGAGA

R: GTTGGTGTACGCGGTTCTCAGA

F: TGAAGACAGCTCTGCTCGTC

R: GTAGAAGTTGGACGGGCAGA

F: GAGAGCCACGGACAAGTGGC

R: GGGAACTTCACATCACAGCTC

F: TCAGAAGGACTCCTATGTGG

R: TCTCTTTGATGTCACGCACG

Dataset S2. The gene sets corresponding to functional terms listed in Table 1.

Hypomethylated at E15 versus E18

GO:0006355~regulation of transcription, DNA-dependent
 GO:0048598~embryonic morphogenesis
 IPR001356:Homeobox
 GO:0007498~mesoderm development
 GO:0048732~gland development
 GO:0060429~epithelium development
 GO:0001568~blood vessel development
 GO:0007389~pattern specification process
 GO:0048666~neuron development
 GO:0045202~synapse
 GO:0003707~steroid hormone receptor activity
 IPR006210:EGF-like

Bmi1, Cbx4, Pax5, Ca:
 Bmi1, Hoxa13, Ctnnb1
 Tshz3, Irx3, Hoxa13, F
 Macf1, Hand1, Lhx2, F
 Plag1, Hoxa13, Ube3a
 9030409G11RIK, Vegf
 Vegfc, Chd7, Hoxa3, F
 Bmi1, Irx3, Ring1, Cel:
 Atp2b2, App, Efnb3, C
 Sept5, Grin2a, Cask, N
 Rxrb, Nr3c2, Nr4a2, N
 Ltbp4, Dll4, Fbn1, Tdg

Hypermethylated at E15 versus E18

GO:0008219~cell death
 keratin
 GO:0030855~epithelial cell differentiation
 GO:0006954~inflammatory response; GO:0009611~response to wounding
 domain:EGF-like

Ckap2, Prf1, Gulp1, F:
 Krt6a, Krtap3-2, Krt14,
 Krt6a, Psap, Ppl, Krt14
 Il1f8, Tnfsf4, Mefv, Sgr
 Hyal1, Prf1, Zan, Hspc

Up-regulated at E15 versus E18, E19, Adults

GO:0045202~synapse
 GO:0030182~neuron differentiation
 GO:0048666~neuron development
 GO:0005509~calcium ion binding
 IPR003598:Immunoglobulin subtype 2
 GO:0006816~calcium ion transport
 GO:0006355~regulation of transcription, DNA-dependent
 GO:0048562~embryonic organ morphogenesis
 GO:0007389~pattern specification process
 GO:0030855~epithelial cell differentiation
 developmental protein
 Homeobox

Syt1, Sept3, Gabrb3, S
 Gprin1, Gdf7, L1cam, I
 Gprin1, Gdf7, Rorb, L1
 Pdp1, Syt1, Cadm3, S
 Igdcc3, Cadm3, Cadm
 Slc8a3, Cacnb2, Grin3
 Rorb, Hoxd10, Pgr, Zf
 Fgf8, Hmx2, Tshz1, Fc
 Fgf8, Tshz1, Evx1, Fo:
 Onecut1, Foxa2, Ren2
 Hmx2, Stk36, Dzip1, L
 Isx, Pou6f1, Hmx2, Cr

Down-regulated at E15 versus E18, E19, Adults

immune response
 IPR013783:Immunoglobulin-like fold
 GO:0009913~epidermal cell differentiation
 GO:0030216~keratinocyte differentiation
 Apoptosis
 GO:0031012~extracellular matrix
 GO:0030414~peptidase inhibitor activity
 GO:0006954~inflammatory response
 GO:0009611~response to wounding
 keratin
 IPR013032:EGF-like region, conserved site

H2-D1, Tlr3, Tlr4, Tnfs
 Mpzl3, B430306n03rik
 Lor, Hnr, Gprc5d, Ptg:
 Lor, Hnr, Gprc5d, Ptg:
 Steap3, Htatip2, Rnf21
 Aspn, Ltbp3, Mmp23, I
 C3, Serpina12, Cd109
 Pparg, Tlr3, Tlr4, Tlr5,
 Ppara, F13a1, Pparg, I
 Krt20, Krt33a, Krt23, K
 Tyrp1, Nrg4, Ltbp2, Lt

Down-methylated and up-regulated at E15 versus E18

GO:0048562~embryonic organ morphogenesis

GO:0007389~pattern specification process

DNA-binding region:Homeobox

GO:0044456~synapse part

Bmi1, Atp2b2, Hoxb1,
Bmi1, Hoxb1, Hoxa3, I
Hoxb1, Hoxa3, Hoxa5,
Grin2a, Syt17, Homer2**Up-methylated and down-regulated at E15 versus E18**

cell junction

IPR013032:EGF-like region, conserved site

GO:0045095~keratin filament

Gabrr2, Cass4, Sorbs1
Hyal1, Tnfrsf9, Hspg2,
Krtap3-2, Krt14, Krt2, I

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sk, Zfp872, Ybx1, Cttnb1, App, Tdgf1, Nr2f6, Hsf4, Mll3, Nr2f2, Bhlhe41, Ss18l1, Rxrb, Mbc
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 , Fzd1, Wdr92
 , Ns1, Tpsb2
 , j2

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Id7, Tdgf1, Hoxb6, Foxc2, Sp8, Nr2f2, Tcf15, Sim2

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, Barhl2, Dll3, Prox1, Ctnna2, Nme5, Ascl1, Nav1, Reln, Dbn1, Uncx, Deaf1, Eid2, Tshz2, T , Onecut3, Onecut2, Meis1, Arx, Meis3, Hoxa2, Hoxa3, Meis2, Hoxa4, Hoxa5, Lhx1, Nkx1-

, Serpina3g, Lilrb4, Cd300lg, Cd300lf, H2-Aa, Tnfsf12-Tnfsf13, Clec5a, Cd300lb, Cd300ld, M Cd300lg, Vsig8, Cd300lf, Cd300lb, Cd300ld, Mill1, Il1r2, Il1r1, Tmigd1, Hfe, Fcgrt, Lrig3, Gr

Tns4, Tnfrsf10b, Serpina3g, Ripk1, Gadd45g, Trp73, Tnfsf12-Tnfsf13, Gsdma, Litaf, Tnfrsf ol3a1, Adamtsl5, Hsd17b12, Abi3bp, Trf, Ahsg, Smoc2, Lamb3, Col17a1, Lgals3bp, Col6a3 Vfdc12, Serpinb9, Serpina3n, Serpina3m, Serpinb6a, Serpina3h, Cst6, Serpinb5, Serpina3g , Ccr4, Trp73, Il1f8, C3, Cxcl9, Itgb2, C1s, Ccl7, Trf, Ahsg, Ccl24, Slc11a1, Tnfrsf1a, Serpin d163, Sigirr, C1qa, C1qb, Serpina3n, Thbd, Il20rb, Ccr4, F3, Trp73, Pros1, Il1f8, C3, Mst1, <rt14, Krt71 n1, Hspg2, Hyal4, Eph1, Gas6, Lama2, Lama4, Lama3, Thbd, Ereg, Sned1, Emr1, Stab1,

For Review Only

Mafg, Smad6, Creb1, Klf11, Nr4a2, Rybp, Nr4a1, Ski, Smad2, Tbx1, Celsr2, Tead3, Dlx6os

2a, Ophn1, Vamp2, Erc2, Doc2b, Unc13a, Cdk5r1, Rims2, Rims1, Rims4, Ephb2, Rims3, Sox2, Onecut2, Ephb1, Ephb2, Arx, Hoxa2, Crb1, Spnb4, Lhx1, Rac3, Lhx3, Lhx4, Lhx5, Nkx2-1, Klf7, Nr4a2, Celsr3, Evi1, Neurog2, Pcdh15, Sall3, Epha7, Sema6c, Dlx5, Ntrk2, 2610109h1, Doc2b, Cdk5r1, Cacnb2, Cacnb4, 6130401120rik, Caps2, Crb1, Crb2, Plch1, Efcab2, Pcdh1, Vcam1, Lingo2, Igsf11, Lingo1, Lingo4, Speg, Lrfn1, Lrfn5, Il1rap1, Lrfn3, Hapln4, Ptprd, Lrrc1d, Cacna1a, Cacna1b, C030039103rik, Csrnp3, Csrnp2, Dlx6, Dlx5, 9030624g23rik, Jazf1, Zik1, Zfhx2, Kcnh1, Evx1, Npy2, Hoxb9, Sp8, Syngap1, Uncx

Shz1, Adcyap1r1, Bex1, Myt1, Mdk, Meis1, Arx, Hoxa2, Hoxa3, B3gnt5, Hoxa4, Hoxa5, Lhx2, Hoxa6, Pou2f2, Lhx3, Pou3f4, Gbx2, Lhx4, Pou3f3, Gbx1, Lhx5, Pou3f2, Lhx9, Dbx1, Tlx

Mavs, Tnfaip8l2, Gpr183, Ifih1, Lst1, C3, Il4ra, Hfe, Nlrp1, Sp110, C1s, Cd74, Gp49a, Tap2, Gp49a, H2-T10, Csf1r, Fcgr1a, Havcr2, H2-Q2, Il1rl2, Fcgr4, Malt1, Fcgr1, Fcgr3, Gbe1, Cd27

12a, Adamtsl4, Egl3, Stk17b, Trib3, Rffl, Krt20, Sp110, Naip6, Tnfrsf1a, Prune2, Dapl1, Nck1, Tgm2, Col6a2, Adam33, Gm7455, Adamts12, Entpd1, Entpd2, Fn1, Lgals3, Fbn1, Col15a1, Serpinb8, Serpinb7, Serpinb2, Wfdc1, Wfdc5, Itga1a, Itgb6, Pycard, C2, Fn1, B4galt1, Selp, Cfb, Map2k3, Sphk1, Tlr13, Ephx2, Chi3l3, Fcgl1, Cxcl9, Ninj1, Itgb2, Pf4, C1s, Trf, Ccl7, Ahsg, Ccl24, Slc11a1, Tnfrsf1a, Anxa8, Procr, Serpin1, Lamc2, Sele, Pros1, Plau, Lrp4, Lrp5

For Review Only

1, Hoxb1, Ebf4, Dlx6, Hoxb5, Csrnp1, Hoxb6, Bcl6b, Jak3, Zfhx3

Ilc32a1, Gad2, Lfn1, Slc30a3, Gad1, Gabrq, Gabrp, Gpr156, Phactr1, Gabra2, Gabra1, Gac2-2, Dbx1, Klf7, Bhlhe22, Foxa1, Nr4a2, Celsr3, Pcdh15, Evi, Neurog2, Sall3, Ntrk3, Ephar2, J7rik, Chrnb2, Syngap1, Cacna1a, Myh10, Atf1, Uchl1, Pax6, Pou4f2, Pak1, Prrxl1, Rpgr, Mafk1, B4galt6, Cbx6-nptxr, Trpc1, Trpc4, Trpc3, Syt10, Trpc5, Syt11, Grin1, Pcdh10, Trpc7, Trpm2, Lrrn3, Nfasc, Ntrk2, Ntm

1, Foxa2, Crxos1, Evx2, A630033e08rik, Elf5, Gm5784, Kcnip3, Zfp354a, Foxb1, Zfp354b,

Klf1, Nkx1-2, Ndrp4, Hoxa6, Strbp, Olfm1, Nkx2-2, Dbx1, Dmbx1, Foxa1, Celsr3, Neurog2, Ndrp1, Nkx2-2, Dmbx1, Lmx1b, Vsx2, Pknox2, Hoxb1, Hoxb7, Hoxb8, Dlx6, Hoxb5, Dlx5, Hoxb6

Tap1, Cd4, C2, Inpp5d, Mr1, Tcfef, Dhx58, H2-Q2, H2-Q10, Irgm1, Cfb, Tlr13, H2-Ab1, Trif, H2-Eb1, H2-T22, H2-T23, H2-T24, Mertk, Mylk, Skint7, Skint8, Pilrb1, Mybpc2, Mybpc1,

Naip7, Dock1, Naip5, Tnfrsf18, Pycard, Zc3h12a, Xaf1, Inpp5d, Phlda3, Cflar, Lgals7, Cidea, Ndrp1, Ccdc80, Hspg2, Papln, Col5a3, Emilin2, Ecm2, Ecm1, Col4a6, Anxa2, Lama2, Vwf, Larr

r1, Fcgr3, Ccl11, Orm1, Ggt5, Ccl12, Cd55, Nupr1, Stab1, Cxcl13, C1rl, Il1f6, Cd14, Orm2, Il1na1a, Pou2f3, Itgb6, Pycard, C2, Entpd1, Scnn1b, Entpd2, Fn1, B4galt1, Ptpn6, Selp, Klk8,

For Review Only

bra4, Gabra3, Syt10, Syt11, Syt12, Grin1, Gabra5, Lin7c, Shank1, Shank2, Syng3, Lin7a, 7, Sema6c, Dlx5, Ntrk1, Ntrk2, 2610109h07rik, Chrnb2, Syngap1, Cacna1a, Myh10, Foxa2, Itap2, Stxbp1, Slit1, Gpr98, Bbs1, Nrl, Sema4f, Cntn4, Chl1, Gap43, Dcc, Rab3a, Cck, Abi2, Celsr3, Pcdh15, Cacna2d3, Pcdh17, P4htm, Cacna2d2, Clgn, Efhb, Cadps2, Hpca, 903062

Nr2f1, Csd2, Zfp354c, Mbd2, Zfp37, Brwd1, Kcnh6, Kcnh7, Kcnh8, Kcnh2, Kcnh4, Kcnh5,

eurog3, Ddx4, Sfrp5, Ntrk3, Sema6b, Hoxb1, Six6os1, Sema6c, Clgn, Ebf4, Hoxb7, Sema63, Pbx1, Hoxb9, Pbx3, Zfhx2, Pbx4

im25, Fcgr1, Psmb8, Psmb9, Ddx58, Cblb, Cd55, H2-Eb1, C1rl, H2-T23, Cd14, Igfbp7, H2-D1, Bcam, Nfkb2, Lsr, Ceacam19, 4632428n05rik, Cd200r4, Ceacam2, Ceacar

Birc3, Niacr1, Cidec, Plekhf1, Mef2d, Rassf5, Casp12, Slc5a8, Bre, Dram1, Lama3, Col14a1, Clec3b, Kazald1, Tgfbr3

, Plek, Cfb, Map2k3, Sphk1, Tlr13, Ephx2, Chi3l3, Fcgr1, Fcgr3, Ccl11, Vwf, Ggt5, Orm1, Ci

For Review Only

Cadps2, Ntrk2, Cyfip2, Chrb2, Syt17, Myh10, Clstn2, Glra1, Clstn3, Grip1, Glra3, Glra2, G
Evx1, Agtpbp1, Atf1, Uchl1, Pax6, Cdc42, Pou4f2, Pak1, Nrg1, Tubb3, Kcnma1, Prrxl1, Rp
, Cdh4, Lingo1, Gbx2, Etv1, Rtn4rl2, Dcx, Nefl, Dclk1, Apc, Lmx1b, Mcf2, Ptprz1, Ntng1, Dc
4g23rik, Cacna1g, Tll2, Cacna1c, Cacna1d, Cacna1a, Ppp2r3d, Cacna1b, Pcdha6, Pcdha7

Bc066028, Zfp316, Gbx2, Gbx1, Etv1, Tlx1, Lmx1b, Zfp57, Pknox2, Neurod1, Phf21a, Pbx

d, Hoxb8, Ebf3, Dlx6, Hoxb5, Dlx5, Ntrk1, Hoxb6, Ntrk2, 2610109h07rik, Hoxb9, Tll2, Mab2

n1, Cd200r1, Pilra, H2-K1, Pira11, Cilp, Btnl6, Nexn, Fcamr, Fcrls, Sigirr, Siglec1, Cd86, H2

cl12, Cd55, Nupr1, Stab1, Cxcl13, C1rl, Il1f6, Cd14, Orm2

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abbr1, Nbea, Gabbr2, Slc1a2, Snph, Dlg4, Sv2b, Sv2a, Nrg1, Sv2c, Dlg2, Kcnma1, Gabrg1, Mtap2, Stxbp1, Slit1, Gpr98, Bbs1, Nrl, Sema4f, Cntn4, Gap43, Chl1, Dcc, Rab3a, Cck, Nfasc, Ppp1r9a, Neurod2, Neurod4, Pbx3, Apbb1, Pcdha2, Clstn2, Clstn3, Pcdha4, Gm5784, Pcdha1, Kcnip2, Kcnip1, Kcnip4, Kcnip3, Mmp

1, Zfp60, Pbx3, Apbb1, Pbx4, Hmx2, Thra, Bc027344, Arnt2, Hoxd1, Zfp788, Gm10094, Zic

111, Mab21l2, Bmp8b, Zar1, Zfp41, Foxa2, Evx1, Evx2, Fgf9, Pax6, Pax5, Pax2, Amn, Pax

2-B1, Skint2, Bc055004, H2-Aa, Sema4b, Skint1, Skint6, Stbd1, Skint5, Skint4, Skint3, Cd24

For Review Only

, Anks1b, Gabrg2, Gabrg3, Svop, Stx1a, Nrnx2, Nrnx3, Rimbp2, Nrnx1, Grm1, Grm3, Myrip
Brsk2, Abi2, Brsk1, Cdh4, Lingo1, Gbx2, Pou3f4, Etv1, Rtn4rl2, Pou3f2, Dcx, Kndc1, Nefl, I
y24, Pcdh1, Pcp4, Proz, Caln1, Plcb1, Kcnma1, Pcdhb9, Pcdhb8, Trpm5, Pcdhb3, Cacng7,
:3, Zfp781, D930049a15rik, Hoxc4, Hoxc5, Olig1, Olig2, Ss18l1, Lbx1, Mta3, Pkia, Ascl1, Mi
1, Spem1, Lsm14b, Pax9, Pak3, Pax8, Piwil1, Zfp354a, Phc1, Kif2a, Prrxl1, Sox11, Dmrt3, I
4, Neo1, Myot, Rel, Myom2, Myom3, Speg, Mybph, Cd2, Tgm2, Cd4, Myom1, Mr1, Tgm5, /

For Review Only

, Chrm5, Grm2, Chrm4, Chrm3, Grm8, Chrm2, Sema4f, Otof, Grm7, Sez6, Gap43, Faim2, Ccl1, Tlx1, Apc, Dfna5, Lmx1b, Mcf2, Ptpn11, Ntng1, Nfasc, Dpysl5, Vsx2, Ppp1r9a, Neuro

Pcdh11x, Pcdhb4, Cacng5, Mmp17, Pcdh9, Mmp16, Pcdh8, Cacng3, Pcdh7, Cacng2, Nrxi

rx1, Smarca1, Eid2, Tshz2, Tshz1, Onecut1, Onecut3, Sox2, Onecut2, Zfp763, Meis1, Sox1

Morc1, Slit1, Dnase2a, Gpr98, Zfp37, Spdya, Fmn2, Myt1l, Eya2, Dact1, Sema4g, Sema4f,

Amica1, Tgm6, Nfatc2, Nfatc3, Tgm7, Nfatc1, Cd28, H2-Q10, H2-M9, Mpz, H2-M3, Alpk2, F

For Review Only

Rab3a, Rab3b, Cplx1, Rab3c, Atp6v1g2, Cdh2, Amph, Synpr, Syn1, Syn3, Syn2, Rasgrp2, d2, Id4, Neurod4, Pbx3, Apbb1

1, Slit1, Trpm2, Gpr98, Prkcb, Rab11fip4, Efhc2, Chga, Nptxr, Ppef1, Otof, Ncan, Spock3,

8, Lin28b, Zfp563, Wt1, Trim66, Meis3, Hoxa2, Hoxa3, Meis2, Hoxa4, Hoxa5, Hoxa6, Zfp15

Wnt9b, Ripply2, Gap43, Chl1, Dcc, Shroom2, Nnat, Adad1, Ctnnd2, Spata9, Lect1, Fat3, D

lspg2, Axl, Ctla4, H2-Ab1, Papln, Mxra8, Il6ra, Fcgr2b, Mypn, Kazald1

For Review Only

Camk2d, Htr3a, Snap25, Htr3b, Ica1, Dlgap1, Glrb, Dlgap

Tbc1d9, Spock2, Pcdhb15, Cabp7, Pcdhb14, Spock1, Pcdhb

i7, Hba-x, Dbx1, 1300003b13rik, Zfp248, Foxa1, Gr

ner, Odf4, Gpsm1, Pou3f3, Zfp521, Dcx, Dclk1, Tlx1, T

Dataset S3. The genomic coordinates of differentially methylated regions and associated

CHROMOSO	PEAK_START	PEAK_END	FEATURE_TR	FEATURE_ST	FEATURE_ST	FEATURE_EN	FEATURE_TC
<i>Hypomethylated</i>							
chr6	6813870	6813919	Primary Tran	-	6770545	6819533	-18855
chr6	6813965	6814014	Primary Tran	-	6770545	6819533	-18950
chr6	6814070	6814119	Primary Tran	-	6770545	6819533	-19055
chr6	6813870	6813919	Primary Tran	-	6813796	6815150	578
chr6	6813965	6814014	Primary Tran	-	6813796	6815150	483
chr6	6814070	6814119	Primary Tran	-	6813796	6815150	378
chr16	18622255	18622304	Primary Tran	-	18621903	18630031	3687
chr16	18622160	18622209	Primary Tran	-	18621903	18630031	3782
chr16	18622060	18622109	Primary Tran	-	18621903	18630031	3882
chr4	151500516	151500565	Primary Tran	-	151494984	151510434	2168
chr4	151500611	151500660	Primary Tran	-	151494984	151510434	2073
chr4	151503197	151503246	Primary Tran	-	151494984	151510434	-512
chr4	151503307	151503357	Primary Tran	-	151494984	151510434	-623
chr4	151503417	151503466	Primary Tran	-	151494984	151510434	-732
chr4	151503512	151503561	Primary Tran	-	151494984	151510434	-827
chr4	151503602	151503651	Primary Tran	-	151494984	151510434	-917
chr4	151503712	151503761	Primary Tran	-	151494984	151510434	-1027
chr4	151503117	151503166	Primary Tran	-	151494984	151510434	-432
chr4	151503802	151503851	Primary Tran	-	151494984	151510434	-1117
chr4	151500326	151500375	Primary Tran	-	151494984	151510434	2358
chr4	151500426	151500475	Primary Tran	-	151494984	151510434	2258
chr4	151500011	151500060	Primary Tran	-	151494984	151510434	2673
chr4	151500126	151500175	Primary Tran	-	151494984	151510434	2558
chr4	151500206	151500255	Primary Tran	-	151494984	151510434	2478
chr4	151500726	151500775	Primary Tran	-	151494984	151510434	1958
chr4	151500516	151500565	Primary Tran	-	151494984	151510434	2168
chr4	151500611	151500660	Primary Tran	-	151494984	151510434	2073
chr4	151503197	151503246	Primary Tran	-	151494984	151510434	-512
chr4	151503307	151503357	Primary Tran	-	151494984	151510434	-623
chr4	151503417	151503466	Primary Tran	-	151494984	151510434	-732
chr4	151503512	151503561	Primary Tran	-	151494984	151510434	-827
chr4	151503602	151503651	Primary Tran	-	151494984	151510434	-917
chr4	151503712	151503761	Primary Tran	-	151494984	151510434	-1027
chr4	151503117	151503166	Primary Tran	-	151494984	151510434	-432
chr4	151503802	151503851	Primary Tran	-	151494984	151510434	-1117
chr4	151500326	151500375	Primary Tran	-	151494984	151510434	2358
chr4	151500426	151500475	Primary Tran	-	151494984	151510434	2258
chr4	151500011	151500060	Primary Tran	-	151494984	151510434	2673
chr4	151500126	151500175	Primary Tran	-	151494984	151510434	2558
chr4	151500206	151500255	Primary Tran	-	151494984	151510434	2478
chr4	151500726	151500775	Primary Tran	-	151494984	151510434	1958
chr4	151500516	151500565	Primary Tran	-	151494984	151510434	2168
chr4	151500611	151500660	Primary Tran	-	151494984	151510434	2073
chr4	151503197	151503246	Primary Tran	-	151494984	151510434	-512
chr4	151503307	151503357	Primary Tran	-	151494984	151510434	-623
chr4	151503417	151503466	Primary Tran	-	151494984	151510434	-732
chr4	151503512	151503561	Primary Tran	-	151494984	151510434	-827

chr4	151503602	151503651	Primary Tran	-	151494984	151510434	-917
chr4	151503712	151503761	Primary Tran	-	151494984	151510434	-1027
chr4	151503117	151503166	Primary Tran	-	151494984	151510434	-432
chr4	151503802	151503851	Primary Tran	-	151494984	151510434	-1117
chr4	151500326	151500375	Primary Tran	-	151494984	151510434	2358
chr4	151500426	151500475	Primary Tran	-	151494984	151510434	2258
chr4	151500011	151500060	Primary Tran	-	151494984	151510434	2673
chr4	151500126	151500175	Primary Tran	-	151494984	151510434	2558
chr4	151500206	151500255	Primary Tran	-	151494984	151510434	2478
chr4	151500726	151500775	Primary Tran	-	151494984	151510434	1958
chr4	151500516	151500565	Primary Tran	-	151494984	151510434	2168
chr4	151500611	151500660	Primary Tran	-	151494984	151510434	2073
chr4	151503197	151503246	Primary Tran	-	151494984	151510434	-512
chr4	151503307	151503357	Primary Tran	-	151494984	151510434	-623
chr4	151503417	151503466	Primary Tran	-	151494984	151510434	-732
chr4	151503512	151503561	Primary Tran	-	151494984	151510434	-827
chr4	151503602	151503651	Primary Tran	-	151494984	151510434	-917
chr4	151503712	151503761	Primary Tran	-	151494984	151510434	-1027
chr4	151503117	151503166	Primary Tran	-	151494984	151510434	-432
chr4	151503802	151503851	Primary Tran	-	151494984	151510434	-1117
chr4	151500326	151500375	Primary Tran	-	151494984	151510434	2358
chr4	151500426	151500475	Primary Tran	-	151494984	151510434	2258
chr4	151500011	151500060	Primary Tran	-	151494984	151510434	2673
chr4	151500126	151500175	Primary Tran	-	151494984	151510434	2558
chr4	151500206	151500255	Primary Tran	-	151494984	151510434	2478
chr4	151500726	151500775	Primary Tran	-	151494984	151510434	1958
chr4	151500516	151500565	Primary Tran	-	151494984	151526316	10109
chr4	151500611	151500660	Primary Tran	-	151494984	151526316	10014
chr4	151503197	151503246	Primary Tran	-	151494984	151526316	7428
chr4	151503307	151503357	Primary Tran	-	151494984	151526316	7318
chr4	151503417	151503466	Primary Tran	-	151494984	151526316	7208
chr4	151503512	151503561	Primary Tran	-	151494984	151526316	7113
chr4	151503602	151503651	Primary Tran	-	151494984	151526316	7023
chr4	151503712	151503761	Primary Tran	-	151494984	151526316	6913
chr4	151503117	151503166	Primary Tran	-	151494984	151526316	7508
chr4	151503802	151503851	Primary Tran	-	151494984	151526316	6823
chr4	151500326	151500375	Primary Tran	-	151494984	151526316	10299
chr4	151512725	151512774	Primary Tran	-	151494984	151526316	-2099
chr4	151500426	151500475	Primary Tran	-	151494984	151526316	10199
chr4	151500011	151500060	Primary Tran	-	151494984	151526316	10614
chr4	151500126	151500175	Primary Tran	-	151494984	151526316	10499
chr4	151500206	151500255	Primary Tran	-	151494984	151526316	10419
chr4	151500726	151500775	Primary Tran	-	151494984	151526316	9899
chr4	151512630	151512679	Primary Tran	-	151494984	151526316	-2004
chr8	123057898	123057947	Primary Tran	+	123012765	123105281	-1100
chr8	123057998	123058047	Primary Tran	+	123012765	123105281	-1000
chr8	123058098	123058147	Primary Tran	+	123012765	123105281	-900
chr8	123058203	123058252	Primary Tran	+	123012765	123105281	-795
chr9	21000730	21000779	Primary Tran	+	20970157	21017692	6830
chr9	21000830	21000879	Primary Tran	+	20970157	21017692	6930
chr9	21000920	21000969	Primary Tran	+	20970157	21017692	7020
chr7	77505576	77505625	Primary Tran	-	77496835	77511632	-1367
chr7	77505686	77505735	Primary Tran	-	77496835	77511632	-1477

chr7	77503164	77503213	Primary Tran	-	77496835	77511632	1045
chr7	77503239	77503288	Primary Tran	-	77496835	77511632	970
chr8	73907816	73907865	Primary Tran	-	73908172	73919700	6095
chr8	73907591	73907640	Primary Tran	-	73908172	73919700	6320
chr8	73907691	73907740	Primary Tran	-	73908172	73919700	6220
chr8	73907901	73907950	Primary Tran	-	73908172	73919700	6010
chr9	107896824	107896873	Primary Tran	+	107885423	107897338	5468
chr9	107896934	107896986	Primary Tran	+	107885423	107897338	5579
chr9	107897034	107897083	Primary Tran	+	107885423	107897338	5678
chr9	107897134	107897183	Primary Tran	+	107885423	107897338	5778
chr9	107896734	107896795	Primary Tran	+	107885423	107897338	5384
chr12	120088310	120088359	Primary Tran	+	120086028	120091049	-204
chr12	120088110	120088159	Primary Tran	+	120086028	120091049	-404
chr12	120087905	120087954	Primary Tran	+	120086028	120091049	-609
chr6	88792389	88792438	Primary Tran	-	88792551	88824038	15881
chr6	88792589	88792638	Primary Tran	-	88792551	88824038	15681
chr6	88792514	88792563	Primary Tran	-	88792551	88824038	15756
chr6	88792289	88792338	Primary Tran	-	88792551	88824038	15981
chr7	28119749	28119798	Primary Tran	-	28090159	28122631	-13378
chr7	28119639	28119688	Primary Tran	-	28090159	28122631	-13268
chr7	28119836	28119885	Primary Tran	-	28090159	28122631	-13465
chr7	90018405	90018454	Primary Tran	+	90015842	90020086	465
chr7	90018525	90018574	Primary Tran	+	90015842	90020086	585
chr7	90018190	90018239	Primary Tran	+	90015842	90020086	250
chr7	90018300	90018349	Primary Tran	+	90015842	90020086	360
chr8	107996647	107996696	Primary Tran	-	107996324	108020770	11875
chr8	107996537	107996586	Primary Tran	-	107996324	108020770	11985
chr8	107996352	107996401	Primary Tran	-	107996324	108020770	12170
chr8	107996452	107996501	Primary Tran	-	107996324	108020770	12070
chr7	17396775	17396824	Primary Tran	-	17394615	17402081	1548
chr7	17396885	17396934	Primary Tran	-	17394615	17402081	1438
chr7	17396180	17396229	Primary Tran	-	17394615	17402081	2143
chr7	17397080	17397129	Primary Tran	-	17394615	17402081	1243
chr7	17396080	17396129	Primary Tran	-	17394615	17402081	2243
chr9	44541988	44542037	Primary Tran	-	44494390	44543277	-23179
chr9	44541768	44541817	Primary Tran	-	44494390	44543277	-22959
chr9	44516570	44516619	Primary Tran	-	44494390	44543277	2239
chr9	44516690	44516739	Primary Tran	-	44494390	44543277	2119
chr9	44541883	44541932	Primary Tran	-	44494390	44543277	-23074
chr9	44516490	44516539	Primary Tran	-	44494390	44543277	2319
chr2	151799384	151799433	Primary Tran	-	151795133	151805955	1135
chr2	151799274	151799323	Primary Tran	-	151795133	151805955	1244
chr2	151799184	151799233	Primary Tran	-	151795133	151805955	1335
chr2	151799479	151799528	Primary Tran	-	151795133	151805955	1040
chr2	151799089	151799138	Primary Tran	-	151795133	151805955	1430
chr11	29725838	29725897	Primary Tran	-	29643050	29926033	58674
chr11	29725918	29725967	Primary Tran	-	29643050	29926033	58599
chr11	29726966	29727015	Primary Tran	-	29643050	29926033	57551
chr15	78240971	78241020	Primary Tran	+	78237533	78244440	9
chr15	78240661	78240710	Primary Tran	+	78237533	78244440	-301
chr15	78240761	78240810	Primary Tran	+	78237533	78244440	-201
chr15	78240866	78240915	Primary Tran	+	78237533	78244440	-96
chr15	78241071	78241120	Primary Tran	+	78237533	78244440	109

chr18	15220385	15220434	Primary Tran	-	15127194	15309955	-1835
chr18	15220465	15220514	Primary Tran	-	15127194	15309955	-1915
chr18	15220790	15220839	Primary Tran	-	15127194	15309955	-2240
chr18	15220890	15220939	Primary Tran	-	15127194	15309955	-2340
chr18	15220675	15220724	Primary Tran	-	15127194	15309955	-2125
chr4	40215299	40215348	Primary Tran	-	40206638	40216874	-3567
chr4	40215389	40215438	Primary Tran	-	40206638	40216874	-3657
chr4	40215189	40215238	Primary Tran	-	40206638	40216874	-3457
chr17	27238850	27238899	Primary Tran	+	27194248	27259168	12166
chr17	27238950	27238999	Primary Tran	+	27194248	27259168	12266
chr17	27239065	27239114	Primary Tran	+	27194248	27259168	12381
chr17	27239165	27239214	Primary Tran	+	27194248	27259168	12481
chr17	27239270	27239320	Primary Tran	+	27194248	27259168	12587
chr17	27239350	27239407	Primary Tran	+	27194248	27259168	12670
chr17	27239470	27239520	Primary Tran	+	27194248	27259168	12787
chr3	55586698	55586747	Primary Tran	-	55429119	55987623	121648
chr3	55586818	55586867	Primary Tran	-	55429119	55987623	121528
chr3	55586913	55586962	Primary Tran	-	55429119	55987623	121433
chr3	55587013	55587062	Primary Tran	-	55429119	55987623	121333
chr3	55587113	55587162	Primary Tran	-	55429119	55987623	121233
chr3	55587213	55587262	Primary Tran	-	55429119	55987623	121133
chr3	55586498	55586553	Primary Tran	-	55429119	55987623	121845
chr3	55586618	55586667	Primary Tran	-	55429119	55987623	121728
chr8	107802789	107802839	Primary Tran	+	107800346	107805839	-278
chr8	107802899	107802948	Primary Tran	+	107800346	107805839	-169
chr8	107802994	107803043	Primary Tran	+	107800346	107805839	-74
chr8	107802689	107802738	Primary Tran	+	107800346	107805839	-379
chr8	107803109	107803158	Primary Tran	+	107800346	107805839	41
chr9	21795385	21795434	Primary Tran	-	21794315	21807078	5287
chr9	21795080	21795129	Primary Tran	-	21794315	21807078	5592
chr9	21795205	21795254	Primary Tran	-	21794315	21807078	5467
chr9	21795305	21795354	Primary Tran	-	21794315	21807078	5367
chr7	112784294	112784343	Primary Tran	-	112782715	112788930	1504
chr7	112783974	112784023	Primary Tran	-	112782715	112788930	1824
chr7	112784079	112784128	Primary Tran	-	112782715	112788930	1719
chr7	112784184	112784233	Primary Tran	-	112782715	112788930	1614
chr13	36061037	36061086	Primary Tran	+	36059774	36062251	49
chr13	36060817	36060866	Primary Tran	+	36059774	36062251	-171
chr13	36060917	36060966	Primary Tran	+	36059774	36062251	-71
chr12	112661905	112661954	Primary Tran	+	112655640	112669394	-587
chr12	112661685	112661734	Primary Tran	+	112655640	112669394	-807
chr12	112662010	112662059	Primary Tran	+	112655640	112669394	-482
chr12	112662085	112662134	Primary Tran	+	112655640	112669394	-407
chr12	112661810	112661859	Primary Tran	+	112655640	112669394	-682
chr10	80826961	80827010	Primary Tran	+	80820314	80826780	3438
chr10	80827041	80827090	Primary Tran	+	80820314	80826780	3518
chr10	80827346	80827395	Primary Tran	+	80820314	80826780	3823
chr9	107803852	107803901	Primary Tran	+	107790512	107805456	5892
chr9	107803932	107803981	Primary Tran	+	107790512	107805456	5972
chr9	107803732	107803781	Primary Tran	+	107790512	107805456	5772
chr9	107804037	107804086	Primary Tran	+	107790512	107805456	6077
chr9	107804232	107804281	Primary Tran	+	107790512	107805456	6272
chr9	107803647	107803696	Primary Tran	+	107790512	107805456	5687

chr9	107804132	107804181	Primary Tran	+	107790512	107805456	6172
chr17	46811964	46812013	Primary Tran	-	46811502	46817853	2689
chr17	46812064	46812113	Primary Tran	-	46811502	46817853	2589
chr17	46812144	46812193	Primary Tran	-	46811502	46817853	2509
chr17	46812264	46812316	Primary Tran	-	46811502	46817853	2387
chr4	148265215	148265264	Primary Tran	+	148178500	148319239	16370
chr4	148265315	148265364	Primary Tran	+	148178500	148319239	16470
chr4	148265400	148265449	Primary Tran	+	148178500	148319239	16555
chr4	148265515	148265564	Primary Tran	+	148178500	148319239	16670
chr4	148265120	148265169	Primary Tran	+	148178500	148319239	16275
chr4	148265615	148265664	Primary Tran	+	148178500	148319239	16770
chr4	148265010	148265059	Primary Tran	+	148178500	148319239	16165
chr4	116926755	116926804	Primary Tran	+	116924593	116941185	-6109
chr4	116926875	116926924	Primary Tran	+	116924593	116941185	-5989
chr4	116926980	116927029	Primary Tran	+	116924593	116941185	-5884
chr4	116927080	116927129	Primary Tran	+	116924593	116941185	-5784
chr4	116927160	116927209	Primary Tran	+	116924593	116941185	-5704
chr4	116926655	116926704	Primary Tran	+	116924593	116941185	-6209
chr4	116927265	116927314	Primary Tran	+	116924593	116941185	-5599
chr4	116926535	116926584	Primary Tran	+	116924593	116941185	-6329
chr2	29701172	29701221	Primary Tran	+	29682908	29700516	9484
chr2	29701272	29701321	Primary Tran	+	29682908	29700516	9584
chr2	29701357	29701406	Primary Tran	+	29682908	29700516	9669
chr2	29700972	29701021	Primary Tran	+	29682908	29700516	9284
chr2	29701062	29701111	Primary Tran	+	29682908	29700516	9374
chr2	29701457	29701506	Primary Tran	+	29682908	29700516	9769
chr10	79804435	79804484	Primary Tran	-	79805483	79811157	3860
chr10	79804530	79804579	Primary Tran	-	79805483	79811157	3765
chr10	79804620	79804669	Primary Tran	-	79805483	79811157	3675
chr10	79804720	79804769	Primary Tran	-	79805483	79811157	3575
chr10	79805325	79805374	Primary Tran	-	79805483	79811157	2970
chr10	79805415	79805464	Primary Tran	-	79805483	79811157	2880
chr10	79804835	79804884	Primary Tran	-	79805483	79811157	3460
chr10	79804925	79804974	Primary Tran	-	79805483	79811157	3370
chr10	79805035	79805084	Primary Tran	-	79805483	79811157	3260
chr10	79805135	79805184	Primary Tran	-	79805483	79811157	3160
chr10	79805235	79805284	Primary Tran	-	79805483	79811157	3060
chr10	79805720	79805769	Primary Tran	-	79805483	79811157	2575
chr10	79805525	79805574	Primary Tran	-	79805483	79811157	2770
chr6	145811680	145811729	Primary Tran	-	145811256	145813860	853
chr6	145811775	145811824	Primary Tran	-	145811256	145813860	758
chr6	145811585	145811634	Primary Tran	-	145811256	145813860	948
chr6	145811485	145811534	Primary Tran	-	145811256	145813860	1048
chr6	145811880	145811929	Primary Tran	-	145811256	145813860	653
chr14	56445516	56445565	Primary Tran	+	56443844	56452780	-2771
chr14	56445616	56445665	Primary Tran	+	56443844	56452780	-2671
chr14	56445216	56445265	Primary Tran	+	56443844	56452780	-3071
chr14	56445316	56445365	Primary Tran	+	56443844	56452780	-2971
chr17	28489452	28489501	Primary Tran	-	28488463	28502088	5799
chr17	28489342	28489391	Primary Tran	-	28488463	28502088	5909
chr17	28489247	28489296	Primary Tran	-	28488463	28502088	6004
chr17	28489152	28489201	Primary Tran	-	28488463	28502088	6099
chr7	4103135	4103184	Primary Tran	-	4102861	4116301	6421

chr7	4102920	4102969	Primary Tran	-	4102861	4116301	6636
chr7	4103035	4103084	Primary Tran	-	4102861	4116301	6521
chr7	4102820	4102869	Primary Tran	-	4102861	4116301	6736
chr7	4102725	4102785	Primary Tran	-	4102861	4116301	6826
chr15	89388497	89388546	Primary Tran	+	89330287	89388754	29001
chr15	89388602	89388651	Primary Tran	+	89330287	89388754	29106
chr15	89388692	89388741	Primary Tran	+	89330287	89388754	29196
chr15	89388877	89388926	Primary Tran	+	89330287	89388754	29381
chr15	89388802	89388851	Primary Tran	+	89330287	89388754	29306
chr11	103060760	103060809	Primary Tran	+	103032451	103060214	14452
chr11	103060855	103060904	Primary Tran	+	103032451	103060214	14547
chr11	103060965	103061014	Primary Tran	+	103032451	103060214	14657
chr4	151500516	151500565	Primary Tran	-	151494984	151503034	-1531
chr4	151500611	151500660	Primary Tran	-	151494984	151503034	-1626
chr4	151500326	151500375	Primary Tran	-	151494984	151503034	-1341
chr4	151500426	151500475	Primary Tran	-	151494984	151503034	-1441
chr4	151500011	151500060	Primary Tran	-	151494984	151503034	-1026
chr4	151500126	151500175	Primary Tran	-	151494984	151503034	-1141
chr4	151500206	151500255	Primary Tran	-	151494984	151503034	-1221
chr4	151500726	151500775	Primary Tran	-	151494984	151503034	-1741
chrX	34729102	34729151	Primary Tran	-	34727583	34731233	281
chrX	34729177	34729237	Primary Tran	-	34727583	34731233	201
chrX	34729002	34729060	Primary Tran	-	34727583	34731233	377
chr11	97396272	97396321	Primary Tran	-	97370653	97436440	7250
chr11	97396087	97396136	Primary Tran	-	97370653	97436440	7435
chr11	97413433	97413482	Primary Tran	-	97370653	97436440	-9911
chr11	97395992	97396041	Primary Tran	-	97370653	97436440	7530
chr11	97396382	97396431	Primary Tran	-	97370653	97436440	7140
chr11	97396182	97396231	Primary Tran	-	97370653	97436440	7340
chr11	97413533	97413582	Primary Tran	-	97370653	97436440	-10011
chr8	107792238	107792287	Primary Tran	+	107788637	107793225	1331
chr8	107792148	107792197	Primary Tran	+	107788637	107793225	1241
chr8	107791223	107791272	Primary Tran	+	107788637	107793225	316
chr8	107791318	107791368	Primary Tran	+	107788637	107793225	412
chr8	107791848	107791903	Primary Tran	+	107788637	107793225	944
chr8	107791943	107791992	Primary Tran	+	107788637	107793225	1036
chr8	107792048	107792097	Primary Tran	+	107788637	107793225	1141
chr8	107793533	107793582	Primary Tran	+	107788637	107793225	2626
chr8	107792348	107792397	Primary Tran	+	107788637	107793225	1441
chr8	107792448	107792497	Primary Tran	+	107788637	107793225	1541
chr8	107791103	107791161	Primary Tran	+	107788637	107793225	201
chr8	107791553	107791609	Primary Tran	+	107788637	107793225	650
chr8	107791473	107791522	Primary Tran	+	107788637	107793225	566
chr8	107791658	107791707	Primary Tran	+	107788637	107793225	751
chr15	103153697	103153746	Primary Tran	-	103144325	103170517	3699
chr15	103153802	103153851	Primary Tran	-	103144325	103170517	3594
chr15	103153904	103153953	Primary Tran	-	103144325	103170517	3492
chr15	103153999	103154048	Primary Tran	-	103144325	103170517	3397
chr2	56964117	56964166	Primary Tran	-	56959637	56967449	-598
chr2	56964232	56964281	Primary Tran	-	56959637	56967449	-713
chr2	56964327	56964376	Primary Tran	-	56959637	56967449	-808
chr2	56964417	56964466	Primary Tran	-	56959637	56967449	-898
chr2	56964012	56964061	Primary Tran	-	56959637	56967449	-493

chr8	123641551	123641600	Primary Tran	+	123640070	123642794	143
chr8	123641636	123641685	Primary Tran	+	123640070	123642794	228
chr8	123641241	123641290	Primary Tran	+	123640070	123642794	-166
chr16	18582698	18582747	Primary Tran	-	18581805	18587062	1711
chr16	18582593	18582642	Primary Tran	-	18581805	18587062	1816
chr16	18582793	18582842	Primary Tran	-	18581805	18587062	1616
chr11	112646732	112646781	Primary Tran	+	112643523	112649071	459
chr11	112646617	112646666	Primary Tran	+	112643523	112649071	344
chr11	112646532	112646581	Primary Tran	+	112643523	112649071	259
chr19	5654500	5654549	Primary Tran	-	5651193	5663620	2882
chr19	5654605	5654654	Primary Tran	-	5651193	5663620	2777
chr19	5654395	5654445	Primary Tran	-	5651193	5663620	2986
chr19	5654690	5654739	Primary Tran	-	5651193	5663620	2692
chr19	5654810	5654859	Primary Tran	-	5651193	5663620	2572
chr19	5654310	5654359	Primary Tran	-	5651193	5663620	3072
chr19	5654910	5654959	Primary Tran	-	5651193	5663620	2472
chr19	5654200	5654249	Primary Tran	-	5651193	5663620	3182
chr19	5654090	5654139	Primary Tran	-	5651193	5663620	3292
chr16	94347088	94347137	Primary Tran	+	94085504	94348638	130041
chr16	94347198	94347247	Primary Tran	+	94085504	94348638	130151
chr16	94347003	94347052	Primary Tran	+	94085504	94348638	129956
chr2	90955934	90955983	Primary Tran	+	90936953	90955913	9525
chr2	90956029	90956078	Primary Tran	+	90936953	90955913	9620
chr2	90956159	90956210	Primary Tran	+	90936953	90955913	9751
chr4	155386688	155386738	Primary Tran	+	155367022	155387719	9342
chr4	155386074	155386123	Primary Tran	+	155367022	155387719	8728
chr4	155386169	155386218	Primary Tran	+	155367022	155387719	8823
chr4	155386269	155386318	Primary Tran	+	155367022	155387719	8923
chr4	155386383	155386432	Primary Tran	+	155367022	155387719	9037
chr4	155386493	155386542	Primary Tran	+	155367022	155387719	9147
chr4	155386568	155386617	Primary Tran	+	155367022	155387719	9222
chr8	87308541	87308590	Primary Tran	-	87231497	87324239	-30697
chr8	87308641	87308690	Primary Tran	-	87231497	87324239	-30797
chr8	87308431	87308480	Primary Tran	-	87231497	87324239	-30587
chr8	87240485	87240534	Primary Tran	-	87231497	87324239	37358
chr15	76499365	76499414	Primary Tran	+	76491070	76498626	4541
chr15	76499250	76499299	Primary Tran	+	76491070	76498626	4426
chr15	76499155	76499204	Primary Tran	+	76491070	76498626	4331
chr8	74203537	74203586	Primary Tran	+	74202227	74214473	-4788
chr8	74203622	74203671	Primary Tran	+	74202227	74214473	-4703
chr8	74209974	74210023	Primary Tran	+	74202227	74214473	1648
chr2	74585129	74585178	Primary Tran	+	74550049	74586328	16965
chr2	74584849	74584898	Primary Tran	+	74550049	74586328	16685
chr2	74584949	74584998	Primary Tran	+	74550049	74586328	16785
chr2	74584734	74584783	Primary Tran	+	74550049	74586328	16570
chr2	74584649	74584698	Primary Tran	+	74550049	74586328	16485
chr6	52153080	52153129	Primary Tran	-	52151752	52154586	64
chr6	52152980	52153029	Primary Tran	-	52151752	52154586	164
chr6	52152880	52152929	Primary Tran	-	52151752	52154586	264
chr6	52152790	52152839	Primary Tran	-	52151752	52154586	354
chr6	52152600	52152651	Primary Tran	-	52151752	52154586	543
chr6	52152700	52152749	Primary Tran	-	52151752	52154586	444
chr6	52151174	52151227	Primary Tran	-	52151752	52154586	1968

chr6	52151269	52151324	Primary Tran	-	52151752	52154586	1872
chr6	52151060	52151111	Primary Tran	-	52151752	52154586	2083
chr6	52150953	52151013	Primary Tran	-	52151752	52154586	2186
chr6	52153400	52153449	Primary Tran	-	52151752	52154586	-255
chr6	52153480	52153529	Primary Tran	-	52151752	52154586	-335
chr6	52152385	52152448	Primary Tran	-	52151752	52154586	752
chr6	52152500	52152549	Primary Tran	-	52151752	52154586	644
chr6	52150753	52150810	Primary Tran	-	52151752	52154586	2387
chr6	52150873	52150924	Primary Tran	-	52151752	52154586	2270
chr7	52095644	52095693	Primary Tran	+	52091658	52096179	1750
chr7	52095239	52095288	Primary Tran	+	52091658	52096179	1345
chr7	52095339	52095388	Primary Tran	+	52091658	52096179	1445
chr6	113841031	113841080	Primary Tran	-	113695661	113992020	2785
chr6	113840731	113840780	Primary Tran	-	113695661	113992020	3085
chr6	113840931	113840980	Primary Tran	-	113695661	113992020	2885
chr6	113840631	113840680	Primary Tran	-	113695661	113992020	3185
chr6	113840851	113840900	Primary Tran	-	113695661	113992020	2965
chr3	89144708	89144757	Primary Tran	-	89143561	89153932	4014
chr3	89144808	89144857	Primary Tran	-	89143561	89153932	3914
chr3	89144893	89144942	Primary Tran	-	89143561	89153932	3829
chr4	123341608	123341657	Primary Tran	-	123026958	123361603	-147352
chr4	123341708	123341757	Primary Tran	-	123026958	123361603	-147452
chr4	123341818	123341867	Primary Tran	-	123026958	123361603	-147562
chr4	123341508	123341557	Primary Tran	-	123026958	123361603	-147252
chr4	123341308	123341357	Primary Tran	-	123026958	123361603	-147052
chr8	124860332	124860381	Primary Tran	+	124806040	124861147	26763
chr8	124860142	124860191	Primary Tran	+	124806040	124861147	26573
chr8	124860227	124860276	Primary Tran	+	124806040	124861147	26658
chr8	124860032	124860081	Primary Tran	+	124806040	124861147	26463
chr4	44716910	44716959	Primary Tran	-	44544377	44723312	-83090
chr4	44717020	44717069	Primary Tran	-	44544377	44723312	-83200
chr4	44716805	44716854	Primary Tran	-	44544377	44723312	-82985
chr13	100285096	100285145	Primary Tran	-	100191418	100286557	-46133
chr13	100285206	100285255	Primary Tran	-	100191418	100286557	-46243
chr13	100285286	100285335	Primary Tran	-	100191418	100286557	-46323
chr13	100285409	100285458	Primary Tran	-	100191418	100286557	-46446
chr11	96162270	96162319	Primary Tran	+	96160484	96162883	611
chr11	96162165	96162214	Primary Tran	+	96160484	96162883	506
chr11	96162065	96162114	Primary Tran	+	96160484	96162883	406
chr11	96163779	96163828	Primary Tran	+	96160484	96162883	2120
chr11	96163565	96163616	Primary Tran	+	96160484	96162883	1907
chr11	96163689	96163738	Primary Tran	+	96160484	96162883	2030
chr11	96163475	96163524	Primary Tran	+	96160484	96162883	1816
chr11	96163365	96163414	Primary Tran	+	96160484	96162883	1706
chr17	34164785	34164834	Primary Tran	-	34165210	34168635	2113
chr17	34164890	34164939	Primary Tran	-	34165210	34168635	2008
chr17	34164710	34164759	Primary Tran	-	34165210	34168635	2188
chr7	53088621	53088670	Primary Tran	-	53087852	53122051	16306
chr7	53088721	53088770	Primary Tran	-	53087852	53122051	16206
chr7	53088821	53088870	Primary Tran	-	53087852	53122051	16106
chr7	53088941	53088990	Primary Tran	-	53087852	53122051	15986
chr5	108297570	108297619	Primary Tran	-	108173813	108304126	-58625
chr5	108297690	108297739	Primary Tran	-	108173813	108304126	-58745

chr5	108297970	108298019	Primary Tran	-	108173813	108304126	-59025
chr5	108297770	108297819	Primary Tran	-	108173813	108304126	-58825
chr5	108297875	108297924	Primary Tran	-	108173813	108304126	-58930
chr1	75385169	75385218	Primary Tran	+	75371871	75428881	-15182
chr1	75385264	75385313	Primary Tran	+	75371871	75428881	-15087
chr1	75385064	75385113	Primary Tran	+	75371871	75428881	-15287
chr1	75384979	75385028	Primary Tran	+	75371871	75428881	-15372
chr1	75419777	75419826	Primary Tran	+	75371871	75428881	19425
chr1	75385369	75385418	Primary Tran	+	75371871	75428881	-14982
chr7	20263139	20263188	Primary Tran	-	20263442	20266765	1940
chr7	20263224	20263273	Primary Tran	-	20263442	20266765	1855
chr7	20263044	20263093	Primary Tran	-	20263442	20266765	2035
chr4	148265215	148265264	Primary Tran	+	148178500	148329001	11489
chr4	148265315	148265364	Primary Tran	+	148178500	148329001	11589
chr4	148265400	148265449	Primary Tran	+	148178500	148329001	11674
chr4	148265515	148265564	Primary Tran	+	148178500	148329001	11789
chr4	148265120	148265169	Primary Tran	+	148178500	148329001	11394
chr4	148265615	148265664	Primary Tran	+	148178500	148329001	11889
chr4	148265010	148265059	Primary Tran	+	148178500	148329001	11284
chr4	148326417	148326466	Primary Tran	+	148178500	148329001	72691
chr4	148326497	148326546	Primary Tran	+	148178500	148329001	72771
chr7	108598356	108598405	Primary Tran	+	108570211	108661340	-17395
chr7	108598461	108598510	Primary Tran	+	108570211	108661340	-17290
chr7	108598576	108598625	Primary Tran	+	108570211	108661340	-17175
chr6	113342917	113342966	Primary Tran	+	113339253	113349442	-1406
chr6	113343012	113343061	Primary Tran	+	113339253	113349442	-1311
chr6	113342705	113342754	Primary Tran	+	113339253	113349442	-1618
chr6	113343117	113343166	Primary Tran	+	113339253	113349442	-1206
chr6	113343217	113343272	Primary Tran	+	113339253	113349442	-1103
chr18	15220385	15220434	Primary Tran	-	15127194	15222091	-45767
chr18	15220465	15220514	Primary Tran	-	15127194	15222091	-45847
chr18	15220790	15220839	Primary Tran	-	15127194	15222091	-46172
chr18	15220890	15220939	Primary Tran	-	15127194	15222091	-46272
chr18	15220675	15220724	Primary Tran	-	15127194	15222091	-46057
chr2	56964117	56964166	Primary Tran	-	56959637	56976414	3884
chr2	56964232	56964281	Primary Tran	-	56959637	56976414	3769
chr2	56964327	56964376	Primary Tran	-	56959637	56976414	3674
chr2	56964417	56964466	Primary Tran	-	56959637	56976414	3584
chr2	56964012	56964061	Primary Tran	-	56959637	56976414	3989
chr6	51494307	51494363	Primary Tran	+	51473901	51540669	-12950
chr6	51494392	51494443	Primary Tran	+	51473901	51540669	-12867
chr6	51494611	51494660	Primary Tran	+	51473901	51540669	-12649
chr6	51494931	51494980	Primary Tran	+	51473901	51540669	-12329
chr10	79804235	79804284	Primary Tran	-	79803460	79811191	3066
chr10	79804115	79804164	Primary Tran	-	79803460	79811191	3186
chr10	79804315	79804364	Primary Tran	-	79803460	79811191	2986
chr10	79804435	79804484	Primary Tran	-	79803460	79811191	2866
chr10	79804530	79804579	Primary Tran	-	79803460	79811191	2771
chr10	79804620	79804669	Primary Tran	-	79803460	79811191	2681
chr10	79804720	79804769	Primary Tran	-	79803460	79811191	2581
chr10	79804015	79804064	Primary Tran	-	79803460	79811191	3286
chr10	79805325	79805374	Primary Tran	-	79803460	79811191	1976
chr10	79805415	79805464	Primary Tran	-	79803460	79811191	1886

chr10	79804835	79804884	Primary Tran	-	79803460	79811191	2466
chr10	79804925	79804974	Primary Tran	-	79803460	79811191	2376
chr10	79805035	79805084	Primary Tran	-	79803460	79811191	2266
chr10	79805135	79805184	Primary Tran	-	79803460	79811191	2166
chr10	79805235	79805284	Primary Tran	-	79803460	79811191	2066
chr10	79803930	79803979	Primary Tran	-	79803460	79811191	3371
chr10	79805720	79805769	Primary Tran	-	79803460	79811191	1581
chr10	79805525	79805574	Primary Tran	-	79803460	79811191	1776
chr2	130187747	130187796	Primary Tran	+	130121674	130196217	28826
chr2	130187862	130187911	Primary Tran	+	130121674	130196217	28941
chr2	130187962	130188011	Primary Tran	+	130121674	130196217	29041
chr8	28089395	28089444	Primary Tran	+	28087807	28091934	-451
chr8	28089485	28089534	Primary Tran	+	28087807	28091934	-361
chr8	28089590	28089639	Primary Tran	+	28087807	28091934	-256
chr8	28089690	28089739	Primary Tran	+	28087807	28091934	-156
chr8	28089775	28089824	Primary Tran	+	28087807	28091934	-71
chr8	28089895	28089944	Primary Tran	+	28087807	28091934	49
chr8	28089975	28090024	Primary Tran	+	28087807	28091934	129
chr8	28090380	28090429	Primary Tran	+	28087807	28091934	534
chr4	141766502	141766551	Primary Tran	-	141695154	141795316	-21291
chr4	141766287	141766336	Primary Tran	-	141695154	141795316	-21076
chr4	141766407	141766456	Primary Tran	-	141695154	141795316	-21196
chr4	141766192	141766241	Primary Tran	-	141695154	141795316	-20981
chr7	25413791	25413840	Primary Tran	+	25396346	25414316	8484
chr7	25414170	25414219	Primary Tran	+	25396346	25414316	8863
chr7	25414280	25414336	Primary Tran	+	25396346	25414316	8977
chr8	28089395	28089444	Primary Tran	+	28087807	28091934	-451
chr8	28089485	28089534	Primary Tran	+	28087807	28091934	-361
chr8	28089590	28089639	Primary Tran	+	28087807	28091934	-256
chr8	28089690	28089739	Primary Tran	+	28087807	28091934	-156
chr8	28089775	28089824	Primary Tran	+	28087807	28091934	-71
chr8	28089895	28089944	Primary Tran	+	28087807	28091934	49
chr8	28089975	28090024	Primary Tran	+	28087807	28091934	129
chr8	28090380	28090429	Primary Tran	+	28087807	28091934	534
chr1	75385169	75385218	Primary Tran	+	75378688	75401140	-4720
chr1	75385264	75385313	Primary Tran	+	75378688	75401140	-4625
chr1	75385064	75385113	Primary Tran	+	75378688	75401140	-4825
chr1	75384979	75385028	Primary Tran	+	75378688	75401140	-4910
chr1	75385369	75385418	Primary Tran	+	75378688	75401140	-4520
chr1	75385169	75385218	Primary Tran	+	75382184	75428879	-20338
chr1	75385264	75385313	Primary Tran	+	75382184	75428879	-20243
chr1	75385064	75385113	Primary Tran	+	75382184	75428879	-20443
chr1	75384979	75385028	Primary Tran	+	75382184	75428879	-20528
chr1	75419777	75419826	Primary Tran	+	75382184	75428879	14270
chr1	75385369	75385418	Primary Tran	+	75382184	75428879	-20138
chr8	87308541	87308590	Primary Tran	-	87231497	87324239	-30697
chr8	87308641	87308690	Primary Tran	-	87231497	87324239	-30797
chr8	87308431	87308480	Primary Tran	-	87231497	87324239	-30587
chr8	87240485	87240534	Primary Tran	-	87231497	87324239	37358
chr8	107874032	107874081	Primary Tran	+	107872157	107893781	-8912
chr8	107873947	107873998	Primary Tran	+	107872157	107893781	-8996
chr8	107873827	107873876	Primary Tran	+	107872157	107893781	-9117
chr8	107873622	107873671	Primary Tran	+	107872157	107893781	-9322

chr5	111848664	111848713	Primary Tran	+	111847185	111886045	-17926
chr5	111848784	111848833	Primary Tran	+	111847185	111886045	-17806
chr5	111848899	111848948	Primary Tran	+	111847185	111886045	-17691
chr5	111848369	111848418	Primary Tran	+	111847185	111886045	-18221
chr5	111848474	111848523	Primary Tran	+	111847185	111886045	-18116
chr5	111848564	111848613	Primary Tran	+	111847185	111886045	-18026
chr1	182262931	182262980	Primary Tran	+	182260606	182353790	-44242
chr1	182263022	182263071	Primary Tran	+	182260606	182353790	-44151
chr1	182263142	182263191	Primary Tran	+	182260606	182353790	-44031
chr1	182263242	182263291	Primary Tran	+	182260606	182353790	-43931
chr1	182263322	182263371	Primary Tran	+	182260606	182353790	-43851
chr1	182263437	182263486	Primary Tran	+	182260606	182353790	-43736
chr1	182262731	182262780	Primary Tran	+	182260606	182353790	-44442
chr1	182262841	182262890	Primary Tran	+	182260606	182353790	-44332
chr1	182263542	182263591	Primary Tran	+	182260606	182353790	-43631
chr1	182263637	182263686	Primary Tran	+	182260606	182353790	-43536
chr17	34164785	34164834	Primary Tran	-	34165210	34168635	2113
chr17	34164890	34164939	Primary Tran	-	34165210	34168635	2008
chr17	34164710	34164759	Primary Tran	-	34165210	34168635	2188
chr11	103060760	103060809	Primary Tran	+	103032451	103060214	14452
chr11	103060855	103060904	Primary Tran	+	103032451	103060214	14547
chr11	103060965	103061014	Primary Tran	+	103032451	103060214	14657
chr7	52095644	52095693	Primary Tran	-	52096145	52104449	4628
chr7	52095239	52095288	Primary Tran	-	52096145	52104449	5033
chr7	52095339	52095388	Primary Tran	-	52096145	52104449	4933
chr8	4206428	4206477	Primary Tran	+	4166566	4208046	19146
chr8	4206523	4206572	Primary Tran	+	4166566	4208046	19241
chr8	4206613	4206662	Primary Tran	+	4166566	4208046	19331
chr8	4206718	4206767	Primary Tran	+	4166566	4208046	19436
chr8	4206318	4206367	Primary Tran	+	4166566	4208046	19036
chr8	4206233	4206282	Primary Tran	+	4166566	4208046	18951
chr8	4206833	4206882	Primary Tran	+	4166566	4208046	19551
chr3	89144708	89144757	Primary Tran	-	89143561	89153932	4014
chr3	89144808	89144857	Primary Tran	-	89143561	89153932	3914
chr3	89144893	89144942	Primary Tran	-	89143561	89153932	3829
chr11	69211657	69211706	Primary Tran	-	69212019	69227177	7916
chr11	69211757	69211806	Primary Tran	-	69212019	69227177	7816
chr11	69211862	69211911	Primary Tran	-	69212019	69227177	7711
chr11	69211957	69212006	Primary Tran	-	69212019	69227177	7616
chr10	80826961	80827010	Primary Tran	-	80826768	80828565	681
chr10	80827041	80827090	Primary Tran	-	80826768	80828565	601
chr10	80827346	80827395	Primary Tran	-	80826768	80828565	296
chr17	45682461	45682510	Primary Tran	-	45678900	45686626	277
chr17	45682266	45682315	Primary Tran	-	45678900	45686626	472
chr17	45682356	45682405	Primary Tran	-	45678900	45686626	382
chr7	108598356	108598405	Primary Tran	+	108570211	108661340	-17395
chr7	108598461	108598510	Primary Tran	+	108570211	108661340	-17290
chr7	108598576	108598625	Primary Tran	+	108570211	108661340	-17175
chr1	174485400	174485449	transcription	+	174490036	174490036	-4611
chr1	174485085	174485134	transcription	+	174490036	174490036	-4926
chr1	174485200	174485249	transcription	+	174490036	174490036	-4811
chr1	174485305	174485354	transcription	+	174490036	174490036	-4706
chr7	108598356	108598405	transcription	+	108599821	108599821	-1440

chr7	108598461	108598510	transcription	+	108599821	108599821	-1335
chr7	108598576	108598625	transcription	+	108599821	108599821	-1220
chr13	59870953	59871002	transcription	+	59871326	59871326	-348
chr13	59871048	59871097	transcription	+	59871326	59871326	-253
chr13	59870848	59870897	transcription	+	59871326	59871326	-453
chr1	182262931	182262980	transcription	-	182260680	182260680	-2275
chr1	182263022	182263071	transcription	-	182260680	182260680	-2366
chr1	182263142	182263191	transcription	-	182260680	182260680	-2486
chr1	182263242	182263291	transcription	-	182260680	182260680	-2586
chr1	182263322	182263371	transcription	-	182260680	182260680	-2666
chr1	182263437	182263486	transcription	-	182260680	182260680	-2781
chr1	182262731	182262780	transcription	-	182260680	182260680	-2075
chr1	182262841	182262890	transcription	-	182260680	182260680	-2185
chr1	182263542	182263591	transcription	-	182260680	182260680	-2886
chr1	182263637	182263686	transcription	-	182260680	182260680	-2981
chr8	112486138	112486187	transcription	-	112486068	112486068	-94
chr8	112485748	112485797	transcription	-	112486068	112486068	295
chr8	112485928	112485977	transcription	-	112486068	112486068	115
chr8	112486028	112486077	transcription	-	112486068	112486068	15
chr8	112485828	112485877	transcription	-	112486068	112486068	215
chr8	112485643	112485692	transcription	-	112486068	112486068	400
chr4	151526178	151526227	transcription	-	151526316	151526316	113
chr4	151526393	151526442	transcription	-	151526316	151526316	-101
chr4	151526293	151526342	transcription	-	151526316	151526316	-1
chr11	105829219	105829268	transcription	+	105829260	105829260	-16
chr11	105829109	105829158	transcription	+	105829260	105829260	-126
chr11	105829324	105829373	transcription	+	105829260	105829260	88
chr3	151929921	151929970	transcription	-	151929219	151929219	-726
chr3	151930016	151930065	transcription	-	151929219	151929219	-821
chr3	151930326	151930375	transcription	-	151929219	151929219	-1131
chr8	127421858	127421907	transcription	-	127421605	127421605	-277
chr8	127421973	127422022	transcription	-	127421605	127421605	-392
chr8	127421653	127421702	transcription	-	127421605	127421605	-72
chr11	97010311	97010360	transcription	-	97011026	97011026	690
chr11	97012691	97012740	transcription	-	97011026	97011026	-1689
chr11	97012590	97012639	transcription	-	97011026	97011026	-1588
chr11	97012390	97012439	transcription	-	97011026	97011026	-1388
chr11	97012505	97012554	transcription	-	97011026	97011026	-1503
chr5	90795220	90795269	transcription	-	90795211	90795211	-33
chr5	90795125	90795174	transcription	-	90795211	90795211	61
chr5	90795440	90795489	transcription	-	90795211	90795211	-253
chr7	31648003	31648052	transcription	-	31646489	31646489	-1538
chr7	31648123	31648172	transcription	-	31646489	31646489	-1658
chr7	31648213	31648262	transcription	-	31646489	31646489	-1748
chr7	31648323	31648372	transcription	-	31646489	31646489	-1858
chr7	31648408	31648457	transcription	-	31646489	31646489	-1943
chr7	77512919	77512976	transcription	-	77511632	77511632	-1315
chr7	77512824	77512873	transcription	-	77511632	77511632	-1216
chr7	77513034	77513083	transcription	-	77511632	77511632	-1426
chr5	100588233	100588282	transcription	-	100588827	100588827	569
chr5	100588338	100588387	transcription	-	100588827	100588827	464
chr5	100588462	100588511	transcription	-	100588827	100588827	340
chr5	100587933	100587982	transcription	-	100588827	100588827	869

chr5	100588657	100588706	transcription	-	100588827	100588827	145
chr5	100588987	100589037	transcription	-	100588827	100588827	-185
chr4	3865722	3865771	transcription	+	3866060	3866060	-313
chr4	3865822	3865871	transcription	+	3866060	3866060	-213
chr4	3866022	3866071	transcription	+	3866060	3866060	-13
chr4	3865912	3865961	transcription	+	3866060	3866060	-123
chr8	107781594	107781643	transcription	-	107779051	107779051	-2567
chr8	107781674	107781724	transcription	-	107779051	107779051	-2648
chr8	107779643	107779693	transcription	-	107779051	107779051	-617
chr2	179777453	179777502	transcription	+	179777213	179777213	264
chr2	179777538	179777587	transcription	+	179777213	179777213	349
chr2	179777653	179777702	transcription	+	179777213	179777213	464
chr13	14046731	14046780	transcription	+	14046940	14046940	-184
chr13	14046836	14046885	transcription	+	14046940	14046940	-79
chr13	14047051	14047100	transcription	+	14046940	14046940	135
chr11	98845110	98845159	transcription	-	98844330	98844330	-804
chr11	98845025	98845074	transcription	-	98844330	98844330	-719
chr11	98844915	98844964	transcription	-	98844330	98844330	-609
chr11	98845210	98845259	transcription	-	98844330	98844330	-904
chr11	98844825	98844874	transcription	-	98844330	98844330	-519
chr11	98844725	98844774	transcription	-	98844330	98844330	-419
chr11	98844006	98844055	transcription	-	98844330	98844330	299
chr11	98844101	98844150	transcription	-	98844330	98844330	204
chr8	41508942	41508991	transcription	+	41509168	41509168	-201
chr8	41509042	41509091	transcription	+	41509168	41509168	-101
chr8	41509137	41509186	transcription	+	41509168	41509168	-6
chr12	25336349	25336398	transcription	+	25336138	25336138	235
chr12	25336739	25336788	transcription	+	25336138	25336138	625
chr12	25336549	25336598	transcription	+	25336138	25336138	435
chr12	25336834	25336883	transcription	+	25336138	25336138	720
chr12	25334744	25334793	transcription	+	25336138	25336138	-1369
chr1	174484705	174484756	transcription	+	174486068	174486068	-1337
chr1	174484805	174484854	transcription	+	174486068	174486068	-1238
chr1	174484890	174484939	transcription	+	174486068	174486068	-1153
chr1	174484985	174485034	transcription	+	174486068	174486068	-1058
chr1	174485400	174485449	transcription	+	174486068	174486068	-643
chr1	174485085	174485134	transcription	+	174486068	174486068	-958
chr1	174485200	174485249	transcription	+	174486068	174486068	-843
chr1	174485305	174485354	transcription	+	174486068	174486068	-738
chr8	107874032	107874081	transcription	-	107871831	107871831	-2225
chr8	107873947	107873996	transcription	-	107871831	107871831	-2141
chr8	107873827	107873876	transcription	-	107871831	107871831	-2020
chr8	107873622	107873671	transcription	-	107871831	107871831	-1815
chr2	158056887	158056936	transcription	-	158054958	158054958	-1953
chr2	158056777	158056826	transcription	-	158054958	158054958	-1843
chr2	158057017	158057066	transcription	-	158054958	158054958	-2083
chr2	158057112	158057161	transcription	-	158054958	158054958	-2178
chr2	158057197	158057246	transcription	-	158054958	158054958	-2263
chr18	61083515	61083564	transcription	+	61085285	61085285	-1745
chr18	61083625	61083674	transcription	+	61085285	61085285	-1633
chr18	61083036	61083085	transcription	+	61085285	61085285	-2224
chr18	61083136	61083185	transcription	+	61085285	61085285	-2123
chr10	8240730	8240779	transcription	-	8238623	8238623	-2131

chr10	8240650	8240699	transcription	-	8238623	8238623	-2051
chr10	8240445	8240494	transcription	-	8238623	8238623	-1846
chr10	8240535	8240585	transcription	-	8238623	8238623	-1937
chr10	8240340	8240389	transcription	-	8238623	8238623	-1741
chr10	8238424	8238473	transcription	-	8238623	8238623	174
chr10	8238509	8238558	transcription	-	8238623	8238623	89
chr3	84469324	84469373	transcription	+	84470113	84470113	-764
chr3	84469419	84469471	transcription	+	84470113	84470113	-668
chr3	84469204	84469253	transcription	+	84470113	84470113	-884
chr3	84469104	84469153	transcription	+	84470113	84470113	-984
chr5	122734596	122734645	transcription	+	122734406	122734406	214
chr5	122734698	122734747	transcription	+	122734406	122734406	316
chr5	122734496	122734545	transcription	+	122734406	122734406	114
chr9	86360802	86360851	transcription	+	86360760	86360760	66
chr9	86360902	86360951	transcription	+	86360760	86360760	166
chr9	86360997	86361046	transcription	+	86360760	86360760	261
chr9	86361087	86361136	transcription	+	86360760	86360760	351
chr9	40965338	40965387	transcription	-	40965577	40965577	214
chr9	40965438	40965487	transcription	-	40965577	40965577	114
chr9	40965538	40965587	transcription	-	40965577	40965577	14
chr11	29725838	29725897	transcription	-	29725668	29725668	-199
chr11	29725918	29725967	transcription	-	29725668	29725668	-274
chr11	29726966	29727015	transcription	-	29725668	29725668	-1322
chr9	51573350	51573399	transcription	+	51573456	51573456	-81
chr9	51573755	51573804	transcription	+	51573456	51573456	323
chr9	51573250	51573299	transcription	+	51573456	51573456	-181
chr7	4103135	4103184	transcription	-	4101474	4101474	-1685
chr7	4102920	4102969	transcription	-	4101474	4101474	-1470
chr7	4103035	4103084	transcription	-	4101474	4101474	-1585
chr7	4102820	4102869	transcription	-	4101474	4101474	-1370
chr7	4102725	4102785	transcription	-	4101474	4101474	-1281
chr19	7491616	7491665	transcription	+	7492114	7492114	-473
chr19	7491506	7491555	transcription	+	7492114	7492114	-583
chr19	7491421	7491470	transcription	+	7492114	7492114	-668
chr19	7491306	7491355	transcription	+	7492114	7492114	-783
chr11	97489988	97490037	transcription	-	97491030	97491030	1017
chr11	97490888	97490937	transcription	-	97491030	97491030	117
chr11	97490273	97490322	transcription	-	97491030	97491030	732
chr11	97490493	97490542	transcription	-	97491030	97491030	512
chr11	97490188	97490237	transcription	-	97491030	97491030	817
chr11	97490073	97490122	transcription	-	97491030	97491030	932
chr11	97490378	97490427	transcription	-	97491030	97491030	627
chr15	98593402	98593451	transcription	-	98592483	98592483	-943
chr15	98593212	98593261	transcription	-	98592483	98592483	-753
chr15	98593297	98593346	transcription	-	98592483	98592483	-838
chr15	98593497	98593546	transcription	-	98592483	98592483	-1038
chr2	33742930	33742979	transcription	-	33743466	33743466	511
chr2	33742810	33742859	transcription	-	33743466	33743466	631
chr2	33743020	33743069	transcription	-	33743466	33743466	421
chr2	33742725	33742774	transcription	-	33743466	33743466	716
chr13	19040462	19040511	transcription	+	19040239	19040239	247
chr13	19040277	19040326	transcription	+	19040239	19040239	62
chr13	19040377	19040426	transcription	+	19040239	19040239	162

chr13	19040157	19040206	transcription	+	19040239	19040239	-57
chr7	66484644	66484693	transcription	+	66484119	66484119	549
chr7	66484744	66484793	transcription	+	66484119	66484119	649
chr7	66484234	66484283	transcription	+	66484119	66484119	139
chr19	40905762	40905811	transcription	+	40905768	40905768	18
chr19	40905862	40905911	transcription	+	40905768	40905768	118
chr19	40905682	40905731	transcription	+	40905768	40905768	-61
chr19	40905977	40906026	transcription	+	40905768	40905768	233
chr19	40906077	40906126	transcription	+	40905768	40905768	333
chr13	9093278	9093327	transcription	+	9093150	9093150	152
chr13	9093188	9093237	transcription	+	9093150	9093150	62
chr13	9093066	9093115	transcription	+	9093150	9093150	-59
chr13	9093383	9093432	transcription	+	9093150	9093150	257
chr13	9093575	9093624	transcription	+	9093150	9093150	449
chr4	59819034	59819083	transcription	+	59818521	59818521	537
chr4	59819134	59819183	transcription	+	59818521	59818521	637
chr4	59818714	59818763	transcription	+	59818521	59818521	217
chr4	59818629	59818678	transcription	+	59818521	59818521	132
chr7	37480703	37480752	transcription	+	37483136	37483136	-2408
chr7	37481903	37481952	transcription	+	37483136	37483136	-1208
chr7	37482006	37482055	transcription	+	37483136	37483136	-1105
chr7	37482101	37482150	transcription	+	37483136	37483136	-1010
chr7	37482215	37482264	transcription	+	37483136	37483136	-896
chr11	94383035	94383084	transcription	-	94382816	94382816	-243
chr11	94383150	94383199	transcription	-	94382816	94382816	-358
chr11	94382935	94382984	transcription	-	94382816	94382816	-143
chr11	94382645	94382694	transcription	-	94382816	94382816	146
chr11	94382750	94382799	transcription	-	94382816	94382816	41
chr11	94382835	94382884	transcription	-	94382816	94382816	-43
chr11	94383275	94383331	transcription	-	94382816	94382816	-487
chr2	118606075	118606124	transcription	+	118605653	118605653	446
chr2	118605970	118606019	transcription	+	118605653	118605653	341
chr2	118605790	118605841	transcription	+	118605653	118605653	162
chr2	118605870	118605919	transcription	+	118605653	118605653	241
chr6	72187482	72187531	transcription	-	72185571	72185571	-1935
chr6	72187577	72187626	transcription	-	72185571	72185571	-2030
chr6	72187392	72187448	transcription	-	72185571	72185571	-1849
chr6	72187182	72187231	transcription	-	72185571	72185571	-1635
chr6	72187282	72187331	transcription	-	72185571	72185571	-1735
chr6	72187072	72187121	transcription	-	72185571	72185571	-1525
chrX	34729102	34729151	transcription	+	34731337	34731337	-2210
chrX	34729177	34729237	transcription	+	34731337	34731337	-2130
chrX	34729002	34729060	transcription	+	34731337	34731337	-2306
chr7	53088621	53088670	transcription	-	53086159	53086159	-2486
chr7	53088721	53088770	transcription	-	53086159	53086159	-2586
chr7	53088821	53088870	transcription	-	53086159	53086159	-2686
chr7	53088941	53088990	transcription	-	53086159	53086159	-2806
chr9	119893217	119893266	transcription	-	119893776	119893776	534
chr9	119893307	119893356	transcription	-	119893776	119893776	444
chr9	119893397	119893446	transcription	-	119893776	119893776	354
chr9	119893495	119893544	transcription	-	119893776	119893776	256
chr9	119893600	119893649	transcription	-	119893776	119893776	151
chr9	119893695	119893744	transcription	-	119893776	119893776	56

chr9	119893795	119893844	transcription	-	119893776	119893776	-43
chr3	122322444	122322493	transcription	-	122322585	122322585	116
chr3	122322339	122322388	transcription	-	122322585	122322585	221
chr3	122322524	122322573	transcription	-	122322585	122322585	36
chr17	31432083	31432132	transcription	+	31432427	31432427	-319
chr17	31433387	31433436	transcription	+	31432427	31432427	984
chr17	31432168	31432217	transcription	+	31432427	31432427	-234
chr9	21142386	21142435	transcription	+	21142295	21142295	115
chr9	21142491	21142540	transcription	+	21142295	21142295	220
chr9	21142601	21142650	transcription	+	21142295	21142295	330
chr2	180196047	180196096	transcription	+	180195682	180195682	389
chr2	180195772	180195821	transcription	+	180195682	180195682	114
chr2	180196162	180196211	transcription	+	180195682	180195682	504
chr2	180196347	180196396	transcription	+	180195682	180195682	689
chr5	114250162	114250211	transcription	-	114250361	114250361	174
chr5	114250247	114250296	transcription	-	114250361	114250361	89
chr5	114250357	114250406	transcription	-	114250361	114250361	-20
chr4	98590941	98590990	transcription	+	98590500	98590500	465
chr4	98590541	98590590	transcription	+	98590500	98590500	65
chr4	98591161	98591213	transcription	+	98590500	98590500	687
chr2	131317730	131317779	transcription	+	131317678	131317678	76
chr2	131318235	131318284	transcription	+	131317678	131317678	581
chr2	131318320	131318369	transcription	+	131317678	131317678	666
chr15	88693288	88693337	transcription	+	88692623	88692623	689
chr15	88693398	88693447	transcription	+	88692623	88692623	799
chr15	88692913	88692962	transcription	+	88692623	88692623	314
chr15	88693098	88693147	transcription	+	88692623	88692623	499
chr15	88693488	88693537	transcription	+	88692623	88692623	889
chr15	88693213	88693262	transcription	+	88692623	88692623	614
chr13	108679960	108680009	transcription	-	108680258	108680258	273
chr13	108679845	108679894	transcription	-	108680258	108680258	388
chr13	108679265	108679314	transcription	-	108680258	108680258	968
chr13	108679350	108679399	transcription	-	108680258	108680258	883
chr13	108679445	108679494	transcription	-	108680258	108680258	788
chr13	108679550	108679599	transcription	-	108680258	108680258	683
chr13	108680085	108680134	transcription	-	108680258	108680258	148
chr13	108679755	108679804	transcription	-	108680258	108680258	478
chr13	108679645	108679694	transcription	-	108680258	108680258	588
chr13	108681466	108681515	transcription	-	108680258	108680258	-1232
chr1	137180336	137180385	transcription	-	137180661	137180661	300
chr1	137180031	137180080	transcription	-	137180661	137180661	605
chr1	137180421	137180470	transcription	-	137180661	137180661	215
chr17	47830881	47830930	transcription	+	47832155	47832155	-1249
chr17	47830791	47830840	transcription	+	47832155	47832155	-1339
chr17	47830680	47830729	transcription	+	47832155	47832155	-1450
chr17	46811964	46812013	transcription	-	46811204	46811204	-784
chr17	46812064	46812113	transcription	-	46811204	46811204	-884
chr17	46812144	46812193	transcription	-	46811204	46811204	-964
chr17	46812264	46812316	transcription	-	46811204	46811204	-1086
chr15	75920606	75920655	transcription	-	75920443	75920443	-187
chr15	75920506	75920555	transcription	-	75920443	75920443	-87
chr15	75920716	75920765	transcription	-	75920443	75920443	-297
chr15	75922113	75922162	transcription	-	75920443	75920443	-1694



chr4	141766502	141766551	transcription	-	141766123	141766123	-403
chr4	141766287	141766336	transcription	-	141766123	141766123	-188
chr4	141766407	141766456	transcription	-	141766123	141766123	-308
chr4	141766192	141766241	transcription	-	141766123	141766123	-93
chr2	30271329	30271378	transcription	+	30271569	30271569	-215
chr2	30271414	30271463	transcription	+	30271569	30271569	-130
chr2	30271509	30271558	transcription	+	30271569	30271569	-35
chr7	125589128	125589177	transcription	-	125587066	125587066	-2086
chr7	125588940	125588989	transcription	-	125587066	125587066	-1898
chr7	125589038	125589087	transcription	-	125587066	125587066	-1996
chr7	125588850	125588907	transcription	-	125587066	125587066	-1812
chr1	34065930	34065979	transcription	+	34068669	34068669	-2714
chr1	34065810	34065859	transcription	+	34068669	34068669	-2834
chr1	34066134	34066183	transcription	+	34068669	34068669	-2510
chr1	34068353	34068402	transcription	+	34068669	34068669	-291
chr1	34065730	34065779	transcription	+	34068669	34068669	-2914
chr1	34066025	34066081	transcription	+	34068669	34068669	-2616
chr6	113342917	113342966	transcription	+	113342490	113342490	451
chr6	113343012	113343061	transcription	+	113342490	113342490	546
chr6	113342705	113342754	transcription	+	113342490	113342490	239
chr6	113343117	113343166	transcription	+	113342490	113342490	651
chr6	113343217	113343272	transcription	+	113342490	113342490	754
chr1	34065930	34065979	transcription	+	34068669	34068669	-2714
chr1	34065810	34065859	transcription	+	34068669	34068669	-2834
chr1	34066134	34066183	transcription	+	34068669	34068669	-2510
chr1	34068353	34068402	transcription	+	34068669	34068669	-291
chr1	34065730	34065779	transcription	+	34068669	34068669	-2914
chr1	34066025	34066081	transcription	+	34068669	34068669	-2616
chr1	64579933	64579982	transcription	+	64579377	64579377	580
chr1	64579323	64579372	transcription	+	64579377	64579377	-29
chr1	64579438	64579487	transcription	+	64579377	64579377	85
chr1	64579533	64579582	transcription	+	64579377	64579377	180
chr1	64579818	64579867	transcription	+	64579377	64579377	465
chr7	17396775	17396824	transcription	+	17401655	17401655	-4855
chr7	17396885	17396934	transcription	+	17401655	17401655	-4745
chr7	17397080	17397129	transcription	+	17401655	17401655	-4550
chr19	6118069	6118118	transcription	-	6118586	6118586	492
chr19	6117969	6118018	transcription	-	6118586	6118586	592
chr19	6118169	6118218	transcription	-	6118586	6118586	392
chr2	29103531	29103580	transcription	-	29103560	29103560	4
chr2	29103626	29103675	transcription	-	29103560	29103560	-90
chr2	29104036	29104085	transcription	-	29103560	29103560	-500
chr2	29103531	29103580	transcription	-	29103560	29103560	4
chr2	29103626	29103675	transcription	-	29103560	29103560	-90
chr2	29104036	29104085	transcription	-	29103560	29103560	-500
chr12	104479631	104479680	transcription	-	104480356	104480356	700
chr12	104480316	104480365	transcription	-	104480356	104480356	15
chr12	104479816	104479865	transcription	-	104480356	104480356	515
chr15	76354025	76354074	transcription	-	76352559	76352559	-1490
chr15	76354120	76354169	transcription	-	76352559	76352559	-1585
chr15	76354240	76354289	transcription	-	76352559	76352559	-1705
chr15	76354340	76354389	transcription	-	76352559	76352559	-1805
chr15	76353720	76353769	transcription	-	76352559	76352559	-1185

chrX	132130804	132130853	transcription	-	132128394	132128394	-2434
chrX	132130924	132130973	transcription	-	132128394	132128394	-2554
chrX	132131029	132131078	transcription	-	132128394	132128394	-2659
chr2	79475535	79475584	transcription	+	79475581	79475581	-21
chr2	79475730	79475779	transcription	+	79475581	79475581	173
chr2	79475435	79475484	transcription	+	79475581	79475581	-121
chr14	122506590	122506639	transcription	+	122506303	122506303	311
chr14	122506370	122506419	transcription	+	122506303	122506303	91
chr14	122506680	122506729	transcription	+	122506303	122506303	401
chr14	122506790	122506839	transcription	+	122506303	122506303	511
chr5	150819068	150819121	transcription	+	150821249	150821249	-2154
chr5	150819178	150819235	transcription	+	150821249	150821249	-2042
chr5	150819283	150819341	transcription	+	150821249	150821249	-1937
chr5	150819368	150819417	transcription	+	150821249	150821249	-1856
chr1	153191995	153192044	transcription	+	153191627	153191627	392
chr1	153192100	153192149	transcription	+	153191627	153191627	497
chr1	153191810	153191859	transcription	+	153191627	153191627	207
chr10	107769609	107769658	transcription	+	107769244	107769244	389
chr10	107769414	107769463	transcription	+	107769244	107769244	194
chr10	107769524	107769573	transcription	+	107769244	107769244	304
chr10	107769314	107769363	transcription	+	107769244	107769244	94
chr12	106103148	106103197	transcription	-	106103286	106103286	113
chr12	106103068	106103117	transcription	-	106103286	106103286	193
chr12	106103248	106103297	transcription	-	106103286	106103286	13
chr12	106103366	106103415	transcription	-	106103286	106103286	-104
chr19	43763587	43763643	transcription	+	43764314	43764314	-699
chr19	43763687	43763739	transcription	+	43764314	43764314	-601
chr19	43763782	43763840	transcription	+	43764314	43764314	-503
chr19	43763902	43763951	transcription	+	43764314	43764314	-387
chr19	43763987	43764036	transcription	+	43764314	43764314	-302
chr19	43764092	43764141	transcription	+	43764314	43764314	-197
chr4	107474928	107474977	transcription	+	107474863	107474863	89
chr4	107474838	107474887	transcription	+	107474863	107474863	0
chr4	107474728	107474777	transcription	+	107474863	107474863	-110
chr15	76499365	76499414	transcription	+	76502109	76502109	-2719
chr15	76499250	76499299	transcription	+	76502109	76502109	-2834
chr15	76499155	76499204	transcription	+	76502109	76502109	-2929
chr5	137959599	137959648	transcription	+	137960107	137960107	-483
chr5	137959719	137959768	transcription	+	137960107	137960107	-363
chr5	137959094	137959150	transcription	+	137960107	137960107	-985
chr5	137959204	137959255	transcription	+	137960107	137960107	-877
chr5	137959299	137959348	transcription	+	137960107	137960107	-783
chr5	137959399	137959448	transcription	+	137960107	137960107	-683
chr5	137959519	137959568	transcription	+	137960107	137960107	-563
chr5	90795220	90795269	transcription	-	90795211	90795211	-33
chr5	90795125	90795174	transcription	-	90795211	90795211	61
chr5	90795440	90795489	transcription	-	90795211	90795211	-253
chr15	79723213	79723262	transcription	+	79722887	79722887	350
chr15	79723323	79723379	transcription	+	79722887	79722887	464
chr15	79723113	79723162	transcription	+	79722887	79722887	250
chr6	88792389	88792438	transcription	-	88791929	88791929	-484
chr6	88792589	88792638	transcription	-	88791929	88791929	-684
chr6	88792514	88792563	transcription	-	88791929	88791929	-609

chr6	88792289	88792338	transcription	-	88791929	88791929	-384
chr5	148769009	148769058	transcription	+	148769461	148769461	-427
chr5	148769104	148769153	transcription	+	148769461	148769461	-332
chr5	148769204	148769253	transcription	+	148769461	148769461	-232
chr11	61299248	61299297	transcription	+	61298945	61298945	327
chr11	61298958	61299007	transcription	+	61298945	61298945	37
chr11	61299038	61299087	transcription	+	61298945	61298945	117
chr11	61299143	61299192	transcription	+	61298945	61298945	222
chr11	61299353	61299402	transcription	+	61298945	61298945	432
chr11	61299453	61299502	transcription	+	61298945	61298945	532
chr14	105658116	105658165	transcription	+	105658020	105658020	120
chr14	105658332	105658381	transcription	+	105658020	105658020	336
chr14	105658021	105658070	transcription	+	105658020	105658020	25
chr2	14976825	14976874	transcription	+	14976988	14976988	-138
chr2	14976922	14976971	transcription	+	14976988	14976988	-41
chr2	14977027	14977076	transcription	+	14976988	14976988	63
chr8	77737189	77737238	transcription	+	77737842	77737842	-628
chr8	77737089	77737138	transcription	+	77737842	77737842	-728
chr8	77736894	77736943	transcription	+	77737842	77737842	-923
chr9	110849262	110849311	transcription	+	110854048	110854048	-4761
chr9	110849157	110849206	transcription	+	110854048	110854048	-4866
chr9	110849372	110849421	transcription	+	110854048	110854048	-4651
chr15	82855596	82855645	transcription	-	82853568	82853568	-2052
chr15	82855786	82855835	transcription	-	82853568	82853568	-2242
chr15	82855896	82855945	transcription	-	82853568	82853568	-2352
chr15	82855981	82856030	transcription	-	82853568	82853568	-2437
chr15	82856081	82856130	transcription	-	82853568	82853568	-2537
chr15	82855681	82855730	transcription	-	82853568	82853568	-2137
chr2	151799384	151799433	transcription	-	151799710	151799710	301
chr2	151799274	151799323	transcription	-	151799710	151799710	410
chr2	151799184	151799233	transcription	-	151799710	151799710	501
chr2	151799479	151799528	transcription	-	151799710	151799710	206
chr2	151799089	151799138	transcription	-	151799710	151799710	596
chr8	112486138	112486187	transcription	-	112486072	112486072	-90
chr8	112485748	112485797	transcription	-	112486072	112486072	299
chr8	112485928	112485977	transcription	-	112486072	112486072	119
chr8	112486028	112486077	transcription	-	112486072	112486072	19
chr8	112485828	112485877	transcription	-	112486072	112486072	219
chr8	112485643	112485692	transcription	-	112486072	112486072	404
chr6	51494307	51494363	transcription	+	51494521	51494521	-186
chr6	51494392	51494443	transcription	+	51494521	51494521	-103
chr6	51494611	51494660	transcription	+	51494521	51494521	114
chr6	51494931	51494980	transcription	+	51494521	51494521	434
chr7	16807443	16807492	transcription	-	16807381	16807381	-86
chr7	16807343	16807392	transcription	-	16807381	16807381	13
chr7	16807548	16807597	transcription	-	16807381	16807381	-191
chr17	74059472	74059521	transcription	-	74059404	74059404	-92
chr17	74059567	74059616	transcription	-	74059404	74059404	-187
chr17	74059687	74059736	transcription	-	74059404	74059404	-307
chr17	74059787	74059836	transcription	-	74059404	74059404	-407
chr2	131005324	131005373	transcription	-	131000546	131000546	-4802
chr2	131005424	131005473	transcription	-	131000546	131000546	-4902
chr2	131005504	131005553	transcription	-	131000546	131000546	-4982

chr2	131005214	131005263	transcription	-	131000546	131000546	-4692
chr2	131005104	131005153	transcription	-	131000546	131000546	-4582
chr12	112951122	112951171	transcription	-	112951468	112951468	321
chr12	112951222	112951271	transcription	-	112951468	112951468	221
chr12	112951322	112951371	transcription	-	112951468	112951468	121
chr12	112951037	112951086	transcription	-	112951468	112951468	406
chr9	86360802	86360851	transcription	-	86358523	86358523	-2303
chr9	86360902	86360951	transcription	-	86358523	86358523	-2403
chr9	86360997	86361046	transcription	-	86358523	86358523	-2498
chr9	86361087	86361136	transcription	-	86358523	86358523	-2588
chr11	113428944	113428993	transcription	-	113427075	113427075	-1893
chr11	113429039	113429088	transcription	-	113427075	113427075	-1988
chr11	113429159	113429208	transcription	-	113427075	113427075	-2108
chr13	59870953	59871002	transcription	-	59871150	59871150	172
chr13	59871048	59871097	transcription	-	59871150	59871150	77
chr13	59870848	59870897	transcription	-	59871150	59871150	277
chr9	120401604	120401653	transcription	+	120401723	120401723	-94
chr9	120401709	120401758	transcription	+	120401723	120401723	10
chr9	120401799	120401848	transcription	+	120401723	120401723	100
chr12	112951122	112951171	transcription	+	112951481	112951481	-334
chr12	112951222	112951271	transcription	+	112951481	112951481	-234
chr12	112951322	112951371	transcription	+	112951481	112951481	-134
chr12	112951037	112951086	transcription	+	112951481	112951481	-419
chr8	107996647	107996696	transcription	-	107995267	107995267	-1404
chr8	107996537	107996586	transcription	-	107995267	107995267	-1294
chr8	107996352	107996401	transcription	-	107995267	107995267	-1109
chr8	107996452	107996501	transcription	-	107995267	107995267	-1209
chr8	32280781	32280830	transcription	-	32279196	32279196	-1609
chr8	32280881	32280934	transcription	-	32279196	32279196	-1711
chr8	32280996	32281045	transcription	-	32279196	32279196	-1824
chr8	32281106	32281155	transcription	-	32279196	32279196	-1934
chr8	32281191	32281252	transcription	-	32279196	32279196	-2025
chr8	32281301	32281351	transcription	-	32279196	32279196	-2130
chr8	32281396	32281447	transcription	-	32279196	32279196	-2225
chr8	32281506	32281563	transcription	-	32279196	32279196	-2338
chr4	136986587	136986636	transcription	-	136986435	136986435	-176
chr4	136986672	136986721	transcription	-	136986435	136986435	-261
chr4	136986787	136986837	transcription	-	136986435	136986435	-377
chr11	69211657	69211706	transcription	-	69211736	69211736	54
chr11	69211757	69211806	transcription	-	69211736	69211736	-45
chr11	69211862	69211911	transcription	-	69211736	69211736	-150
chr11	69211957	69212006	transcription	-	69211736	69211736	-245
chr4	106472388	106472437	transcription	-	106472371	106472371	-41
chr4	106472493	106472542	transcription	-	106472371	106472371	-146
chr4	106472003	106472053	transcription	-	106472371	106472371	343
chr4	106472103	106472155	transcription	-	106472371	106472371	242
chr4	106472183	106472232	transcription	-	106472371	106472371	163
chr4	106472283	106472332	transcription	-	106472371	106472371	63
chr4	136025990	136026039	transcription	+	136025675	136025675	339
chr4	136026090	136026139	transcription	+	136025675	136025675	439
chr4	136026190	136026239	transcription	+	136025675	136025675	539
chr10	75355565	75355626	transcription	+	75356142	75356142	-546
chr10	75355680	75355729	transcription	+	75356142	75356142	-437

chr10	75355760	75355809	transcription	+	75356142	75356142	-357
chr10	75356380	75356429	transcription	+	75356142	75356142	262
chr11	106348718	106348767	transcription	-	106349110	106349110	367
chr11	106348808	106348857	transcription	-	106349110	106349110	277
chr11	106348919	106348968	transcription	-	106349110	106349110	166
chr11	106349004	106349053	transcription	-	106349110	106349110	81
chr19	34953215	34953264	transcription	-	34952407	34952407	-832
chr19	34953315	34953364	transcription	-	34952407	34952407	-932
chr19	34952915	34952964	transcription	-	34952407	34952407	-532
chr19	34953005	34953054	transcription	-	34952407	34952407	-622
chr19	34952795	34952844	transcription	-	34952407	34952407	-412
chr6	49164159	49164208	transcription	-	49164953	49164953	769
chr6	49164079	49164128	transcription	-	49164953	49164953	849
chr6	49164275	49164324	transcription	-	49164953	49164953	653
chr9	21795385	21795434	transcription	-	21793897	21793897	-1512
chr9	21795080	21795129	transcription	-	21793897	21793897	-1207
chr9	21795205	21795254	transcription	-	21793897	21793897	-1332
chr9	21795305	21795354	transcription	-	21793897	21793897	-1432
chr10	76424852	76424901	transcription	-	76424692	76424692	-184
chr10	76424462	76424511	transcription	-	76424692	76424692	205
chr10	76424757	76424806	transcription	-	76424692	76424692	-89
chr10	76424557	76424606	transcription	-	76424692	76424692	110
chr10	76424652	76424701	transcription	-	76424692	76424692	15
chr16	46496948	46496997	transcription	-	46497080	46497080	107
chr16	46496763	46496812	transcription	-	46497080	46497080	292
chr16	46496443	46496492	transcription	-	46497080	46497080	612
chr16	46496643	46496692	transcription	-	46497080	46497080	412
chr16	46496948	46496997	transcription	-	46497080	46497080	107
chr16	46496763	46496812	transcription	-	46497080	46497080	292
chr16	46496443	46496492	transcription	-	46497080	46497080	612
chr16	46496643	46496692	transcription	-	46497080	46497080	412
chr16	46496948	46496997	transcription	-	46497080	46497080	107
chr16	46496763	46496812	transcription	-	46497080	46497080	292
chr16	46496443	46496492	transcription	-	46497080	46497080	612
chr16	46496643	46496692	transcription	-	46497080	46497080	412
chr16	46496948	46496997	transcription	-	46497080	46497080	107
chr16	46496763	46496812	transcription	-	46497080	46497080	292
chr16	46496443	46496492	transcription	-	46497080	46497080	612
chr16	46496643	46496692	transcription	-	46497080	46497080	412
chr17	28502026	28502075	transcription	-	28502088	28502088	37
chr17	28501806	28501855	transcription	-	28502088	28502088	257
chr17	28501906	28501955	transcription	-	28502088	28502088	157
chr17	28501726	28501775	transcription	-	28502088	28502088	337
chr17	28502136	28502185	transcription	-	28502088	28502088	-72
chr17	28501416	28501465	transcription	-	28502088	28502088	647
chr17	28501511	28501560	transcription	-	28502088	28502088	552
chr17	28501626	28501675	transcription	-	28502088	28502088	437
chr17	28501306	28501355	transcription	-	28502088	28502088	757
chr17	28501226	28501275	transcription	-	28502088	28502088	837
chr17	28501121	28501170	transcription	-	28502088	28502088	942
chr15	89330330	89330379	transcription	+	89330287	89330287	67
chr15	89330430	89330479	transcription	+	89330287	89330287	167
chr15	89330531	89330580	transcription	+	89330287	89330287	268
chr11	115013846	115013895	transcription	+	115015498	115015498	-1627
chr11	115013651	115013700	transcription	+	115015498	115015498	-1822
chr11	115013741	115013790	transcription	+	115015498	115015498	-1732
chr7	48154487	48154536	transcription	+	48154647	48154647	-135

chr7	48154407	48154456	transcription	+	48154647	48154647	-215
chr7	48154312	48154361	transcription	+	48154647	48154647	-310
chr7	48154612	48154661	transcription	+	48154647	48154647	-10
chr9	64949255	64949304	transcription	+	64949301	64949301	-21
chr9	64949143	64949192	transcription	+	64949301	64949301	-133
chr9	64948538	64948587	transcription	+	64949301	64949301	-738
chr9	64948638	64948694	transcription	+	64949301	64949301	-635
chr9	64948858	64948907	transcription	+	64949301	64949301	-418
chr9	64949043	64949092	transcription	+	64949301	64949301	-233
chr9	64948948	64948997	transcription	+	64949301	64949301	-328
chr4	3865722	3865771	transcription	-	3865552	3865552	-194
chr4	3865822	3865871	transcription	-	3865552	3865552	-294
chr4	3866022	3866071	transcription	-	3865552	3865552	-494
chr4	3865912	3865961	transcription	-	3865552	3865552	-384
chr9	21000730	21000779	transcription	+	21001148	21001148	-393
chr9	21000830	21000879	transcription	+	21001148	21001148	-293
chr9	21000920	21000969	transcription	+	21001148	21001148	-203
chr6	100237002	100237051	transcription	-	100237352	100237352	325
chr6	100238732	100238781	transcription	-	100237352	100237352	-1404
chr6	100238827	100238876	transcription	-	100237352	100237352	-1499
chr6	100238922	100238971	transcription	-	100237352	100237352	-1594
chr4	149493363	149493412	transcription	+	149493452	149493452	-64
chr4	149493463	149493512	transcription	+	149493452	149493452	35
chr4	149493548	149493597	transcription	+	149493452	149493452	120
chr4	149493658	149493707	transcription	+	149493452	149493452	231
chr4	149493753	149493802	transcription	+	149493452	149493452	325
chr4	149493853	149493902	transcription	+	149493452	149493452	425
chr8	122084101	122084150	transcription	-	122082627	122082627	-1498
chr8	122084211	122084260	transcription	-	122082627	122082627	-1608
chr8	122084296	122084346	transcription	-	122082627	122082627	-1694
chr8	122084401	122084450	transcription	-	122082627	122082627	-1798
chr8	122084501	122084550	transcription	-	122082627	122082627	-1898
chr4	151503197	151503246	transcription	-	151503034	151503034	-187
chr4	151503307	151503357	transcription	-	151503034	151503034	-298
chr4	151503417	151503466	transcription	-	151503034	151503034	-407
chr4	151503512	151503561	transcription	-	151503034	151503034	-502
chr4	151503602	151503651	transcription	-	151503034	151503034	-592
chr4	151503712	151503761	transcription	-	151503034	151503034	-702
chr4	151503117	151503166	transcription	-	151503034	151503034	-107
chr4	151503802	151503851	transcription	-	151503034	151503034	-792
chr15	101053800	101053849	transcription	+	101054637	101054637	-812
chr15	101053600	101053651	transcription	+	101054637	101054637	-1011
chr15	101053700	101053749	transcription	+	101054637	101054637	-912
chr15	101053380	101053429	transcription	+	101054637	101054637	-1232
chr15	101053480	101053529	transcription	+	101054637	101054637	-1132
chr15	101053885	101053934	transcription	+	101054637	101054637	-727
chr7	112784294	112784343	transcription	+	112789053	112789053	-4734
chr7	112784079	112784128	transcription	+	112789053	112789053	-4949
chr7	112784184	112784233	transcription	+	112789053	112789053	-4844
chr3	144383059	144383108	transcription	-	144383287	144383287	203
chr3	144382964	144383013	transcription	-	144383287	144383287	298
chr3	144383249	144383298	transcription	-	144383287	144383287	13
chr2	119150017	119150066	transcription	+	119151564	119151564	-1522

chr2	119149897	119149946	transcription	+	119151564	119151564	-1642
chr2	119149307	119149359	transcription	+	119151564	119151564	-2231
chr2	119149412	119149464	transcription	+	119151564	119151564	-2126
chr2	119149497	119149547	transcription	+	119151564	119151564	-2042
chr2	119149597	119149651	transcription	+	119151564	119151564	-1940
chr2	119149707	119149756	transcription	+	119151564	119151564	-1832
chr2	119149802	119149851	transcription	+	119151564	119151564	-1737
chr2	119150117	119150166	transcription	+	119151564	119151564	-1422
chr11	107655554	107655603	transcription	-	107655778	107655778	199
chr11	107655639	107655688	transcription	-	107655778	107655778	114
chr11	107655749	107655798	transcription	-	107655778	107655778	4
chr7	112784294	112784343	transcription	-	112782013	112782013	-2305
chr7	112783974	112784023	transcription	-	112782013	112782013	-1985
chr7	112784079	112784128	transcription	-	112782013	112782013	-2090
chr7	112784184	112784233	transcription	-	112782013	112782013	-2195
chr10	42222313	42222362	transcription	+	42221859	42221859	478
chr10	42222123	42222172	transcription	+	42221859	42221859	288
chr10	42222423	42222472	transcription	+	42221859	42221859	588
chr7	89319214	89319263	transcription	+	89319727	89319727	-488
chr7	89319314	89319363	transcription	+	89319727	89319727	-388
chr7	89319409	89319458	transcription	+	89319727	89319727	-293
chr3	108218676	108218725	transcription	-	108218412	108218412	-288
chr3	108218972	108219021	transcription	-	108218412	108218412	-584
chr3	108219097	108219146	transcription	-	108218412	108218412	-709
chr3	108219412	108219461	transcription	-	108218412	108218412	-1024
chr3	108219522	108219571	transcription	-	108218412	108218412	-1134
chr17	74738215	74738264	transcription	+	74738326	74738326	-86
chr17	74738310	74738359	transcription	+	74738326	74738326	8
chr17	74738400	74738449	transcription	+	74738326	74738326	98
chr2	68310060	68310109	transcription	-	68310038	68310038	-46
chr2	68309640	68309689	transcription	-	68310038	68310038	373
chr2	68309545	68309594	transcription	-	68310038	68310038	468
chr2	68309325	68309374	transcription	-	68310038	68310038	688
chr2	68309430	68309479	transcription	-	68310038	68310038	583
chr6	120042767	120042816	transcription	+	120043397	120043397	-605
chr6	120042467	120042516	transcription	+	120043397	120043397	-905
chr6	120042667	120042719	transcription	+	120043397	120043397	-704
chr6	120042587	120042636	transcription	+	120043397	120043397	-785
chr15	36212368	36212417	transcription	-	36212902	36212902	509
chr15	36212564	36212613	transcription	-	36212902	36212902	313
chr15	36212684	36212733	transcription	-	36212902	36212902	193
chr6	82984265	82984314	transcription	+	82984217	82984217	72
chr6	82984360	82984409	transcription	+	82984217	82984217	167
chr6	82984465	82984514	transcription	+	82984217	82984217	272
chr6	82984565	82984614	transcription	+	82984217	82984217	372
chr6	82984675	82984724	transcription	+	82984217	82984217	482
chr6	82984775	82984824	transcription	+	82984217	82984217	582
chr6	82984860	82984909	transcription	+	82984217	82984217	667
chr6	82984965	82985014	transcription	+	82984217	82984217	772
chr6	82981657	82981706	transcription	+	82984217	82984217	-2535
chr17	34169419	34169468	transcription	-	34165000	34165000	-4443
chr17	34164785	34164834	transcription	-	34165000	34165000	190
chr17	34164890	34164939	transcription	-	34165000	34165000	85

chr17	34164710	34164759	transcription	-	34165000	34165000	265
chr4	9771072	9771121	transcription	+	9771518	9771518	-421
chr4	9771177	9771226	transcription	+	9771518	9771518	-316
chr4	9770882	9770931	transcription	+	9771518	9771518	-611
chr4	9770962	9771011	transcription	+	9771518	9771518	-531
chr2	156247089	156247138	transcription	+	156246787	156246787	326
chr2	156246899	156246948	transcription	+	156246787	156246787	136
chr2	156246994	156247043	transcription	+	156246787	156246787	231
chr2	156247184	156247233	transcription	+	156246787	156246787	421
chr7	88852652	88852701	transcription	-	88851680	88851680	-996
chr7	88852062	88852111	transcription	-	88851680	88851680	-406
chr7	88852142	88852191	transcription	-	88851680	88851680	-486
chr7	88852247	88852296	transcription	-	88851680	88851680	-591
chr7	88852342	88852391	transcription	-	88851680	88851680	-686
chr7	88852442	88852491	transcription	-	88851680	88851680	-786
chr2	179777453	179777502	transcription	-	179777107	179777107	-370
chr2	179777538	179777587	transcription	-	179777107	179777107	-455
chr2	179777653	179777702	transcription	-	179777107	179777107	-570
chr8	107792238	107792287	transcription	+	107793773	107793773	-1510
chr8	107792148	107792197	transcription	+	107793773	107793773	-1600
chr8	107791223	107791272	transcription	+	107793773	107793773	-2525
chr8	107791318	107791368	transcription	+	107793773	107793773	-2430
chr8	107791848	107791903	transcription	+	107793773	107793773	-1897
chr8	107791943	107791992	transcription	+	107793773	107793773	-1805
chr8	107792048	107792097	transcription	+	107793773	107793773	-1700
chr8	107793533	107793582	transcription	+	107793773	107793773	-215
chr8	107792348	107792397	transcription	+	107793773	107793773	-1400
chr8	107792448	107792497	transcription	+	107793773	107793773	-1300
chr8	107791103	107791161	transcription	+	107793773	107793773	-2641
chr8	107791553	107791609	transcription	+	107793773	107793773	-2192
chr8	107791473	107791522	transcription	+	107793773	107793773	-2275
chr8	107791658	107791707	transcription	+	107793773	107793773	-2090
chr10	79763345	79763394	transcription	+	79764564	79764564	-1194
chr10	79762910	79762961	transcription	+	79764564	79764564	-1628
chr10	79763015	79763064	transcription	+	79764564	79764564	-1524
chr10	79763135	79763184	transcription	+	79764564	79764564	-1404
chr10	79763250	79763299	transcription	+	79764564	79764564	-1289
chr4	118966709	118966758	transcription	-	118967118	118967118	384
chr4	118966804	118966853	transcription	-	118967118	118967118	289
chr4	118966889	118966938	transcription	-	118967118	118967118	204
chr4	118966999	118967048	transcription	-	118967118	118967118	94
chr7	66484644	66484693	transcription	+	66484121	66484121	547
chr7	66484744	66484793	transcription	+	66484121	66484121	647
chr7	66484234	66484283	transcription	+	66484121	66484121	137
chr4	155386688	155386738	transcription	+	155387803	155387803	-1090
chr4	155386074	155386123	transcription	+	155387803	155387803	-1704
chr4	155386169	155386218	transcription	+	155387803	155387803	-1609
chr4	155386269	155386318	transcription	+	155387803	155387803	-1509
chr4	155386383	155386432	transcription	+	155387803	155387803	-1395
chr4	155386493	155386542	transcription	+	155387803	155387803	-1285
chr4	155386568	155386617	transcription	+	155387803	155387803	-1210
chr17	28489452	28489501	transcription	-	28487750	28487750	-1726
chr17	28489342	28489391	transcription	-	28487750	28487750	-1616



chr17	28489247	28489296	transcription	-	28487750	28487750	-1521
chr17	28489152	28489201	transcription	-	28487750	28487750	-1426
chr9	110849262	110849311	transcription	-	110848662	110848662	-624
chr9	110849157	110849206	transcription	-	110848662	110848662	-519
chr9	110849372	110849421	transcription	-	110848662	110848662	-734
chr16	18586533	18586582	transcription	-	18587062	18587062	504
chr16	18589269	18589318	transcription	-	18587062	18587062	-2231
chr16	18589169	18589218	transcription	-	18587062	18587062	-2131
chr16	18589069	18589118	transcription	-	18587062	18587062	-2031
chr16	18588969	18589018	transcription	-	18587062	18587062	-1931
chr16	18586428	18586477	transcription	-	18587062	18587062	609
chr2	152223271	152223320	transcription	-	152223782	152223782	486
chr2	152223166	152223215	transcription	-	152223782	152223782	591
chr2	152223389	152223438	transcription	-	152223782	152223782	368
chr2	152223469	152223518	transcription	-	152223782	152223782	288
chr2	152223086	152223135	transcription	-	152223782	152223782	671
chr4	154597069	154597118	transcription	-	154596644	154596644	-449
chr4	154596754	154596803	transcription	-	154596644	154596644	-134
chr4	154596849	154596898	transcription	-	154596644	154596644	-229
chr4	154597469	154597518	transcription	-	154596644	154596644	-849
chr4	154596169	154596218	transcription	-	154596644	154596644	450
chr17	34169419	34169468	transcription	+	34168796	34168796	647
chr17	34164785	34164834	transcription	+	34168796	34168796	-3986
chr17	34164890	34164939	transcription	+	34168796	34168796	-3881
chr17	34164710	34164759	transcription	+	34168796	34168796	-4061
chr16	18089464	18089513	transcription	-	18089283	18089283	-205
chr16	18089545	18089594	transcription	-	18089283	18089283	-286
chr16	18089364	18089413	transcription	-	18089283	18089283	-105
chr6	55967726	55967775	transcription	+	55967508	55967508	242
chr6	55967836	55967885	transcription	+	55967508	55967508	352
chr6	55967646	55967695	transcription	+	55967508	55967508	164
chr5	38550870	38550919	transcription	-	38550706	38550706	-188
chr5	38550967	38551016	transcription	-	38550706	38550706	-285
chr5	38551082	38551131	transcription	-	38550706	38550706	-400
chr5	38551187	38551236	transcription	-	38550706	38550706	-505
chr5	38551282	38551331	transcription	-	38550706	38550706	-600
chr5	38551382	38551431	transcription	-	38550706	38550706	-700
chr11	32122160	32122209	transcription	+	32126510	32126510	-4325
chr11	32121770	32121819	transcription	+	32126510	32126510	-4715
chr11	32122065	32122114	transcription	+	32126510	32126510	-4420
chr2	91771536	91771585	transcription	-	91772439	91772439	878
chr2	91771626	91771675	transcription	-	91772439	91772439	788
chr2	91771721	91771770	transcription	-	91772439	91772439	693
chr2	91771831	91771880	transcription	-	91772439	91772439	583
chr2	91771416	91771465	transcription	-	91772439	91772439	998
chr18	70728364	70728413	transcription	+	70727945	70727945	443
chr18	70728483	70728532	transcription	+	70727945	70727945	562
chr18	70728260	70728309	transcription	+	70727945	70727945	339
chr18	70728180	70728229	transcription	+	70727945	70727945	259
chr18	70728578	70728627	transcription	+	70727945	70727945	657
chr18	70728683	70728732	transcription	+	70727945	70727945	762
chr11	120494783	120494832	transcription	-	120494861	120494861	53
chr11	120494568	120494617	transcription	-	120494861	120494861	268

chr11	120494668	120494717	transcription	-	120494861	120494861	168
chr18	76401419	76401468	transcription	+	76401578	76401578	-134
chr18	76401539	76401588	transcription	+	76401578	76401578	-14
chr18	76401219	76401268	transcription	+	76401578	76401578	-334
chr18	76401319	76401368	transcription	+	76401578	76401578	-234
chr3	55586698	55586747	transcription	+	55586431	55586431	291
chr3	55586818	55586867	transcription	+	55586431	55586431	411
chr3	55586913	55586962	transcription	+	55586431	55586431	506
chr3	55587013	55587062	transcription	+	55586431	55586431	606
chr3	55587113	55587162	transcription	+	55586431	55586431	706
chr3	55587213	55587262	transcription	+	55586431	55586431	806
chr3	55586498	55586553	transcription	+	55586431	55586431	94
chr3	55586618	55586667	transcription	+	55586431	55586431	211
chr1	134775646	134775695	transcription	+	134776931	134776931	-1260
chr1	134775726	134775778	transcription	+	134776931	134776931	-1179
chr1	134775446	134775495	transcription	+	134776931	134776931	-1460
chr1	134775836	134775886	transcription	+	134776931	134776931	-1070
chr1	134775941	134775990	transcription	+	134776931	134776931	-965
chr1	134775346	134775395	transcription	+	134776931	134776931	-1560
chr9	58160266	58160315	transcription	-	58160993	58160993	702
chr9	58160081	58160130	transcription	-	58160993	58160993	887
chr9	58160366	58160415	transcription	-	58160993	58160993	602
chr9	58160176	58160225	transcription	-	58160993	58160993	792
chr2	38207050	38207099	transcription	+	38206827	38206827	247
chr2	38206769	38206818	transcription	+	38206827	38206827	-33
chr2	38207270	38207319	transcription	+	38206827	38206827	467
chr2	38207360	38207409	transcription	+	38206827	38206827	557
chr13	47025168	47025217	transcription	-	47025087	47025087	-105
chr13	47025263	47025312	transcription	-	47025087	47025087	-200
chr13	47025071	47025120	transcription	-	47025087	47025087	-8
chr6	52169937	52169986	transcription	-	52168572	52168572	-1389
chr6	52170032	52170081	transcription	-	52168572	52168572	-1484
chr6	52170142	52170191	transcription	-	52168572	52168572	-1594
chr6	52170252	52170301	transcription	-	52168572	52168572	-1704
chr6	52170357	52170407	transcription	-	52168572	52168572	-1810
chr6	52170442	52170492	transcription	-	52168572	52168572	-1895
chr6	52169247	52169303	transcription	-	52168572	52168572	-703
chr6	52169357	52169406	transcription	-	52168572	52168572	-809
chr6	52169432	52169481	transcription	-	52168572	52168572	-884
chr6	52169537	52169587	transcription	-	52168572	52168572	-990
chr6	52169642	52169695	transcription	-	52168572	52168572	-1096
chr6	52169757	52169817	transcription	-	52168572	52168572	-1215
chr6	52169837	52169886	transcription	-	52168572	52168572	-1289
chr6	52170532	52170589	transcription	-	52168572	52168572	-1988
chr6	52169142	52169192	transcription	-	52168572	52168572	-595
chr6	52169057	52169106	transcription	-	52168572	52168572	-509
chr6	52159086	52159135	transcription	-	52158623	52158623	-487
chr6	52159186	52159235	transcription	-	52158623	52158623	-587
chr6	52159286	52159335	transcription	-	52158623	52158623	-687
chr6	52159386	52159435	transcription	-	52158623	52158623	-787
chr6	52158906	52158955	transcription	-	52158623	52158623	-307
chr6	52158986	52159035	transcription	-	52158623	52158623	-387
chr6	52159086	52159135	transcription	-	52154586	52154586	-4524



chr6	52159186	52159235	transcription	-	52154586	52154586	-4624
chr6	52159286	52159335	transcription	-	52154586	52154586	-4724
chr6	52159386	52159435	transcription	-	52154586	52154586	-4824
chr6	52155780	52155829	transcription	-	52154586	52154586	-1218
chr6	52153680	52153729	transcription	-	52154586	52154586	881
chr6	52153585	52153634	transcription	-	52154586	52154586	976
chr6	52155690	52155739	transcription	-	52154586	52154586	-1128
chr6	52158906	52158955	transcription	-	52154586	52154586	-4344
chr6	52158986	52159035	transcription	-	52154586	52154586	-4424
chr6	52153080	52153129	transcription	-	52150941	52150941	-2163
chr6	52152980	52153029	transcription	-	52150941	52150941	-2063
chr6	52152880	52152929	transcription	-	52150941	52150941	-1963
chr6	52152790	52152839	transcription	-	52150941	52150941	-1873
chr6	52152600	52152651	transcription	-	52150941	52150941	-1684
chr6	52152700	52152749	transcription	-	52150941	52150941	-1783
chr6	52155780	52155829	transcription	-	52150941	52150941	-4863
chr6	52151174	52151227	transcription	-	52150941	52150941	-259
chr6	52151269	52151324	transcription	-	52150941	52150941	-355
chr6	52151060	52151111	transcription	-	52150941	52150941	-144
chr6	52150953	52151013	transcription	-	52150941	52150941	-42
chr6	52153680	52153729	transcription	-	52150941	52150941	-2763
chr6	52153400	52153449	transcription	-	52150941	52150941	-2483
chr6	52153480	52153529	transcription	-	52150941	52150941	-2563
chr6	52153585	52153634	transcription	-	52150941	52150941	-2668
chr6	52150423	52150472	transcription	-	52150941	52150941	493
chr6	52152385	52152448	transcription	-	52150941	52150941	-1475
chr6	52152500	52152549	transcription	-	52150941	52150941	-1583
chr6	52150753	52150810	transcription	-	52150941	52150941	159
chr6	52150873	52150924	transcription	-	52150941	52150941	42
chr6	52155690	52155739	transcription	-	52150941	52150941	-4773
chr11	51419813	51419862	transcription	-	51420383	51420383	545
chr11	51419618	51419667	transcription	-	51420383	51420383	740
chr11	51419698	51419747	transcription	-	51420383	51420383	660
chr15	101095225	101095274	transcription	+	101097276	101097276	-2026
chr15	101095325	101095382	transcription	+	101097276	101097276	-1922
chr15	101095435	101095486	transcription	+	101097276	101097276	-1815
chr16	18622255	18622304	transcription	-	18622496	18622496	216
chr16	18622160	18622209	transcription	-	18622496	18622496	311
chr16	18622060	18622109	transcription	-	18622496	18622496	411
chr5	17866098	17866147	transcription	-	17866231	17866231	108
chr5	17866213	17866262	transcription	-	17866231	17866231	-6
chr5	17865993	17866042	transcription	-	17866231	17866231	213
chr17	34258575	34258624	transcription	-	34258692	34258692	92
chr17	34258685	34258734	transcription	-	34258692	34258692	-17
chr17	34258775	34258824	transcription	-	34258692	34258692	-107
chr17	34258867	34258916	transcription	-	34258692	34258692	-199
chr17	34258967	34259017	transcription	-	34258692	34258692	-300
chr17	34259067	34259116	transcription	-	34258692	34258692	-399
chr17	34259180	34259229	transcription	-	34258692	34258692	-512
chr17	34259587	34259636	transcription	-	34258692	34258692	-919
chr4	132529448	132529497	transcription	+	132530009	132530009	-536
chr4	132529528	132529577	transcription	+	132530009	132530009	-456
chr4	132529648	132529699	transcription	+	132530009	132530009	-335

chr4	132529728	132529777	transcription	+	132530009	132530009	-256
chr4	132529228	132529277	transcription	+	132530009	132530009	-756
chr4	132529328	132529377	transcription	+	132530009	132530009	-656
chr18	58370770	58370819	transcription	-	58369580	58369580	-1214
chr18	58369652	58369701	transcription	-	58369580	58369580	-96
chr18	58369858	58369907	transcription	-	58369580	58369580	-302
chr8	73907816	73907865	transcription	-	73905851	73905851	-1989
chr8	73907591	73907640	transcription	-	73905851	73905851	-1764
chr8	73907691	73907740	transcription	-	73905851	73905851	-1864
chr8	73907901	73907950	transcription	-	73905851	73905851	-2074
chr11	32122160	32122209	transcription	-	32122293	32122293	108
chr11	32121770	32121819	transcription	-	32122293	32122293	498
chr11	32122065	32122114	transcription	-	32122293	32122293	203
chr6	82984265	82984314	transcription	-	82983465	82983465	-824
chr6	82984360	82984409	transcription	-	82983465	82983465	-919
chr6	82984465	82984514	transcription	-	82983465	82983465	-1024
chr6	82984565	82984614	transcription	-	82983465	82983465	-1124
chr6	82984675	82984724	transcription	-	82983465	82983465	-1234
chr6	82984775	82984824	transcription	-	82983465	82983465	-1334
chr6	82984860	82984909	transcription	-	82983465	82983465	-1419
chr6	82984965	82985014	transcription	-	82983465	82983465	-1524
chr6	6813870	6813919	transcription	+	6813333	6813333	561
chr6	6813965	6814014	transcription	+	6813333	6813333	656
chr6	6814070	6814119	transcription	+	6813333	6813333	761
chr1	64579933	64579982	transcription	+	64579377	64579377	580
chr1	64579323	64579372	transcription	+	64579377	64579377	-29
chr1	64579438	64579487	transcription	+	64579377	64579377	85
chr1	64579533	64579582	transcription	+	64579377	64579377	180
chr1	64579818	64579867	transcription	+	64579377	64579377	465
chr4	136913254	136913303	transcription	-	136913652	136913652	373
chr4	136913494	136913543	transcription	-	136913652	136913652	133
chr4	136913174	136913223	transcription	-	136913652	136913652	453
chr3	101888520	101888577	transcription	+	101890432	101890432	-1883
chr3	101888600	101888649	transcription	+	101890432	101890432	-1807
chr3	101887897	101887950	transcription	+	101890432	101890432	-2508
chr3	101887992	101888041	transcription	+	101890432	101890432	-2415
chr3	101888097	101888146	transcription	+	101890432	101890432	-2310
chr3	101888197	101888246	transcription	+	101890432	101890432	-2210
chrX	13424638	13424694	transcription	-	13423667	13423667	-999
chrX	13424748	13424797	transcription	-	13423667	13423667	-1105
chrX	13424828	13424877	transcription	-	13423667	13423667	-1185
chr15	89308246	89308297	transcription	-	89307856	89307856	-415
chr15	89308351	89308400	transcription	-	89307856	89307856	-519
chr15	89308466	89308515	transcription	-	89307856	89307856	-634
chr15	99420991	99421040	transcription	+	99421458	99421458	-442
chr15	99421091	99421140	transcription	+	99421458	99421458	-342
chr15	99420681	99420730	transcription	+	99421458	99421458	-752
chr15	99420481	99420533	transcription	+	99421458	99421458	-951
chr15	99420596	99420645	transcription	+	99421458	99421458	-837
chr15	99420796	99420845	transcription	+	99421458	99421458	-637
chr7	20263139	20263188	transcription	-	20262213	20262213	-950
chr7	20263224	20263273	transcription	-	20262213	20262213	-1035
chr7	20263044	20263093	transcription	-	20262213	20262213	-855



chr1	89102301	89102350	transcription	+	89102385	89102385	-59
chr1	89102421	89102470	transcription	+	89102385	89102385	60
chr1	89102506	89102555	transcription	+	89102385	89102385	145
chr6	71444077	71444126	transcription	+	71443887	71443887	214
chr6	71444202	71444251	transcription	+	71443887	71443887	339
chr6	71444287	71444336	transcription	+	71443887	71443887	424
chr6	71444392	71444441	transcription	+	71443887	71443887	529
chr8	55162579	55162628	transcription	+	55162885	55162885	-281
chr8	55162876	55162925	transcription	+	55162885	55162885	15
chr8	55162484	55162533	transcription	+	55162885	55162885	-376
chr15	78240971	78241020	transcription	-	78236289	78236289	-4706
chr15	78240661	78240710	transcription	-	78236289	78236289	-4396
chr15	78240761	78240810	transcription	-	78236289	78236289	-4496
chr15	78240866	78240915	transcription	-	78236289	78236289	-4601
chr15	78241071	78241120	transcription	-	78236289	78236289	-4806
chr2	151966588	151966637	transcription	+	151969344	151969344	-2731
chr2	151966898	151966947	transcription	+	151969344	151969344	-2421
chr2	151966788	151966837	transcription	+	151969344	151969344	-2531
chr2	151969731	151969780	transcription	+	151969344	151969344	411
chr2	151966698	151966748	transcription	+	151969344	151969344	-2621
chr2	157250181	157250230	transcription	+	157250028	157250028	177
chr2	157250292	157250341	transcription	+	157250028	157250028	288
chr2	157249991	157250040	transcription	+	157250028	157250028	-12
chr2	157250091	157250140	transcription	+	157250028	157250028	87
chr1	75542291	75542340	transcription	+	75542840	75542840	-524
chr1	75542416	75542465	transcription	+	75542840	75542840	-399
chr1	75542191	75542240	transcription	+	75542840	75542840	-624
chr1	75542096	75542145	transcription	+	75542840	75542840	-719
chr1	75542706	75542755	transcription	+	75542840	75542840	-109
chr1	75542511	75542560	transcription	+	75542840	75542840	-304
chr1	75542606	75542655	transcription	+	75542840	75542840	-209
chr18	58038769	58038818	transcription	+	58038331	58038331	462
chr18	58038869	58038918	transcription	+	58038331	58038331	562
chr18	58038949	58038998	transcription	+	58038331	58038331	642
chr17	34161789	34161838	transcription	-	34161625	34161625	-188
chr17	34164785	34164834	transcription	-	34161625	34161625	-3184
chr17	34164890	34164939	transcription	-	34161625	34161625	-3289
chr17	34164710	34164759	transcription	-	34161625	34161625	-3109
chr2	25325051	25325100	transcription	-	25325269	25325269	193
chr2	25325146	25325195	transcription	-	25325269	25325269	98
chr2	25324931	25324980	transcription	-	25325269	25325269	313
chr12	51750071	51750120	transcription	-	51750210	51750210	114
chr12	51750181	51750230	transcription	-	51750210	51750210	4
chr12	51750276	51750325	transcription	-	51750210	51750210	-90
chr7	108163067	108163116	transcription	-	108160505	108160505	-2586
chr7	108162977	108163026	transcription	-	108160505	108160505	-2496
chr7	108163167	108163216	transcription	-	108160505	108160505	-2686
chr7	108163287	108163336	transcription	-	108160505	108160505	-2806
chr7	149275656	149275705	transcription	-	149276175	149276175	494
chr7	149275551	149275600	transcription	-	149276175	149276175	599
chr7	149275456	149275505	transcription	-	149276175	149276175	694
chr1	39956612	39956661	transcription	+	39957757	39957757	-1120
chr1	39956697	39956747	transcription	+	39957757	39957757	-1035

chr1	39956822	39956872	transcription	+	39957757	39957757	-910
chr1	39956897	39956946	transcription	+	39957757	39957757	-835
chr1	39957002	39957051	transcription	+	39957757	39957757	-730
chr1	39957097	39957146	transcription	+	39957757	39957757	-635
chr2	90955934	90955983	transcription	+	90958300	90958300	-2341
chr2	90956029	90956078	transcription	+	90958300	90958300	-2246
chr2	90956159	90956210	transcription	+	90958300	90958300	-2115
chr1	132993789	132993838	transcription	-	132994120	132994120	306
chr1	132993894	132993943	transcription	-	132994120	132994120	201
chr1	132993984	132994033	transcription	-	132994120	132994120	111
chr1	132993684	132993733	transcription	-	132994120	132994120	411
chr9	63868696	63868745	transcription	-	63869128	63869128	407
chr9	63868781	63868830	transcription	-	63869128	63869128	322
chr9	63868395	63868444	transcription	-	63869128	63869128	708
chr9	63868475	63868524	transcription	-	63869128	63869128	628
chr19	41070089	41070138	transcription	-	41069025	41069025	-1088
chr19	41070299	41070355	transcription	-	41069025	41069025	-1302
chr19	41070409	41070458	transcription	-	41069025	41069025	-1408
chr19	41070199	41070248	transcription	-	41069025	41069025	-1198
chr7	51846969	51847018	transcription	+	51846255	51846255	738
chr7	51847054	51847103	transcription	+	51846255	51846255	823
chr7	51847149	51847198	transcription	+	51846255	51846255	918
chr8	94327531	94327580	transcription	-	94325273	94325273	-2282
chr8	94327416	94327465	transcription	-	94325273	94325273	-2167
chr8	94327331	94327380	transcription	-	94325273	94325273	-2082
chr8	94329574	94329623	transcription	-	94325273	94325273	-4325
chr8	94327226	94327275	transcription	-	94325273	94325273	-1977
chr8	94327131	94327180	transcription	-	94325273	94325273	-1882
chr4	124419593	124419642	transcription	+	124419121	124419121	496
chr4	124419303	124419352	transcription	+	124419121	124419121	206
chr4	124419403	124419452	transcription	+	124419121	124419121	306
chr1	72870793	72870842	transcription	+	72871076	72871076	-258
chr1	72870893	72870942	transcription	+	72871076	72871076	-158
chr1	72871006	72871055	transcription	+	72871076	72871076	-45
chr1	72870693	72870746	transcription	+	72871076	72871076	-356
chr1	72870493	72870542	transcription	+	72871076	72871076	-558
chr1	72870598	72870647	transcription	+	72871076	72871076	-453
chr1	72870413	72870462	transcription	+	72871076	72871076	-638
chr1	72870303	72870352	transcription	+	72871076	72871076	-748
chr1	72871091	72871140	transcription	+	72871076	72871076	39
chr8	25709889	25709938	transcription	-	25707481	25707481	-2432
chr8	25709674	25709723	transcription	-	25707481	25707481	-2217
chr8	25709774	25709823	transcription	-	25707481	25707481	-2317
chr19	36131698	36131747	transcription	-	36131850	36131850	127
chr19	36131803	36131852	transcription	-	36131850	36131850	22
chr19	36134455	36134515	transcription	-	36131850	36131850	-2635
chr19	36134555	36134611	transcription	-	36131850	36131850	-2733
chr5	123634319	123634375	transcription	-	123632695	123632695	-1652
chr5	123634409	123634458	transcription	-	123632695	123632695	-1738
chr5	123634209	123634258	transcription	-	123632695	123632695	-1538
chr2	74541840	74541889	transcription	+	74543545	74543545	-1680
chr2	74541955	74542007	transcription	+	74543545	74543545	-1564
chr2	74541494	74541543	transcription	+	74543545	74543545	-2026



chr2	74541594	74541643	transcription	+	74543545	74543545	-1926
chr2	74541760	74541809	transcription	+	74543545	74543545	-1760
chr2	74542035	74542084	transcription	+	74543545	74543545	-1485
chr11	96162270	96162319	transcription	+	96164825	96164825	-2530
chr11	96162165	96162214	transcription	+	96164825	96164825	-2635
chr11	96162065	96162114	transcription	+	96164825	96164825	-2735
chr11	96163779	96163828	transcription	+	96164825	96164825	-1021
chr11	96163565	96163616	transcription	+	96164825	96164825	-1234
chr11	96163689	96163738	transcription	+	96164825	96164825	-1111
chr11	96163475	96163524	transcription	+	96164825	96164825	-1325
chr11	96163365	96163414	transcription	+	96164825	96164825	-1435
chr11	96226360	96226409	transcription	+	96227071	96227071	-686
chr11	96226460	96226509	transcription	+	96227071	96227071	-586
chr11	96226240	96226289	transcription	+	96227071	96227071	-806
chr11	96226160	96226222	transcription	+	96227071	96227071	-880
chr6	52210813	52210862	transcription	-	52210874	52210874	36
chr6	52210428	52210477	transcription	-	52210874	52210874	421
chr6	52210288	52210337	transcription	-	52210874	52210874	561
chr6	52210933	52210982	transcription	-	52210874	52210874	-83
chr11	57645369	57645418	transcription	-	57645649	57645649	255
chr11	57645449	57645498	transcription	-	57645649	57645649	175
chr11	57645254	57645303	transcription	-	57645649	57645649	370
chr11	57645144	57645193	transcription	-	57645649	57645649	480
chr11	57645649	57645698	transcription	-	57645649	57645649	-24
chr11	57645549	57645598	transcription	-	57645649	57645649	75
chr11	57645754	57645803	transcription	-	57645649	57645649	-129
chr18	39649938	39649987	transcription	-	39646899	39646899	-3063
chr18	39649858	39649907	transcription	-	39646899	39646899	-2983
chr18	39650138	39650187	transcription	-	39646899	39646899	-3263
chr16	9992593	9992642	transcription	-	9992626	9992626	8
chr16	9992698	9992747	transcription	-	9992626	9992626	-96
chr16	9992808	9992857	transcription	-	9992626	9992626	-206
chr16	9992508	9992557	transcription	-	9992626	9992626	93
chr1	195099243	195099292	transcription	-	195099382	195099382	114
chr1	195099048	195099097	transcription	-	195099382	195099382	309
chr1	195099143	195099192	transcription	-	195099382	195099382	214
chr1	195098958	195099007	transcription	-	195099382	195099382	399
chr1	195098853	195098902	transcription	-	195099382	195099382	504
chr3	33919292	33919341	transcription	+	33919000	33919000	316
chr3	33919591	33919640	transcription	+	33919000	33919000	615
chr3	33919407	33919456	transcription	+	33919000	33919000	431
chr7	109019306	109019356	transcription	-	109019197	109019197	-134
chr7	109019386	109019438	transcription	-	109019197	109019197	-215
chr7	109019806	109019855	transcription	-	109019197	109019197	-633
chr7	109019891	109019940	transcription	-	109019197	109019197	-718
chr7	109019491	109019540	transcription	-	109019197	109019197	-318
chr7	109019586	109019635	transcription	-	109019197	109019197	-413
chr7	109019686	109019735	transcription	-	109019197	109019197	-513
chr2	125331894	125331943	transcription	-	125332174	125332174	255
chr2	125331699	125331748	transcription	-	125332174	125332174	450
chr2	125331604	125331653	transcription	-	125332174	125332174	545
chr2	125331794	125331843	transcription	-	125332174	125332174	355
chr2	125331494	125331543	transcription	-	125332174	125332174	655

chr11	120685194	120685243	transcription	-	120685861	120685861	642
chr11	120685299	120685348	transcription	-	120685861	120685861	537
chr11	120685094	120685143	transcription	-	120685861	120685861	742
chr11	69374920	69374969	transcription	-	69373739	69373739	-1205
chr11	69373111	69373160	transcription	-	69373739	69373739	603
chr11	69373216	69373265	transcription	-	69373739	69373739	498
chr3	89144708	89144757	transcription	-	89141950	89141950	-2782
chr3	89144808	89144857	transcription	-	89141950	89141950	-2882
chr3	89144893	89144942	transcription	-	89141950	89141950	-2967
chr10	84647298	84647347	transcription	-	84647799	84647799	476
chr10	84647408	84647457	transcription	-	84647799	84647799	366
chr10	84647213	84647262	transcription	-	84647799	84647799	561
chr2	30271329	30271378	transcription	-	30271268	30271268	-85
chr2	30271414	30271463	transcription	-	30271268	30271268	-170
chr2	30271509	30271558	transcription	-	30271268	30271268	-265
chr2	131005324	131005373	transcription	-	131005748	131005748	399
chr2	131005424	131005473	transcription	-	131005748	131005748	299
chr2	131005504	131005553	transcription	-	131005748	131005748	219
chr2	131005214	131005263	transcription	-	131005748	131005748	509
chr2	131005104	131005153	transcription	-	131005748	131005748	619
chr2	131005609	131005658	transcription	-	131005748	131005748	114
chr11	118948655	118948704	transcription	-	118947551	118947551	-1128
chr11	118948760	118948809	transcription	-	118947551	118947551	-1233
chr11	118952447	118952496	transcription	-	118947551	118947551	-4920
chr9	120842558	120842607	transcription	+	120842592	120842592	-9
chr9	120842663	120842712	transcription	+	120842592	120842592	95
chr9	120842968	120843017	transcription	+	120842592	120842592	400
chr17	74927797	74927846	transcription	+	74927634	74927634	187
chr17	74927882	74927931	transcription	+	74927634	74927634	272
chr17	74927982	74928031	transcription	+	74927634	74927634	372
chr2	18599173	18599222	transcription	+	18598644	18598644	553
chr2	18593927	18593976	transcription	+	18598644	18598644	-4692
chr2	18598935	18598984	transcription	+	18598644	18598644	315
chr11	70045593	70045642	transcription	-	70043223	70043223	-2394
chr11	70045708	70045757	transcription	-	70043223	70043223	-2510
chr11	70045808	70045857	transcription	-	70043223	70043223	-2610
chr11	70045918	70045971	transcription	-	70043223	70043223	-2721
chr11	70046008	70046057	transcription	-	70043223	70043223	-2809
chr8	111236411	111236460	transcription	+	111238543	111238543	-2107
chr8	111236231	111236280	transcription	+	111238543	111238543	-2287
chr8	111236321	111236370	transcription	+	111238543	111238543	-2197
chr8	111236121	111236170	transcription	+	111238543	111238543	-2397
chr8	111236916	111236965	transcription	+	111238543	111238543	-1602
chr8	111236521	111236570	transcription	+	111238543	111238543	-1997
chr8	111236611	111236660	transcription	+	111238543	111238543	-1903
chr8	111236731	111236780	transcription	+	111238543	111238543	-1787
chr8	111236826	111236875	transcription	+	111238543	111238543	-1692
chr8	111237011	111237060	transcription	+	111238543	111238543	-1507
chr8	111237558	111237607	transcription	+	111238543	111238543	-960
chr8	111237131	111237180	transcription	+	111238543	111238543	-1385
chr8	111237658	111237707	transcription	+	111238543	111238543	-860
chr8	111237312	111237361	transcription	+	111238543	111238543	-1206
chr8	111237458	111237507	transcription	+	111238543	111238543	-1060

chr8	111237226	111237275	transcription	+	111238543	111238543	-1292
chr8	111238951	111239000	transcription	+	111238543	111238543	432
chr8	111239256	111239305	transcription	+	111238543	111238543	737
chr15	98593402	98593451	transcription	-	98593549	98593549	122
chr15	98593212	98593261	transcription	-	98593549	98593549	312
chr15	98593297	98593346	transcription	-	98593549	98593549	227
chr15	98593497	98593546	transcription	-	98593549	98593549	27
chr16	85173829	85173878	transcription	-	85173948	85173948	94
chr16	85173434	85173483	transcription	-	85173948	85173948	489
chr16	85173534	85173583	transcription	-	85173948	85173948	389
chr16	85173629	85173678	transcription	-	85173948	85173948	294
chr16	85173228	85173277	transcription	-	85173948	85173948	695
chr16	85173339	85173388	transcription	-	85173948	85173948	584
chr15	98439341	98439390	transcription	-	98438064	98438064	-1301
chr15	98439549	98439598	transcription	-	98438064	98438064	-1509
chr15	98439441	98439490	transcription	-	98438064	98438064	-1401
chr15	98438746	98438795	transcription	-	98438064	98438064	-706
chr15	98438626	98438675	transcription	-	98438064	98438064	-586
chr1	137180336	137180385	transcription	-	137180661	137180661	300
chr1	137180031	137180080	transcription	-	137180661	137180661	605
chr1	137180421	137180470	transcription	-	137180661	137180661	215
chr8	123057898	123057947	transcription	+	123059756	123059756	-1833
chr8	123057998	123058047	transcription	+	123059756	123059756	-1733
chr8	123058098	123058147	transcription	+	123059756	123059756	-1633
chr8	123058203	123058252	transcription	+	123059756	123059756	-1528
chr8	123057898	123057947	transcription	+	123061308	123061308	-3385
chr8	123057998	123058047	transcription	+	123061308	123061308	-3285
chr8	123058098	123058147	transcription	+	123061308	123061308	-3185
chr8	123058203	123058252	transcription	+	123061308	123061308	-3080
chr4	116926755	116926804	transcription	-	116924522	116924522	-2257
chr4	116926875	116926924	transcription	-	116924522	116924522	-2377
chr4	116926980	116927029	transcription	-	116924522	116924522	-2482
chr4	116927080	116927129	transcription	-	116924522	116924522	-2582
chr4	116927160	116927209	transcription	-	116924522	116924522	-2662
chr4	116926655	116926704	transcription	-	116924522	116924522	-2157
chr4	116927265	116927314	transcription	-	116924522	116924522	-2767
chr4	116926535	116926584	transcription	-	116924522	116924522	-2037
chr7	108598356	108598405	transcription	+	108599765	108599765	-1384
chr7	108598461	108598510	transcription	+	108599765	108599765	-1279
chr7	108598576	108598625	transcription	+	108599765	108599765	-1164
chr12	111685202	111685251	transcription	+	111685388	111685388	-161
chr12	111685297	111685346	transcription	+	111685388	111685388	-66
chr12	111685387	111685436	transcription	+	111685388	111685388	23
chr2	158056887	158056936	transcription	-	158054958	158054958	-1953
chr2	158056777	158056826	transcription	-	158054958	158054958	-1843
chr2	158057017	158057066	transcription	-	158054958	158054958	-2083
chr2	158057112	158057161	transcription	-	158054958	158054958	-2178
chr2	158057197	158057246	transcription	-	158054958	158054958	-2263
chr6	51494307	51494363	transcription	+	51494521	51494521	-186
chr6	51494392	51494443	transcription	+	51494521	51494521	-103
chr6	51494611	51494660	transcription	+	51494521	51494521	114
chr6	51494931	51494980	transcription	+	51494521	51494521	434
chr1	107887419	107887468	transcription	+	107886982	107886982	461

chr1	107887499	107887548	transcription	+	107886982	107886982	541
chr1	107887619	107887668	transcription	+	107886982	107886982	661
chr1	107887919	107887968	transcription	+	107886982	107886982	961
chr1	107887709	107887758	transcription	+	107886982	107886982	751
chr1	107887804	107887853	transcription	+	107886982	107886982	846
chr1	107887419	107887468	transcription	+	107886982	107886982	461
chr1	107887499	107887548	transcription	+	107886982	107886982	541
chr1	107887619	107887668	transcription	+	107886982	107886982	661
chr1	107887919	107887968	transcription	+	107886982	107886982	961
chr1	107887709	107887758	transcription	+	107886982	107886982	751
chr1	107887804	107887853	transcription	+	107886982	107886982	846
chr17	27238850	27238899	transcription	-	27238385	27238385	-489
chr17	27238950	27238999	transcription	-	27238385	27238385	-589
chr17	27239065	27239114	transcription	-	27238385	27238385	-704
chr17	27239165	27239214	transcription	-	27238385	27238385	-804
chr17	27239270	27239320	transcription	-	27238385	27238385	-910
chr17	27239350	27239407	transcription	-	27238385	27238385	-993
chr17	27239470	27239520	transcription	-	27238385	27238385	-1110
chr9	107896824	107896873	transcription	+	107897371	107897371	-522
chr9	107896934	107896986	transcription	+	107897371	107897371	-411
chr9	107897034	107897083	transcription	+	107897371	107897371	-312
chr9	107897134	107897183	transcription	+	107897371	107897371	-212
chr9	107896734	107896795	transcription	+	107897371	107897371	-606
chr3	122322444	122322493	transcription	-	122322585	122322585	116
chr3	122322339	122322388	transcription	-	122322585	122322585	221
chr3	122322524	122322573	transcription	-	122322585	122322585	36
chr19	34953215	34953264	transcription	-	34953945	34953945	705
chr19	34953315	34953364	transcription	-	34953945	34953945	605
chr19	34952915	34952964	transcription	-	34953945	34953945	1005
chr19	34953005	34953054	transcription	-	34953945	34953945	915
chr7	28119749	28119798	transcription	-	28118667	28118667	-1106
chr7	28119639	28119688	transcription	-	28118667	28118667	-996
chr7	28119836	28119885	transcription	-	28118667	28118667	-1193
chr3	33919292	33919341	transcription	+	33919000	33919000	316
chr3	33919591	33919640	transcription	+	33919000	33919000	615
chr3	33919407	33919456	transcription	+	33919000	33919000	431
chr3	33919292	33919341	transcription	+	33919000	33919000	316
chr3	33919591	33919640	transcription	+	33919000	33919000	615
chr3	33919407	33919456	transcription	+	33919000	33919000	431
chr8	127421858	127421907	transcription	+	127421785	127421785	97
chr8	127421973	127422022	transcription	+	127421785	127421785	212
chr8	127421653	127421702	transcription	+	127421785	127421785	-107
chr4	141766502	141766551	transcription	-	141766123	141766123	-403
chr4	141766287	141766336	transcription	-	141766123	141766123	-188
chr4	141766407	141766456	transcription	-	141766123	141766123	-308
chr4	141766192	141766241	transcription	-	141766123	141766123	-93
chr4	133812453	133812502	transcription	-	133810021	133810021	-2456
chr4	133812333	133812382	transcription	-	133810021	133810021	-2336
chr4	133812233	133812282	transcription	-	133810021	133810021	-2236
chr17	28489452	28489501	transcription	-	28487545	28487545	-1931
chr17	28489342	28489391	transcription	-	28487545	28487545	-1821
chr17	28489247	28489296	transcription	-	28487545	28487545	-1726
chr17	28489152	28489201	transcription	-	28487545	28487545	-1631



chr8	79423692	79423741	transcription	+	79426406	79426406	-2689
chr8	79423777	79423826	transcription	+	79426406	79426406	-2604
chr8	79423892	79423941	transcription	+	79426406	79426406	-2489
chr2	118529577	118529626	transcription	-	118529699	118529699	97
chr2	118529055	118529104	transcription	-	118529699	118529699	619
chr2	118531083	118531132	transcription	-	118529699	118529699	-1408
chr4	8617334	8617383	transcription	+	8618067	8618067	-708
chr4	8618634	8618683	transcription	+	8618067	8618067	591
chr4	8618739	8618788	transcription	+	8618067	8618067	696
chr5	25003929	25003978	transcription	-	25004601	25004601	647
chr5	25004029	25004078	transcription	-	25004601	25004601	547
chr5	25004146	25004195	transcription	-	25004601	25004601	430
chr5	25004231	25004280	transcription	-	25004601	25004601	345
chr5	25004331	25004380	transcription	-	25004601	25004601	245
chr7	73254248	73254297	transcription	+	73254400	73254400	-127
chr7	73254147	73254196	transcription	+	73254400	73254400	-228
chr7	73254853	73254902	transcription	+	73254400	73254400	477
chr9	40772225	40772274	transcription	-	40772195	40772195	-54
chr9	40772009	40772058	transcription	-	40772195	40772195	161
chr9	40772310	40772359	transcription	-	40772195	40772195	-139
chr9	40772105	40772154	transcription	-	40772195	40772195	65
chr9	40771924	40771973	transcription	-	40772195	40772195	246
chr9	40771809	40771858	transcription	-	40772195	40772195	361
chr10	121484609	121484658	transcription	-	121484249	121484249	-384
chr10	121484709	121484758	transcription	-	121484249	121484249	-484
chr10	121484814	121484863	transcription	-	121484249	121484249	-589
chr4	107474928	107474977	transcription	+	107474863	107474863	89
chr4	107474838	107474887	transcription	+	107474863	107474863	0
chr4	107474728	107474777	transcription	+	107474863	107474863	-110
chr11	51419813	51419862	transcription	-	51420383	51420383	545
chr11	51419618	51419667	transcription	-	51420383	51420383	740
chr11	51419698	51419747	transcription	-	51420383	51420383	660
chr11	69211657	69211706	transcription	-	69208848	69208848	-2833
chr11	69211757	69211806	transcription	-	69208848	69208848	-2933
chr11	69211862	69211911	transcription	-	69208848	69208848	-3038
chr11	69211957	69212006	transcription	-	69208848	69208848	-3133
chr2	151667950	151667999	transcription	+	151668662	151668662	-687
chr2	151668050	151668101	transcription	+	151668662	151668662	-586
chr2	151668135	151668184	transcription	+	151668662	151668662	-502
chr2	151668230	151668279	transcription	+	151668662	151668662	-407
chr2	151668346	151668395	transcription	+	151668662	151668662	-291
chr2	151668471	151668520	transcription	+	151668662	151668662	-166
chr12	106103148	106103197	transcription	-	106103286	106103286	113
chr12	106103068	106103117	transcription	-	106103286	106103286	193
chr12	106103248	106103297	transcription	-	106103286	106103286	13
chr12	106103366	106103415	transcription	-	106103286	106103286	-104
chr7	17396775	17396824	transcription	+	17401655	17401655	-4855
chr7	17396885	17396934	transcription	+	17401655	17401655	-4745
chr7	17397080	17397129	transcription	+	17401655	17401655	-4550
chr1	153191995	153192044	transcription	+	153191627	153191627	392
chr1	153192100	153192149	transcription	+	153191627	153191627	497
chr1	153191810	153191859	transcription	+	153191627	153191627	207
chr1	153191995	153192044	transcription	+	153191627	153191627	392

chr1	153192100	153192149	transcription	+	153191627	153191627	497
chr1	153191810	153191859	transcription	+	153191627	153191627	207
chr2	28048775	28048824	transcription	+	28048612	28048612	187
chr2	28048875	28048924	transcription	+	28048612	28048612	287
chr2	28048675	28048724	transcription	+	28048612	28048612	87
chr2	28048775	28048824	transcription	+	28048612	28048612	187
chr2	28048875	28048924	transcription	+	28048612	28048612	287
chr2	28048675	28048724	transcription	+	28048612	28048612	87
chr1	64579933	64579982	transcription	+	64579377	64579377	580
chr1	64579323	64579372	transcription	+	64579377	64579377	-29
chr1	64579438	64579487	transcription	+	64579377	64579377	85
chr1	64579533	64579582	transcription	+	64579377	64579377	180
chr1	64579818	64579867	transcription	+	64579377	64579377	465
chr6	113841031	113841080	transcription	-	113841370	113841370	314
chr6	113840731	113840780	transcription	-	113841370	113841370	614
chr6	113840931	113840980	transcription	-	113841370	113841370	414
chr6	113840631	113840680	transcription	-	113841370	113841370	714
chr6	113840851	113840900	transcription	-	113841370	113841370	494
chr7	66484644	66484693	transcription	+	66484121	66484121	547
chr7	66484744	66484793	transcription	+	66484121	66484121	647
chr7	66484234	66484283	transcription	+	66484121	66484121	137
chr7	73985129	73985178	transcription	+	73984620	73984620	533
chr7	73984914	73984963	transcription	+	73984620	73984620	318
chr7	73985029	73985078	transcription	+	73984620	73984620	433
chr9	21992778	21992827	transcription	+	21992609	21992609	193
chr9	21992678	21992727	transcription	+	21992609	21992609	93
chr9	21992888	21992937	transcription	+	21992609	21992609	303
chr4	116926755	116926804	transcription	-	116924522	116924522	-2257
chr4	116926875	116926924	transcription	-	116924522	116924522	-2377
chr4	116926980	116927029	transcription	-	116924522	116924522	-2482
chr4	116927080	116927129	transcription	-	116924522	116924522	-2582
chr4	116927160	116927209	transcription	-	116924522	116924522	-2662
chr4	116926655	116926704	transcription	-	116924522	116924522	-2157
chr4	116927265	116927314	transcription	-	116924522	116924522	-2767
chr4	116926535	116926584	transcription	-	116924522	116924522	-2037
chr4	107973405	107973454	transcription	-	107973695	107973695	265
chr4	107973505	107973554	transcription	-	107973695	107973695	165
chr4	107973595	107973644	transcription	-	107973695	107973695	75
chr14	75347067	75347116	transcription	-	75347684	75347684	592
chr14	75347377	75347426	transcription	-	75347684	75347684	282
chr14	75347277	75347326	transcription	-	75347684	75347684	382
chr1	187279108	187279157	transcription	+	187278726	187278726	406
chr1	187279003	187279052	transcription	+	187278726	187278726	301
chr1	187279198	187279247	transcription	+	187278726	187278726	496
chr1	187278913	187278962	transcription	+	187278726	187278726	211
chr18	53624053	53624102	transcription	+	53624199	53624199	-121
chr18	53624148	53624197	transcription	+	53624199	53624199	-26
chr18	53624253	53624302	transcription	+	53624199	53624199	78
chr13	34436400	34436449	transcription	-	34437051	34437051	626
chr13	34436305	34436354	transcription	-	34437051	34437051	721
chr13	34437334	34437383	transcription	-	34437051	34437051	-307
chr8	107792238	107792287	transcription	-	107788494	107788494	-3768
chr8	107792148	107792197	transcription	-	107788494	107788494	-3678



chr8	107791223	107791272	transcription	-	107788494	107788494	-2753
chr8	107791318	107791368	transcription	-	107788494	107788494	-2849
chr8	107791848	107791903	transcription	-	107788494	107788494	-3381
chr8	107791943	107791992	transcription	-	107788494	107788494	-3473
chr8	107792048	107792097	transcription	-	107788494	107788494	-3578
chr8	107792348	107792397	transcription	-	107788494	107788494	-3878
chr8	107792448	107792497	transcription	-	107788494	107788494	-3978
chr8	107791103	107791161	transcription	-	107788494	107788494	-2638
chr8	107791553	107791609	transcription	-	107788494	107788494	-3087
chr8	107791473	107791522	transcription	-	107788494	107788494	-3003
chr8	107791658	107791707	transcription	-	107788494	107788494	-3188
chr3	88339425	88339474	transcription	+	88339969	88339969	-519
chr3	88339820	88339869	transcription	+	88339969	88339969	-124
chr3	88339915	88339964	transcription	+	88339969	88339969	-29
chr3	88340000	88340049	transcription	+	88339969	88339969	55
chr3	88340120	88340169	transcription	+	88339969	88339969	175
chr10	111709119	111709168	transcription	+	111708178	111708178	965
chr10	111708619	111708668	transcription	+	111708178	111708178	465
chr10	111708739	111708788	transcription	+	111708178	111708178	585
chr10	111708524	111708573	transcription	+	111708178	111708178	370
chr10	111708819	111708868	transcription	+	111708178	111708178	665
chr10	111708439	111708488	transcription	+	111708178	111708178	285
chr10	111708924	111708973	transcription	+	111708178	111708178	770
chr10	111708319	111708368	transcription	+	111708178	111708178	165
chr2	157250181	157250230	transcription	+	157250028	157250028	177
chr2	157250292	157250341	transcription	+	157250028	157250028	288
chr2	157249991	157250040	transcription	+	157250028	157250028	-12
chr2	157250091	157250140	transcription	+	157250028	157250028	87
chr17	34258575	34258624	transcription	-	34257328	34257328	-1271
chr17	34258685	34258734	transcription	-	34257328	34257328	-1381
chr17	34258775	34258824	transcription	-	34257328	34257328	-1471
chr17	34258867	34258916	transcription	-	34257328	34257328	-1563
chr17	34258967	34259017	transcription	-	34257328	34257328	-1664
chr17	34259067	34259116	transcription	-	34257328	34257328	-1763
chr17	34259180	34259229	transcription	-	34257328	34257328	-1876
chr17	34259587	34259636	transcription	-	34257328	34257328	-2283
chr14	32028507	32028556	transcription	+	32031058	32031058	-2526
chr14	32028612	32028661	transcription	+	32031058	32031058	-2421
chr14	32028722	32028771	transcription	+	32031058	32031058	-2311
chr14	32028412	32028461	transcription	+	32031058	32031058	-2621
chr14	32028802	32028851	transcription	+	32031058	32031058	-2231
chr14	32028907	32028956	transcription	+	32031058	32031058	-2126
chr14	32029002	32029051	transcription	+	32031058	32031058	-2031
chr2	91771536	91771585	transcription	-	91771950	91771950	389
chr2	91771626	91771675	transcription	-	91771950	91771950	299
chr2	91771721	91771770	transcription	-	91771950	91771950	204
chr2	91771831	91771880	transcription	-	91771950	91771950	94
chr2	91771416	91771465	transcription	-	91771950	91771950	509
chr2	91771316	91771365	transcription	-	91771950	91771950	609
chr2	91771536	91771585	transcription	-	91771856	91771856	295
chr2	91771626	91771675	transcription	-	91771856	91771856	205
chr2	91771721	91771770	transcription	-	91771856	91771856	110
chr2	91771831	91771880	transcription	-	91771856	91771856	0

chr2	91771416	91771465	transcription	-	91771856	91771856	415
chr2	91771316	91771365	transcription	-	91771856	91771856	515
chr2	28302570	28302619	transcription	+	28303460	28303460	-865
chr2	28302655	28302704	transcription	+	28303460	28303460	-780
chr2	28302750	28302799	transcription	+	28303460	28303460	-685
chr2	28302257	28302306	transcription	+	28303460	28303460	-1178
chr3	108218676	108218725	transcription	-	108218412	108218412	-288
chr3	108218972	108219021	transcription	-	108218412	108218412	-584
chr3	108219097	108219146	transcription	-	108218412	108218412	-709
chr3	108219412	108219461	transcription	-	108218412	108218412	-1024
chr3	108219522	108219571	transcription	-	108218412	108218412	-1134
chr2	156247089	156247138	transcription	+	156246787	156246787	326
chr2	156246899	156246948	transcription	+	156246787	156246787	136
chr2	156246994	156247043	transcription	+	156246787	156246787	231
chr2	156247184	156247233	transcription	+	156246787	156246787	421
chr15	88890191	88890240	transcription	+	88890155	88890155	60
chr15	88890091	88890140	transcription	+	88890155	88890155	-39
chr15	88889891	88889940	transcription	+	88890155	88890155	-239
chr15	88889991	88890040	transcription	+	88890155	88890155	-139
chr16	18622255	18622304	transcription	-	18622496	18622496	216
chr16	18622160	18622209	transcription	-	18622496	18622496	311
chr16	18622060	18622109	transcription	-	18622496	18622496	411
Hypermethylated							
chr3	90409608	90409657	Primary Tran	+	90407691	90409964	805
chrX	100671281	100671341	Primary Tran	+	100626855	100680296	17735
chrX	100650001	100650050	Primary Tran	+	100626855	100680296	-3550
chrX	100650091	100650144	Primary Tran	+	100626855	100680296	-3458
chr17	80690888	80690940	Primary Tran	+	80689551	80696814	-2268
chr17	80692169	80692219	Primary Tran	+	80689551	80696814	-988
chr17	80690968	80691027	Primary Tran	+	80689551	80696814	-2185
chr17	80691979	80692038	Primary Tran	+	80689551	80696814	-1174
chr17	80692084	80692147	Primary Tran	+	80689551	80696814	-1067
chr13	99031435	99031489	Primary Tran	-	99016799	99032947	-6589
chr13	99031315	99031364	Primary Tran	-	99016799	99032947	-6466
chr13	99031517	99031566	Primary Tran	-	99016799	99032947	-6668
chr9	45711829	45711878	Primary Tran	-	45671773	45714960	-18487
chr9	45712164	45712226	Primary Tran	-	45671773	45714960	-18828
chr9	45711964	45712013	Primary Tran	-	45671773	45714960	-18622
chr11	116716387	116716440	Primary Tran	+	116715328	116736951	-9726
chr11	116716582	116716641	Primary Tran	+	116715328	116736951	-9528
chr11	116716492	116716541	Primary Tran	+	116715328	116736951	-9623
chr19	40478883	40478934	Primary Tran	-	40366529	40588226	-1531
chr19	40478683	40478732	Primary Tran	-	40366529	40588226	-1330
chr19	40478768	40478824	Primary Tran	-	40366529	40588226	-1418
chr17	70869110	70869159	Primary Tran	+	70774131	71170753	-103307
chr17	70868612	70868670	Primary Tran	+	70774131	71170753	-103801
chr17	70868708	70868757	Primary Tran	+	70774131	71170753	-103709
chr17	70868995	70869045	Primary Tran	+	70774131	71170753	-103422
chr5	139854912	139854961	Primary Tran	+	139853650	139856007	108
chr5	139854707	139854756	Primary Tran	+	139853650	139856007	-97
chr5	139854792	139854841	Primary Tran	+	139853650	139856007	-12

chr5	139854992	139855041	Primary Tran	+	139853650	139856007	188
chr11	115463484	115463533	Primary Tran	-	115445568	115465220	-8114
chr11	115463604	115463653	Primary Tran	-	115445568	115465220	-8234
chr11	115463699	115463748	Primary Tran	-	115445568	115465220	-8329
chrX	154007055	154007104	Primary Tran	-	153985753	154036647	4120
chrX	154007175	154007231	Primary Tran	-	153985753	154036647	3997
chrX	154007255	154007306	Primary Tran	-	153985753	154036647	3919
chrX	154007365	154007417	Primary Tran	-	153985753	154036647	3809
chr17	36109119	36109171	Primary Tran	-	36109485	36117181	4188
chr17	36109214	36109279	Primary Tran	-	36109485	36117181	4086
chr17	36109309	36109358	Primary Tran	-	36109485	36117181	3999
chr10	80091781	80091830	Primary Tran	+	80085524	80103516	-2714
chr10	80091871	80091920	Primary Tran	+	80085524	80103516	-2624
chr10	80091981	80092030	Primary Tran	+	80085524	80103516	-2514
chr16	4627011	4627060	Primary Tran	-	4626883	4679720	26266
chr16	4627111	4627160	Primary Tran	-	4626883	4679720	26166
chr16	4627226	4627275	Primary Tran	-	4626883	4679720	26051
chr5	121040830	121040879	Primary Tran	+	121039031	121057122	-7222
chr5	121041245	121041299	Primary Tran	+	121039031	121057122	-6804
chr5	121040945	121041001	Primary Tran	+	121039031	121057122	-7103
chr5	121041025	121041083	Primary Tran	+	121039031	121057122	-7022
chr5	121041145	121041194	Primary Tran	+	121039031	121057122	-6907
chr5	121041470	121041528	Primary Tran	+	121039031	121057122	-6577
chr7	109212069	109212129	Primary Tran	-	109168385	109213646	-21083
chr7	109212174	109212228	Primary Tran	-	109168385	109213646	-21185
chr7	109211979	109212028	Primary Tran	-	109168385	109213646	-20988
chr7	109212284	109212334	Primary Tran	-	109168385	109213646	-21293
chr10	85060413	85060474	Primary Tran	+	84849558	85123036	74146
chr10	85060644	85060700	Primary Tran	+	84849558	85123036	74375
chr10	85060739	85060788	Primary Tran	+	84849558	85123036	74466
chr10	85060829	85060878	Primary Tran	+	84849558	85123036	74556
chr10	85060939	85060988	Primary Tran	+	84849558	85123036	74666
chr5	139854912	139854961	Primary Tran	-	139835692	139936488	31153
chr5	139854307	139854356	Primary Tran	-	139835692	139936488	31758
chr5	139854412	139854461	Primary Tran	-	139835692	139936488	31653
chr5	139854492	139854553	Primary Tran	-	139835692	139936488	31567
chr5	139854592	139854641	Primary Tran	-	139835692	139936488	31473
chr5	139854707	139854756	Primary Tran	-	139835692	139936488	31358
chr5	139854792	139854841	Primary Tran	-	139835692	139936488	31273
chr5	139854212	139854261	Primary Tran	-	139835692	139936488	31853
chr5	139854992	139855041	Primary Tran	-	139835692	139936488	31073
chr5	139854112	139854161	Primary Tran	-	139835692	139936488	31953
chr3	30542261	30542317	Primary Tran	-	30523188	30546740	-7325
chr3	30542061	30542110	Primary Tran	-	30523188	30546740	-7121
chr3	30542166	30542215	Primary Tran	-	30523188	30546740	-7226
chr17	70869110	70869159	Primary Tran	+	70774131	71166069	-100965
chr17	70868612	70868670	Primary Tran	+	70774131	71166069	-101459
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chr17	70868995	70869045	Primary Tran	+	70774131	71166069	-101080
chr4	146550285	146550334	Primary Tran	+	146237770	146556724	153062
chr4	146550430	146550482	Primary Tran	+	146237770	146556724	153209
chr4	146550515	146550564	Primary Tran	+	146237770	146556724	153292
chr15	78973035	78973086	Primary Tran	+	78971796	78982197	-3936

chr15	78974563	78974612	Primary Tran	+	78971796	78982197	-2409
chr15	78974483	78974532	Primary Tran	+	78971796	78982197	-2489
chr14	37748164	37748213	Primary Tran	-	37688121	37781950	-13153
chr14	37748249	37748306	Primary Tran	-	37688121	37781950	-13242
chr14	37748464	37748514	Primary Tran	-	37688121	37781950	-13453
chr14	37748339	37748396	Primary Tran	-	37688121	37781950	-13332
chr1_random	171263	171312	Primary Tran	-	48173	185338	-54532
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chr1_random	170848	170917	Primary Tran	-	48173	185338	-54127
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chr1_random	171153	171209	Primary Tran	-	48173	185338	-54425
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chr14	76354821	76354870	Primary Tran	-	76296743	76410672	-1138
chr14	76355221	76355272	Primary Tran	-	76296743	76410672	-1539
chr14	76354901	76354958	Primary Tran	-	76296743	76410672	-1222
chr14	76355001	76355054	Primary Tran	-	76296743	76410672	-1320
chr10	119661958	119662014	Primary Tran	+	119645881	119661953	8069
chr10	119661878	119661935	Primary Tran	+	119645881	119661953	7989
chr10	119661773	119661822	Primary Tran	+	119645881	119661953	7880
chr7	71534996	71535057	Primary Tran	-	71521426	71537122	-5752
chr7	71535121	71535173	Primary Tran	-	71521426	71537122	-5873
chr7	71535201	71535250	Primary Tran	-	71521426	71537122	-5951
chr14	76509206	76509259	Primary Tran	-	76486038	76510622	-10902
chr14	76509396	76509451	Primary Tran	-	76486038	76510622	-11093
chr14	76509533	76509586	Primary Tran	-	76486038	76510622	-11229
chr8	26893744	26893793	Primary Tran	-	26875010	26895681	-8423
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chr8	26893644	26893696	Primary Tran	-	26875010	26895681	-8324
chr8	26893534	26893583	Primary Tran	-	26875010	26895681	-8213
chr8	26893439	26893495	Primary Tran	-	26875010	26895681	-8121
chr2	174292324	174292376	Primary Tran	-	174290591	174298442	2166
chr2	174291814	174291863	Primary Tran	-	174290591	174298442	2678
chr2	174291737	174291794	Primary Tran	-	174290591	174298442	2751
chr2	174291532	174291581	Primary Tran	-	174290591	174298442	2960
chr2	174291617	174291677	Primary Tran	-	174290591	174298442	2869
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chr11	17110051	17110100	Primary Tran	-	17103202	17111592	-2678
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chr11	17109836	17109894	Primary Tran	-	17103202	17111592	-2468
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chr9	64025515	64025564	Primary Tran	+	64021193	64026369	1758
chr3	129584027	129584076	Primary Tran	+	129581539	129598739	-6087
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chr3	129584412	129584462	Primary Tran	+	129581539	129598739	-5702
chr17	87427185	87427234	Primary Tran	+	87424935	87435150	-2833
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chrX	70958987	70959037	Primary Tran	-	70931521	70961514	-12494

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chrX	70959187	70959244	Primary Tran	-	70931521	70961514	-12698
chr4	150299351	150299401	Primary Tran	+	150294263	150320211	-7861
chr4	150299466	150299515	Primary Tran	+	150294263	150320211	-7746
chr4	150299571	150299621	Primary Tran	+	150294263	150320211	-7641
chr3	90409683	90409732	Primary Tran	+	90407691	90409964	880
chr3	90409783	90409832	Primary Tran	+	90407691	90409964	980
chr3	90409903	90409952	Primary Tran	+	90407691	90409964	1100
chr10	59744950	59745001	Primary Tran	+	59740375	59765347	-7885
chr10	59745055	59745104	Primary Tran	+	59740375	59765347	-7781
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chr10	59745260	59745309	Primary Tran	+	59740375	59765347	-7576
chr10	59745365	59745414	Primary Tran	+	59740375	59765347	-7471
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chr15	102350119	102350173	Primary Tran	+	102348676	102354107	-1245
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chr19	40478883	40478934	Primary Tran	-	40366529	40588302	-1493
chr19	40478683	40478732	Primary Tran	-	40366529	40588302	-1292
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chr14	30823632	30823681	Primary Tran	+	30822185	30853652	-14262
chr14	30824737	30824786	Primary Tran	+	30822185	30853652	-13157
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chr1	65231023	65231074	Primary Tran	-	65205189	65233053	-11927
chr1	65231113	65231169	Primary Tran	-	65205189	65233053	-12020
chr1	65231218	65231274	Primary Tran	-	65205189	65233053	-12125
chr4	146550285	146550334	Primary Tran	+	146506201	146554688	19865
chr4	146550430	146550482	Primary Tran	+	146506201	146554688	20011
chr4	146550515	146550564	Primary Tran	+	146506201	146554688	20095
chr4	150299351	150299401	Primary Tran	+	150294263	150320211	-7861
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chr13	54889536	54889585	Primary Tran	+	54885380	54888837	2452
chr13	54889616	54889665	Primary Tran	+	54885380	54888837	2532
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chr2	163517956	163518005	Primary Tran	+	163484186	163551894	-59
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chr2	163517841	163517897	Primary Tran	+	163484186	163551894	-171
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chr19	40478883	40478934	Primary Tran	-	40366529	40525888	-32700
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chr13	54889536	54889585	Primary Tran	+	54885363	54889819	1969
chr13	54889616	54889665	Primary Tran	+	54885363	54889819	2049
chr13	54889716	54889765	Primary Tran	+	54885363	54889819	2149
chr8	47058865	47058914	Primary Tran	-	47038959	47060606	-9107
chr8	47058970	47059023	Primary Tran	-	47038959	47060606	-9214
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chr2	25431299	25431348	Primary Tran	-	25430935	25435619	1953
chr2	25431399	25431448	Primary Tran	-	25430935	25435619	1853
chr2	25431519	25431568	Primary Tran	-	25430935	25435619	1733
chr2	25431599	25431648	Primary Tran	-	25430935	25435619	1653
chr16	5135354	5135405	transcription	-	5132574	5132574	-2805
chr16	5135239	5135288	transcription	-	5132574	5132574	-2689
chr11	112574176	112574225	transcription	-	112572670	112572670	-1530
chr11	112574271	112574320	transcription	-	112572670	112572670	-1625
chr11	112574071	112574120	transcription	-	112572670	112572670	-1425
chr14	31946601	31946650	transcription	-	31942109	31942109	-4516
chr14	31946701	31946750	transcription	-	31942109	31942109	-4616
chr14	31946781	31946830	transcription	-	31942109	31942109	-4696
chr14	31946496	31946545	transcription	-	31942109	31942109	-4411
chr14	31946186	31946235	transcription	-	31942109	31942109	-4101
chr14	31946281	31946330	transcription	-	31942109	31942109	-4196
chr14	31946396	31946445	transcription	-	31942109	31942109	-4311
chr7	18258042	18258099	transcription	+	18257661	18257661	409
chr7	18257627	18257676	transcription	+	18257661	18257661	-9
chr7	18257732	18257782	transcription	+	18257661	18257661	96
chr7	18257847	18257896	transcription	+	18257661	18257661	210
chr7	18257927	18257984	transcription	+	18257661	18257661	294



chr1	135651126	135651175	transcription	-	135649858	135649858	-1292
chr1	135651341	135651390	transcription	-	135649858	135649858	-1507
chr1	135651547	135651596	transcription	-	135649858	135649858	-1713
chr15	79920114	79920175	transcription	+	79921763	79921763	-1618
chr15	79920219	79920268	transcription	+	79921763	79921763	-1519
chr15	79920514	79920563	transcription	+	79921763	79921763	-1224
chr15	79920624	79920678	transcription	+	79921763	79921763	-1112
chr14	51691536	51691592	transcription	-	51691066	51691066	-498
chr14	51691646	51691708	transcription	-	51691066	51691066	-611
chr14	51691726	51691778	transcription	-	51691066	51691066	-686
chr14	51691826	51691885	transcription	-	51691066	51691066	-789
chr14	51691949	51692003	transcription	-	51691066	51691066	-910
chr14	51692039	51692097	transcription	-	51691066	51691066	-1002
chr14	51691426	51691475	transcription	-	51691066	51691066	-384
chr12	36651891	36651940	transcription	+	36652279	36652279	-363
chr12	36651986	36652039	transcription	+	36652279	36652279	-266
chr12	36651791	36651844	transcription	+	36652279	36652279	-461
chr17	75865568	75865627	transcription	+	75864952	75864952	645
chr17	75865388	75865444	transcription	+	75864952	75864952	464
chr17	75865488	75865544	transcription	+	75864952	75864952	564
chr11	73415257	73415306	transcription	+	73416083	73416083	-801
chr11	73413847	73413903	transcription	+	73416083	73416083	-2208
chr11	73413632	73413683	transcription	+	73416083	73416083	-2425
chr11	73413727	73413788	transcription	+	73416083	73416083	-2325
chr7	25492252	25492301	transcription	+	25494277	25494277	-2000
chr7	25492515	25492564	transcription	+	25494277	25494277	-1737
chr7	25492740	25492789	transcription	+	25494277	25494277	-1512
chr7	25233279	25233337	transcription	-	25230701	25230701	-2607
chr7	25233364	25233413	transcription	-	25230701	25230701	-2687
chr7	25233474	25233523	transcription	-	25230701	25230701	-2797
chr17	80690888	80690940	transcription	-	80689816	80689816	-1098
chr17	80692169	80692219	transcription	-	80689816	80689816	-2378
chr17	80690968	80691027	transcription	-	80689816	80689816	-1181
chr17	80691979	80692038	transcription	-	80689816	80689816	-2192
chr17	80692084	80692147	transcription	-	80689816	80689816	-2299
chr7	134870013	134870062	transcription	-	134869130	134869130	-907
chr7	134870093	134870142	transcription	-	134869130	134869130	-987
chr7	134870213	134870262	transcription	-	134869130	134869130	-1107
chr10	75416049	75416098	transcription	+	75417258	75417258	-1184
chr10	75415969	75416021	transcription	+	75417258	75417258	-1263
chr10	75415859	75415908	transcription	+	75417258	75417258	-1374
chr10	75417740	75417796	transcription	+	75417258	75417258	510
chr10	75415549	75415606	transcription	+	75417258	75417258	-1680
chr10	75415669	75415728	transcription	+	75417258	75417258	-1559
chr10	75415754	75415804	transcription	+	75417258	75417258	-1479
chr11	78567398	78567448	transcription	-	78565231	78565231	-2192
chr11	78567278	78567328	transcription	-	78565231	78565231	-2072
chr11	78567498	78567547	transcription	-	78565231	78565231	-2291
chr3	129584027	129584076	transcription	+	129584101	129584101	-49
chr3	129584112	129584161	transcription	+	129584101	129584101	35
chr3	129584412	129584462	transcription	+	129584101	129584101	336
chrX	130696650	130696702	transcription	-	130696467	130696467	-209
chrX	130696730	130696779	transcription	-	130696467	130696467	-287

chrX	130696840	130696889	transcription	-	130696467	130696467	-397
chrX	130696340	130696389	transcription	-	130696467	130696467	102
chrX	130696445	130696494	transcription	-	130696467	130696467	-2
chrX	130696535	130696584	transcription	-	130696467	130696467	-92
chrX	130696150	130696200	transcription	-	130696467	130696467	292
chrX	130696250	130696306	transcription	-	130696467	130696467	189
chr9	64023435	64023484	transcription	+	64027103	64027103	-3643
chr9	64025395	64025452	transcription	+	64027103	64027103	-1679
chr9	64025515	64025564	transcription	+	64027103	64027103	-1563
chr12	101400221	101400283	transcription	-	101397863	101397863	-2389
chr12	101400321	101400370	transcription	-	101397863	101397863	-2482
chr12	101400401	101400450	transcription	-	101397863	101397863	-2562
chr19	38169024	38169073	transcription	+	38171568	38171568	-2519
chr19	38168824	38168886	transcription	+	38171568	38171568	-2713
chr19	38168719	38168771	transcription	+	38171568	38171568	-2823
chr11	171110051	171110100	transcription	+	17111895	17111895	-1819
chr11	17109746	17109807	transcription	+	17111895	17111895	-2118
chr11	17109836	17109894	transcription	+	17111895	17111895	-2030
chr11	17109941	17110001	transcription	+	17111895	17111895	-1924
chr6	140570994	140571050	transcription	+	140571183	140571183	-161
chr6	140571089	140571138	transcription	+	140571183	140571183	-69
chr6	140571309	140571358	transcription	+	140571183	140571183	150
chr6	140571399	140571448	transcription	+	140571183	140571183	240
chr3	144764804	144764853	transcription	-	144762005	144762005	-2823
chr3	144761388	144761437	transcription	-	144762005	144762005	592
chr3	144761483	144761532	transcription	-	144762005	144762005	497
chr3	144764699	144764748	transcription	-	144762005	144762005	-2718
chr3	144761573	144761622	transcription	-	144762005	144762005	407
chr9	43050707	43050756	transcription	-	43047899	43047899	-2832
chr9	43050587	43050636	transcription	-	43047899	43047899	-2712
chr9	43050487	43050549	transcription	-	43047899	43047899	-2619
chr7	4014592	4014641	transcription	-	4014806	4014806	189
chr7	4014692	4014741	transcription	-	4014806	4014806	89
chr7	4014797	4014846	transcription	-	4014806	4014806	-15
chr10	110180506	110180560	transcription	+	110182520	110182520	-1987
chr10	110180184	110180239	transcription	+	110182520	110182520	-2308
chr10	110180264	110180324	transcription	+	110182520	110182520	-2226
chr10	110180385	110180441	transcription	+	110182520	110182520	-2107
chr10	110180651	110180701	transcription	+	110182520	110182520	-1844
chr10	110179879	110179935	transcription	+	110182520	110182520	-2613
chr10	110180064	110180120	transcription	+	110182520	110182520	-2428
chr10	110179964	110180020	transcription	+	110182520	110182520	-2528
chr7	135040708	135040757	transcription	-	135039131	135039131	-1601
chr7	135040803	135040852	transcription	-	135039131	135039131	-1696
chr7	135041063	135041112	transcription	-	135039131	135039131	-1956
chr7	135041163	135041214	transcription	-	135039131	135039131	-2057
chr3	35953704	35953755	transcription	-	35952469	35952469	-1260
chr3	35953819	35953868	transcription	-	35952469	35952469	-1374
chr3	35953624	35953684	transcription	-	35952469	35952469	-1185
chr9	66561111	66561168	transcription	+	66561492	66561492	-352
chr9	66561211	66561260	transcription	+	66561492	66561492	-256
chr9	66561311	66561360	transcription	+	66561492	66561492	-156
chr16	4001346	4001395	transcription	-	4001680	4001680	309

chr16	4001446	4001495	transcription	-	4001680	4001680	209
chr16	4001551	4001600	transcription	-	4001680	4001680	104
chr16	4001251	4001300	transcription	-	4001680	4001680	404
chr4	84528942	84528991	transcription	+	84530230	84530230	-1263
chr4	84528642	84528704	transcription	+	84530230	84530230	-1557
chr4	84528722	84528780	transcription	+	84530230	84530230	-1479
chr4	84528842	84528894	transcription	+	84530230	84530230	-1362
chr3	62408426	62408480	transcription	-	62409062	62409062	609
chr3	62408631	62408680	transcription	-	62409062	62409062	406
chr3	62408831	62408893	transcription	-	62409062	62409062	200
chr3	62408746	62408795	transcription	-	62409062	62409062	291
chr3	62409021	62409070	transcription	-	62409062	62409062	16
chr18	60785132	60785181	transcription	-	60783959	60783959	-1197
chr18	60785437	60785486	transcription	-	60783959	60783959	-1502
chr18	60785542	60785605	transcription	-	60783959	60783959	-1614
chr5	92474626	92474676	transcription	-	92472032	92472032	-2619
chr5	92474766	92474823	transcription	-	92472032	92472032	-2762
chr5	92473654	92473710	transcription	-	92472032	92472032	-1650
chr5	92474526	92474575	transcription	-	92472032	92472032	-2518
chr4	155481258	155481316	transcription	+	155484106	155484106	-2819
chr4	155482093	155482142	transcription	+	155484106	155484106	-1988
chr4	155481368	155481426	transcription	+	155484106	155484106	-2709
chr4	155481448	155481504	transcription	+	155484106	155484106	-2630
chr8	108376435	108376484	transcription	-	108375908	108375908	-551
chr8	108376560	108376612	transcription	-	108375908	108375908	-678
chr8	108376645	108376694	transcription	-	108375908	108375908	-761
chr5	139854212	139854261	transcription	+	139853650	139853650	586
chr5	139854307	139854356	transcription	+	139853650	139853650	681
chr5	139854412	139854461	transcription	+	139853650	139853650	786
chr5	139854492	139854553	transcription	+	139853650	139853650	872
chr5	139854592	139854641	transcription	+	139853650	139853650	966
chr5	139854112	139854161	transcription	+	139853650	139853650	486
chr3	116266613	116266662	transcription	+	116265939	116265939	698
chr3	116266528	116266588	transcription	+	116265939	116265939	619
chr3	116263949	116263998	transcription	+	116265939	116265939	-1965
chr16	4525062	4525121	transcription	-	4523053	4523053	-2038
chr16	4525142	4525194	transcription	-	4523053	4523053	-2115
chr16	4525257	4525313	transcription	-	4523053	4523053	-2232
chr1	168170138	168170197	transcription	-	168168875	168168875	-1292
chr1	168169948	168169997	transcription	-	168168875	168168875	-1097
chr1	168170038	168170095	transcription	-	168168875	168168875	-1191
chr6	83297179	83297241	transcription	+	83299477	83299477	-2267
chr6	83297314	83297371	transcription	+	83299477	83299477	-2134
chr6	83297514	83297566	transcription	+	83299477	83299477	-1937
chr6	83297404	83297453	transcription	+	83299477	83299477	-2048
chr4	84528942	84528991	transcription	+	84530230	84530230	-1263
chr4	84528642	84528704	transcription	+	84530230	84530230	-1557
chr4	84528722	84528780	transcription	+	84530230	84530230	-1479
chr4	84528842	84528894	transcription	+	84530230	84530230	-1362
chr4	21856494	21856545	transcription	+	21858472	21858472	-1952
chr4	21856598	21856647	transcription	+	21858472	21858472	-1849
chr4	21856693	21856742	transcription	+	21858472	21858472	-1754
chr4	21856788	21856838	transcription	+	21858472	21858472	-1659

chr12	112218900	112218949	transcription	-	112217231	112217231	-1693
chr12	112219040	112219102	transcription	-	112217231	112217231	-1840
chr12	112219190	112219239	transcription	-	112217231	112217231	-1983
chr18	46686813	46686868	transcription	-	46685625	46685625	-1215
chr18	46686893	46686947	transcription	-	46685625	46685625	-1295
chr18	46687009	46687058	transcription	-	46685625	46685625	-1408
chr18	46686613	46686669	transcription	-	46685625	46685625	-1016
chr18	46686713	46686762	transcription	-	46685625	46685625	-1112
chr18	46688535	46688593	transcription	-	46685625	46685625	-2939
chr6	35276004	35276053	transcription	-	35276141	35276141	112
chr6	35276104	35276153	transcription	-	35276141	35276141	12
chr6	35276204	35276261	transcription	-	35276141	35276141	-91
chr8	98379572	98379622	transcription	-	98377391	98377391	-2206
chr8	98378822	98378883	transcription	-	98377391	98377391	-1461
chr8	98378902	98378961	transcription	-	98377391	98377391	-1540
chr8	98379072	98379121	transcription	-	98377391	98377391	-1705
chr11	115889359	115889424	transcription	+	115891635	115891635	-2243
chr11	115888969	115889024	transcription	+	115891635	115891635	-2638
chr11	115889179	115889228	transcription	+	115891635	115891635	-2431
chr11	115889464	115889513	transcription	+	115891635	115891635	-2146
chr11	115889054	115889103	transcription	+	115891635	115891635	-2556
chr11	104986371	104986420	transcription	+	104987800	104987800	-1404
chr11	104986471	104986530	transcription	+	104987800	104987800	-1299
chr11	104986181	104986239	transcription	+	104987800	104987800	-1590
chr11	104986276	104986325	transcription	+	104987800	104987800	-1499
chr7	125728900	125728949	transcription	-	125728200	125728200	-724
chr7	125729010	125729065	transcription	-	125728200	125728200	-837
chr7	125729090	125729139	transcription	-	125728200	125728200	-914
chr5	130177096	130177152	transcription	-	130175963	130175963	-1161
chr5	130176886	130176946	transcription	-	130175963	130175963	-953
chr5	130176976	130177027	transcription	-	130175963	130175963	-1038
chr5	130177396	130177450	transcription	-	130175963	130175963	-1460
chr2	158489509	158489562	transcription	+	158492468	158492468	-2932
chr2	158489689	158489738	transcription	+	158492468	158492468	-2754
chr2	158489829	158489886	transcription	+	158492468	158492468	-2610
chr16	3741560	3741613	transcription	+	3744098	3744098	-2511
chr16	3741660	3741717	transcription	+	3744098	3744098	-2409
chr16	3741760	3741809	transcription	+	3744098	3744098	-2313
chr16	59268969	59269026	transcription	-	59269491	59269491	493
chr16	59269054	59269111	transcription	-	59269491	59269491	408
chr16	59269164	59269220	transcription	-	59269491	59269491	299
chr7	147795280	147795336	transcription	+	147796066	147796066	-758
chr7	147795165	147795214	transcription	+	147796066	147796066	-876
chr7	147795080	147795129	transcription	+	147796066	147796066	-961
chr9	18621696	18621745	transcription	-	18620736	18620736	-984
chr9	18621516	18621572	transcription	-	18620736	18620736	-808
chr9	18621621	18621676	transcription	-	18620736	18620736	-912
chr2	85278787	85278848	transcription	-	85279313	85279313	495
chr2	85278877	85278926	transcription	-	85279313	85279313	411
chr2	85278977	85279040	transcription	-	85279313	85279313	304
chr2	85279087	85279146	transcription	-	85279313	85279313	196
chr2	85279192	85279243	transcription	-	85279313	85279313	95
chr4	106406070	106406119	transcription	+	106406519	106406519	-424



chr4	106406180	106406229	transcription	+	106406519	106406519	-314
chr4	106406260	106406309	transcription	+	106406519	106406519	-234
chr4	106406360	106406409	transcription	+	106406519	106406519	-134
chr4	106406460	106406509	transcription	+	106406519	106406519	-34
chr15	31152274	31152325	transcription	+	31154187	31154187	-1887
chr15	31152374	31152423	transcription	+	31154187	31154187	-1788
chr15	31152469	31152527	transcription	+	31154187	31154187	-1689
chr3	157588796	157588856	transcription	-	157588027	157588027	-799
chr3	157589031	157589080	transcription	-	157588027	157588027	-1028
chr3	157589136	157589185	transcription	-	157588027	157588027	-1133
chr5	121040830	121040879	transcription	-	121038622	121038622	-2232
chr5	121041245	121041299	transcription	-	121038622	121038622	-2650
chr5	121040945	121041001	transcription	-	121038622	121038622	-2351
chr5	121041025	121041083	transcription	-	121038622	121038622	-2432
chr5	121041145	121041194	transcription	-	121038622	121038622	-2547
chr5	121041470	121041528	transcription	-	121038622	121038622	-2877
chr2	158326638	158326687	transcription	+	158328347	158328347	-1684
chr2	158326738	158326787	transcription	+	158328347	158328347	-1584
chr2	158326848	158326897	transcription	+	158328347	158328347	-1474
chr4	155481258	155481316	transcription	+	155484106	155484106	-2819
chr4	155482093	155482142	transcription	+	155484106	155484106	-1988
chr4	155481368	155481426	transcription	+	155484106	155484106	-2709
chr4	155481448	155481504	transcription	+	155484106	155484106	-2630
chr10	39746813	39746867	transcription	-	39745074	39745074	-1766
chr10	39746913	39746971	transcription	-	39745074	39745074	-1868
chr10	39747018	39747067	transcription	-	39745074	39745074	-1968
chr10	39747113	39747162	transcription	-	39745074	39745074	-2063
chr9	64800814	64800864	transcription	-	64799414	64799414	-1425
chr9	64800919	64800974	transcription	-	64799414	64799414	-1532
chr9	64801019	64801068	transcription	-	64799414	64799414	-1629
chr9	64801124	64801175	transcription	-	64799414	64799414	-1735
chr9	64800624	64800673	transcription	-	64799414	64799414	-1234
chr9	64800704	64800753	transcription	-	64799414	64799414	-1314
chr9	64800499	64800548	transcription	-	64799414	64799414	-1109
chr19	32324910	32324959	transcription	-	32322525	32322525	-2409
chr19	32325385	32325440	transcription	-	32322525	32322525	-2887
chr19	32325300	32325349	transcription	-	32322525	32322525	-2799
chr4	43514991	43515040	transcription	+	43519897	43519897	-4881
chr4	43515091	43515140	transcription	+	43519897	43519897	-4781
chr4	43515186	43515242	transcription	+	43519897	43519897	-4683
chr19	5334460	5334509	transcription	+	5335740	5335740	-1255
chr19	5334555	5334604	transcription	+	5335740	5335740	-1160
chr19	5334880	5334929	transcription	+	5335740	5335740	-835
chr19	5335295	5335344	transcription	+	5335740	5335740	-420
chr19	5334655	5334704	transcription	+	5335740	5335740	-1060
chr19	5334275	5334324	transcription	+	5335740	5335740	-1440
chr19	5334370	5334422	transcription	+	5335740	5335740	-1344
chr19	5334180	5334232	transcription	+	5335740	5335740	-1534
chr19	5334030	5334079	transcription	+	5335740	5335740	-1685
chr2	58014142	58014191	transcription	-	58012533	58012533	-1633
chr2	58014222	58014274	transcription	-	58012533	58012533	-1715
chr2	58014338	58014388	transcription	-	58012533	58012533	-1830
chr2	58015407	58015456	transcription	-	58012533	58012533	-2898

chr8	47061795	47061846	transcription	+	47060892	47060892	928
chr8	47061695	47061744	transcription	+	47060892	47060892	827
chr8	47061585	47061634	transcription	+	47060892	47060892	717
chr8	47058865	47058914	transcription	+	47060892	47060892	-2002
chr8	47058970	47059023	transcription	+	47060892	47060892	-1895
chr8	47059070	47059124	transcription	+	47060892	47060892	-1795
chr8	47059805	47059854	transcription	+	47060892	47060892	-1062
chr15	78973035	78973086	transcription	-	78971681	78971681	-1379
chr15	78974563	78974612	transcription	-	78971681	78971681	-2906
chr15	78974483	78974532	transcription	-	78971681	78971681	-2826
chr8	122628079	122628129	transcription	-	122625372	122625372	-2732
chr8	122627959	122628009	transcription	-	122625372	122625372	-2612
chr8	122627879	122627928	transcription	-	122625372	122625372	-2531
chr5	24091336	24091392	transcription	+	24092567	24092567	-1203
chr5	24091456	24091511	transcription	+	24092567	24092567	-1083
chr5	24091556	24091614	transcription	+	24092567	24092567	-982
chr4	147281413	147281465	transcription	-	147278928	147278928	-2511
chr4	147281803	147281856	transcription	-	147278928	147278928	-2901
chr4	147281533	147281590	transcription	-	147278928	147278928	-2633
chr4	147281638	147281687	transcription	-	147278928	147278928	-2734
chr14	37912929	37912978	transcription	-	37911497	37911497	-1456
chr14	37913019	37913076	transcription	-	37911497	37911497	-1550
chr14	37913129	37913186	transcription	-	37911497	37911497	-1660
chr14	37912809	37912858	transcription	-	37911497	37911497	-1336
chr14	27705769	27705826	transcription	+	27707797	27707797	-1999
chr14	27705884	27705939	transcription	+	27707797	27707797	-1885
chr14	27705669	27705718	transcription	+	27707797	27707797	-2103
chr14	27705984	27706033	transcription	+	27707797	27707797	-1788
chr14	27706084	27706133	transcription	+	27707797	27707797	-1688
chr14	27706209	27706266	transcription	+	27707797	27707797	-1559
chr5	31269222	31269271	transcription	+	31271049	31271049	-1802
chr5	31268796	31268845	transcription	+	31271049	31271049	-2228
chr5	31269327	31269376	transcription	+	31271049	31271049	-1697
chr10	43986719	43986770	transcription	+	43988163	43988163	-1418
chr10	43986804	43986863	transcription	+	43988163	43988163	-1329
chr10	43986909	43986959	transcription	+	43988163	43988163	-1229
chr10	43987004	43987053	transcription	+	43988163	43988163	-1134
chr10	43987124	43987182	transcription	+	43988163	43988163	-1010
chr10	43986624	43986682	transcription	+	43988163	43988163	-1510
chr17	34804956	34805015	transcription	+	34807479	34807479	-2493
chr17	34805046	34805095	transcription	+	34807479	34807479	-2408
chr17	34804741	34804804	transcription	+	34807479	34807479	-2706
chr17	34804856	34804905	transcription	+	34807479	34807479	-2598
chr2	26720872	26720937	transcription	-	26720499	26720499	-405
chr2	26720782	26720833	transcription	-	26720499	26720499	-308
chr2	26720662	26720711	transcription	-	26720499	26720499	-187
chr11	120807837	120807886	transcription	+	120809797	120809797	-1935
chr11	120807662	120807711	transcription	+	120809797	120809797	-2110
chr11	120807762	120807811	transcription	+	120809797	120809797	-2010
chr5	139854912	139854961	transcription	+	139856620	139856620	-1683
chr5	139854212	139854261	transcription	+	139856620	139856620	-2383
chr5	139854307	139854356	transcription	+	139856620	139856620	-2288
chr5	139854412	139854461	transcription	+	139856620	139856620	-2183

chr5	139854492	139854553	transcription	+	139856620	139856620	-2097
chr5	139854592	139854641	transcription	+	139856620	139856620	-2003
chr5	139854707	139854756	transcription	+	139856620	139856620	-1888
chr5	139854792	139854841	transcription	+	139856620	139856620	-1803
chr5	139854992	139855041	transcription	+	139856620	139856620	-1603
chr5	139854112	139854161	transcription	+	139856620	139856620	-2483
chr10	75910009	75910058	transcription	+	75911825	75911825	-1791
chr10	75910799	75910848	transcription	+	75911825	75911825	-1001
chr10	75910414	75910466	transcription	+	75911825	75911825	-1385
chr10	75910509	75910558	transcription	+	75911825	75911825	-1291
chr10	75910604	75910656	transcription	+	75911825	75911825	-1195
chr10	75910694	75910752	transcription	+	75911825	75911825	-1102
chr10	75910199	75910248	transcription	+	75911825	75911825	-1601
chr10	75910304	75910356	transcription	+	75911825	75911825	-1495
chr10	75909899	75909953	transcription	+	75911825	75911825	-1899
chr10	75908238	75908299	transcription	+	75911825	75911825	-3556
chr10	75910894	75910943	transcription	+	75911825	75911825	-906
chr12	53197472	53197521	transcription	+	53198732	53198732	-1235
chr12	53197272	53197330	transcription	+	53198732	53198732	-1431
chr12	53197387	53197443	transcription	+	53198732	53198732	-1317
chr12	53197572	53197626	transcription	+	53198732	53198732	-1133
chr6	71779897	71779946	transcription	+	71781324	71781324	-1402
chr6	71779712	71779773	transcription	+	71781324	71781324	-1581
chr6	71779802	71779859	transcription	+	71781324	71781324	-1493
chr6	71779507	71779556	transcription	+	71781324	71781324	-1792
chr6	85854516	85854568	transcription	-	85854932	85854932	390
chr6	85854716	85854765	transcription	-	85854932	85854932	191
chr6	85854821	85854870	transcription	-	85854932	85854932	86
chr2	164421356	164421405	transcription	-	164419071	164419071	-2309
chr2	164421456	164421519	transcription	-	164419071	164419071	-2416
chr2	164421251	164421305	transcription	-	164419071	164419071	-2207
chr2	164421146	164421195	transcription	-	164419071	164419071	-2099
chr2	164421031	164421081	transcription	-	164419071	164419071	-1985
chr2	25431299	25431348	transcription	-	25430391	25430391	-932
chr2	25431399	25431448	transcription	-	25430391	25430391	-1032
chr2	25431519	25431568	transcription	-	25430391	25430391	-1152
chr2	25431599	25431648	transcription	-	25430391	25430391	-1232
chr1	99025309	99025363	transcription	-	99024880	99024880	-456
chr1	99025404	99025462	transcription	-	99024880	99024880	-553
chr1	99025199	99025254	transcription	-	99024880	99024880	-346
chr13	54889536	54889585	transcription	+	54890821	54890821	-1260
chr13	54889616	54889665	transcription	+	54890821	54890821	-1180
chr13	54889716	54889765	transcription	+	54890821	54890821	-1080
chr1	93390141	93390190	transcription	+	93391253	93391253	-1087
chr1	93390241	93390290	transcription	+	93391253	93391253	-987
chr1	93390341	93390390	transcription	+	93391253	93391253	-887
chr10	80818063	80818112	transcription	+	80820314	80820314	-2226
chr10	80818203	80818252	transcription	+	80820314	80820314	-2086
chr10	80818292	80818341	transcription	+	80820314	80820314	-1997
chr10	80818382	80818431	transcription	+	80820314	80820314	-1907
chr10	80818582	80818631	transcription	+	80820314	80820314	-1707
chr10	80818687	80818739	transcription	+	80820314	80820314	-1601
chr7	71534996	71535057	transcription	+	71537656	71537656	-2629

chr7	71535121	71535173	transcription	+	71537656	71537656	-2509
chr7	71535201	71535250	transcription	+	71537656	71537656	-2430
chr16	89406472	89406530	transcription	-	89404019	89404019	-2482
chr16	89406277	89406330	transcription	-	89404019	89404019	-2284
chr16	89403487	89403537	transcription	-	89404019	89404019	507
chr16	89406577	89406630	transcription	-	89404019	89404019	-2584
chr16	89406929	89406980	transcription	-	89404019	89404019	-2935
chr16	89403587	89403644	transcription	-	89404019	89404019	403
chr8	126386557	126386606	transcription	-	126384109	126384109	-2472
chr8	126386200	126386259	transcription	-	126384109	126384109	-2120
chr8	126386295	126386346	transcription	-	126384109	126384109	-2211
chr1	44606608	44606664	transcription	+	44608515	44608515	-1879
chr1	44606413	44606467	transcription	+	44608515	44608515	-2075
chr1	44606528	44606577	transcription	+	44608515	44608515	-1962
chr1	44606715	44606764	transcription	+	44608515	44608515	-1775
chr14	37748164	37748213	transcription	-	37748754	37748754	565
chr14	37748249	37748306	transcription	-	37748754	37748754	476
chr14	37748339	37748396	transcription	-	37748754	37748754	386
chr14	37748464	37748514	transcription	-	37748754	37748754	265
chr11	102144166	102144222	transcription	+	102146274	102146274	-2080
chr11	102143861	102143910	transcription	+	102146274	102146274	-2388
chr11	102144086	102144135	transcription	+	102146274	102146274	-2163
chr11	102143666	102143715	transcription	+	102146274	102146274	-2583
chr15	97538335	97538384	transcription	-	97536253	97536253	-2106
chr15	97538435	97538487	transcription	-	97536253	97536253	-2208
chr15	97538520	97538579	transcription	-	97536253	97536253	-2296
chr15	97538918	97538967	transcription	-	97536253	97536253	-2689
chr15	97538818	97538871	transcription	-	97536253	97536253	-2591
chr7	31937081	31937130	transcription	-	31936069	31936069	-1036
chr7	31937196	31937245	transcription	-	31936069	31936069	-1151
chr7	31937281	31937330	transcription	-	31936069	31936069	-1236
chr7	31937391	31937442	transcription	-	31936069	31936069	-1347
chr10	87822301	87822350	transcription	-	87819820	87819820	-2505
chr10	87822381	87822433	transcription	-	87819820	87819820	-2587
chr10	87822526	87822575	transcription	-	87819820	87819820	-2730
chr12	29308133	29308182	transcription	-	29308155	29308155	-2
chr12	29308228	29308277	transcription	-	29308155	29308155	-97
chr12	29308318	29308367	transcription	-	29308155	29308155	-187
chr12	29307933	29307985	transcription	-	29308155	29308155	196
chr12	29308028	29308077	transcription	-	29308155	29308155	102
chr19	47127820	47127872	transcription	-	47125335	47125335	-2511
chr19	47127900	47127949	transcription	-	47125335	47125335	-2589
chr19	47128005	47128064	transcription	-	47125335	47125335	-2699
chr19	47128095	47128145	transcription	-	47125335	47125335	-2785
chr19	47127425	47127474	transcription	-	47125335	47125335	-2114
chr19	47127720	47127778	transcription	-	47125335	47125335	-2414
chr18	44537296	44537354	transcription	+	44540153	44540153	-2828
chr18	44537714	44537764	transcription	+	44540153	44540153	-2414
chr18	44537396	44537454	transcription	+	44540153	44540153	-2728
chr18	44537606	44537655	transcription	+	44540153	44540153	-2522
chr8	23298900	23298949	transcription	+	23303331	23303331	-4406
chr8	23298995	23299044	transcription	+	23303331	23303331	-4311
chr8	23298795	23298844	transcription	+	23303331	23303331	-4511



chr3	116266613	116266662	transcription	+	116265995	116265995	642
chr3	116266528	116266588	transcription	+	116265995	116265995	563
chr3	116263949	116263998	transcription	+	116265995	116265995	-2021
chr14	31946601	31946650	transcription	+	31948038	31948038	-1412
chr14	31946701	31946750	transcription	+	31948038	31948038	-1312
chr14	31946781	31946830	transcription	+	31948038	31948038	-1232
chr14	31946496	31946545	transcription	+	31948038	31948038	-1517
chr14	31946186	31946235	transcription	+	31948038	31948038	-1827
chr14	31946281	31946330	transcription	+	31948038	31948038	-1732
chr14	31946396	31946445	transcription	+	31948038	31948038	-1617
chr12	70300784	70300844	transcription	-	70299416	70299416	-1398
chr12	70300989	70301046	transcription	-	70299416	70299416	-1601
chr12	70300694	70300743	transcription	-	70299416	70299416	-1302
chr4	107998394	107998446	transcription	+	108000756	108000756	-2336
chr4	107998794	107998843	transcription	+	108000756	108000756	-1937
chr4	107998284	107998333	transcription	+	108000756	108000756	-2447
chr2	24006892	24006955	transcription	+	24008691	24008691	-1767
chr2	24006502	24006563	transcription	+	24008691	24008691	-2158
chr2	24006592	24006650	transcription	+	24008691	24008691	-2070
chr3	30542261	30542317	transcription	+	30543428	30543428	-1139
chr3	30542061	30542110	transcription	+	30543428	30543428	-1342
chr3	30542166	30542215	transcription	+	30543428	30543428	-1237
chr9	64023435	64023484	transcription	-	64020738	64020738	-2721
chr9	64025395	64025452	transcription	-	64020738	64020738	-4685
chr9	64025515	64025564	transcription	-	64020738	64020738	-4801
chr4	133658043	133658092	transcription	+	133658513	133658513	-445
chr4	133658128	133658186	transcription	+	133658513	133658513	-356
chr4	133657828	133657880	transcription	+	133658513	133658513	-659
chr4	133657928	133657977	transcription	+	133658513	133658513	-560
chr14	76354821	76354870	transcription	+	76354809	76354809	36
chr14	76355221	76355272	transcription	+	76354809	76354809	437
chr14	76354901	76354958	transcription	+	76354809	76354809	120
chr14	76355001	76355054	transcription	+	76354809	76354809	218
chrX	7710338	7710392	transcription	-	7709564	7709564	-801
chrX	7710443	7710499	transcription	-	7709564	7709564	-907
chrX	7710528	7710586	transcription	-	7709564	7709564	-993
chrX	7710128	7710186	transcription	-	7709564	7709564	-593
chrX	7710243	7710292	transcription	-	7709564	7709564	-703
chrX	7710033	7710082	transcription	-	7709564	7709564	-493
chr8	26893744	26893793	transcription	+	26896062	26896062	-2293
chr8	26893849	26893908	transcription	+	26896062	26896062	-2183
chr8	26893644	26893696	transcription	+	26896062	26896062	-2392
chr8	26893534	26893583	transcription	+	26896062	26896062	-2503
chr8	26893439	26893495	transcription	+	26896062	26896062	-2595
chr2	174292324	174292376	transcription	-	174289602	174289602	-2748
chr2	174291532	174291581	transcription	-	174289602	174289602	-1954
chr2	174291617	174291677	transcription	-	174289602	174289602	-2045
chr2	174291737	174291794	transcription	-	174289602	174289602	-2163
chr2	174291814	174291863	transcription	-	174289602	174289602	-2236
chr2	174292129	174292178	transcription	-	174289602	174289602	-2551
chr6	147423157	147423215	transcription	+	147424392	147424392	-1206
chr6	147423252	147423301	transcription	+	147424392	147424392	-1115
chr6	147423357	147423414	transcription	+	147424392	147424392	-1006

chr4	122692606	122692661	transcription	+	122693839	122693839	-1205
chr4	122692226	122692275	transcription	+	122693839	122693839	-1588
chr4	122692416	122692465	transcription	+	122693839	122693839	-1398
chr4	122692521	122692576	transcription	+	122693839	122693839	-1290
chr11	99420481	99420530	transcription	-	99418167	99418167	-2338
chr11	99420281	99420338	transcription	-	99418167	99418167	-2142
chr11	99420396	99420445	transcription	-	99418167	99418167	-2253
chr11	99420196	99420246	transcription	-	99418167	99418167	-2054
chr16	4627011	4627060	transcription	-	4624946	4624946	-2089
chr16	4627111	4627160	transcription	-	4624946	4624946	-2189
chr16	4627226	4627275	transcription	-	4624946	4624946	-2304
chr10	119661958	119662014	transcription	+	119664115	119664115	-2129
chr10	119661878	119661935	transcription	+	119664115	119664115	-2208
chr10	119661773	119661822	transcription	+	119664115	119664115	-2317
chr15	102287705	102287755	transcription	+	102289662	102289662	-1932
chr15	102287805	102287854	transcription	+	102289662	102289662	-1832
chr15	102287525	102287583	transcription	+	102289662	102289662	-2108
chr15	102287610	102287659	transcription	+	102289662	102289662	-2027
chr15	102287925	102287976	transcription	+	102289662	102289662	-1711
chr15	102288005	102288054	transcription	+	102289662	102289662	-1632
chr7	148195907	148195956	transcription	-	148196643	148196643	711
chr7	148196007	148196056	transcription	-	148196643	148196643	611
chr7	148196152	148196206	transcription	-	148196643	148196643	464
chr7	52814911	52814963	transcription	+	52817566	52817566	-2629
chr7	52815026	52815083	transcription	+	52817566	52817566	-2511
chr7	52815388	52815439	transcription	+	52817566	52817566	-2152
chr11	115463484	115463533	transcription	+	115465464	115465464	-1955
chr11	115463604	115463653	transcription	+	115465464	115465464	-1835
chr11	115463699	115463748	transcription	+	115465464	115465464	-1740
chr11	100601024	100601073	transcription	-	100599444	100599444	-1604
chr11	100601229	100601279	transcription	-	100599444	100599444	-1810
chr11	100601404	100601455	transcription	-	100599444	100599444	-1985
chr11	100601514	100601563	transcription	-	100599444	100599444	-2094
chr11	100601614	100601663	transcription	-	100599444	100599444	-2194
chr11	100601719	100601768	transcription	-	100599444	100599444	-2299
chr15	57726776	57726828	transcription	-	57723973	57723973	-2829
chr15	57726267	57726316	transcription	-	57723973	57723973	-2318
chr15	57726077	57726126	transcription	-	57723973	57723973	-2128
chr15	57726362	57726411	transcription	-	57723973	57723973	-2413
chr15	57726472	57726525	transcription	-	57723973	57723973	-2525
chr15	57726676	57726725	transcription	-	57723973	57723973	-2727
chr2	12343797	12343853	transcription	-	12341087	12341087	-2738
chr2	12343147	12343199	transcription	-	12341087	12341087	-2086
chr2	12343722	12343777	transcription	-	12341087	12341087	-2662
chr2	12343347	12343396	transcription	-	12341087	12341087	-2284
chr12	85289691	85289740	transcription	+	85291619	85291619	-1903
chr12	85289801	85289850	transcription	+	85291619	85291619	-1793
chr12	85289586	85289635	transcription	+	85291619	85291619	-2008
chr13	99031435	99031489	transcription	+	99033196	99033196	-1734
chr13	99031315	99031364	transcription	+	99033196	99033196	-1856
chr13	99031517	99031566	transcription	+	99033196	99033196	-1654
chr7	18557283	18557335	transcription	+	18557515	18557515	-206
chr7	18557183	18557241	transcription	+	18557515	18557515	-303

chr7	18557503	18557552	transcription	+	18557515	18557515	12
chr7	18557388	18557445	transcription	+	18557515	18557515	-98
chr7	18557588	18557637	transcription	+	18557515	18557515	97
chr8	74682528	74682585	transcription	+	74685098	74685098	-2541
chr8	74682613	74682663	transcription	+	74685098	74685098	-2460
chr8	74682838	74682887	transcription	+	74685098	74685098	-2235
chr8	74682733	74682782	transcription	+	74685098	74685098	-2340
chr3	37131850	37131902	transcription	-	37131540	37131540	-336
chr3	37132150	37132207	transcription	-	37131540	37131540	-638
chr3	37131940	37131989	transcription	-	37131540	37131540	-424
chr3	37132025	37132083	transcription	-	37131540	37131540	-514
chr3	37132250	37132299	transcription	-	37131540	37131540	-734
chr3	37132345	37132401	transcription	-	37131540	37131540	-833
chr3	37132425	37132474	transcription	-	37131540	37131540	-909
chr3	37132525	37132574	transcription	-	37131540	37131540	-1009
chr13	101087424	101087473	transcription	-	101087643	101087643	194
chr13	101087009	101087058	transcription	-	101087643	101087643	609
chr13	101087124	101087173	transcription	-	101087643	101087643	494
chr8	108376435	108376484	transcription	+	108379042	108379042	-2582
chr8	108376560	108376612	transcription	+	108379042	108379042	-2456
chr8	108376645	108376694	transcription	+	108379042	108379042	-2372
chr5	4759981	4760035	transcription	-	4758216	4758216	-1792
chr5	4760066	4760120	transcription	-	4758216	4758216	-1877
chr5	4760184	4760233	transcription	-	4758216	4758216	-1992
chr5	4760274	4760323	transcription	-	4758216	4758216	-2082
chr5	4759586	4759635	transcription	-	4758216	4758216	-1394
chr3	134491010	134491059	transcription	+	134491970	134491970	-935
chr3	134490730	134490786	transcription	+	134491970	134491970	-1212
chr3	134490910	134490963	transcription	+	134491970	134491970	-1033
chr6	87543609	87543670	transcription	-	87540695	87540695	-2944
chr6	87543319	87543375	transcription	-	87540695	87540695	-2652
chr6	87543409	87543458	transcription	-	87540695	87540695	-2738
chr6	87543524	87543573	transcription	-	87540695	87540695	-2853
chr6	87543209	87543258	transcription	-	87540695	87540695	-2538
chr1	66991914	66991965	transcription	-	66991630	66991630	-309
chr1	66992014	66992063	transcription	-	66991630	66991630	-408
chr1	66992109	66992160	transcription	-	66991630	66991630	-504
chr17	46695261	46695310	transcription	-	46693111	46693111	-2174
chr17	46695341	46695390	transcription	-	46693111	46693111	-2254
chr17	46695143	46695197	transcription	-	46693111	46693111	-2059
chr12	32893678	32893735	transcription	-	32893335	32893335	-371
chr12	32893773	32893825	transcription	-	32893335	32893335	-464
chr12	32893488	32893537	transcription	-	32893335	32893335	-177
chr12	32893563	32893628	transcription	-	32893335	32893335	-260
chr11	118293130	118293179	transcription	+	118295166	118295166	-2011
chr11	118293025	118293074	transcription	+	118295166	118295166	-2116
chr11	118295670	118295719	transcription	+	118295166	118295166	528
chr11	118294780	118294829	transcription	+	118295166	118295166	-361
chr11	118294880	118294929	transcription	+	118295166	118295166	-261
chr11	118295560	118295611	transcription	+	118295166	118295166	419
chr2	118684796	118684845	transcription	+	118687735	118687735	-2914
chr2	118684876	118684932	transcription	+	118687735	118687735	-2831
chr2	118684991	118685042	transcription	+	118687735	118687735	-2718

chr16	43509567	43509626	transcription	+	43510420	43510420	-823
chr16	43509063	43509120	transcription	+	43510420	43510420	-1328
chr16	43509168	43509224	transcription	+	43510420	43510420	-1224
chr16	43509282	43509340	transcription	+	43510420	43510420	-1109
chr16	43509382	43509434	transcription	+	43510420	43510420	-1012
chr16	43509482	43509537	transcription	+	43510420	43510420	-910
chr16	43509673	43509724	transcription	+	43510420	43510420	-721
chr9	62830160	62830209	transcription	-	62828686	62828686	-1498
chr9	62829915	62829964	transcription	-	62828686	62828686	-1253
chr9	62830015	62830067	transcription	-	62828686	62828686	-1355
chr14	30823632	30823681	transcription	-	30822082	30822082	-1574
chr14	30824737	30824786	transcription	-	30822082	30822082	-2679
chr14	30824432	30824481	transcription	-	30822082	30822082	-2374
chr14	30824537	30824586	transcription	-	30822082	30822082	-2479
chr14	30824642	30824692	transcription	-	30822082	30822082	-2585
chr14	56342889	56342948	transcription	-	56341013	56341013	-1905
chr14	56343377	56343426	transcription	-	56341013	56341013	-2388
chr14	56343274	56343323	transcription	-	56341013	56341013	-2285
chr14	56342974	56343033	transcription	-	56341013	56341013	-1990
chr14	56343074	56343124	transcription	-	56341013	56341013	-2086
chr14	56343194	56343245	transcription	-	56341013	56341013	-2206
chr14	56342670	56342722	transcription	-	56341013	56341013	-1683
chr14	56342797	56342849	transcription	-	56341013	56341013	-1810
chr14	56343497	56343546	transcription	-	56341013	56341013	-2508
chr14	56343697	56343758	transcription	-	56341013	56341013	-2714
chr14	56342570	56342620	transcription	-	56341013	56341013	-1582
chr14	56343597	56343657	transcription	-	56341013	56341013	-2614
chr16	3720287	3720338	transcription	-	3718097	3718097	-2215
chr16	3719802	3719851	transcription	-	3718097	3718097	-1729
chr16	3720082	3720131	transcription	-	3718097	3718097	-2009
chr16	3720202	3720256	transcription	-	3718097	3718097	-2132
chr16	3719887	3719939	transcription	-	3718097	3718097	-1816
chr16	3720002	3720064	transcription	-	3718097	3718097	-1936
chr9	110959351	110959400	transcription	-	110959774	110959774	398
chr9	110959536	110959585	transcription	-	110959774	110959774	213
chr9	110959446	110959495	transcription	-	110959774	110959774	303
chr9	110959651	110959700	transcription	-	110959774	110959774	98
chr14	57678246	57678305	transcription	-	57676782	57676782	-1493
chr14	57678366	57678419	transcription	-	57676782	57676782	-1610
chr14	57678166	57678232	transcription	-	57676782	57676782	-1417
chr11	100069707	100069756	transcription	-	100068824	100068824	-907
chr11	100069787	100069836	transcription	-	100068824	100068824	-987
chr11	100069907	100069956	transcription	-	100068824	100068824	-1107
chr11	100070992	100071041	transcription	-	100068824	100068824	-2192
chr11	100071102	100071151	transcription	-	100068824	100068824	-2302
chr5	92474626	92474676	transcription	-	92472044	92472044	-2607
chr5	92474766	92474823	transcription	-	92472044	92472044	-2750
chr5	92473654	92473710	transcription	-	92472044	92472044	-1638
chr5	92474526	92474575	transcription	-	92472044	92472044	-2506
chr15	101526346	101526395	transcription	-	101521940	101521940	-4430
chr15	101526426	101526475	transcription	-	101521940	101521940	-4510
chr15	101526231	101526280	transcription	-	101521940	101521940	-4315
chr10	127518618	127518667	transcription	+	127520362	127520362	-1719



chr10	127518823	127518882	transcription	+	127520362	127520362	-1509
chr10	127518718	127518767	transcription	+	127520362	127520362	-1619
chr13	55470807	55470856	transcription	+	55471131	55471131	-299
chr13	55470697	55470747	transcription	+	55471131	55471131	-409
chr13	55470917	55470966	transcription	+	55471131	55471131	-189
chr13	55466522	55466571	transcription	+	55471131	55471131	-4584
chr13	55471207	55471256	transcription	+	55471131	55471131	100
chr13	55471102	55471151	transcription	+	55471131	55471131	-4
chr13	55471312	55471361	transcription	+	55471131	55471131	205
chr8	125624945	125624996	transcription	+	125626315	125626315	-1344
chr8	125624835	125624884	transcription	+	125626315	125626315	-1455
chr8	125624730	125624779	transcription	+	125626315	125626315	-1560
chr8	125624540	125624589	transcription	+	125626315	125626315	-1750
chr8	125624640	125624689	transcription	+	125626315	125626315	-1650
chr17	24486444	24486496	transcription	+	24488990	24488990	-2520
chr17	24486534	24486595	transcription	+	24488990	24488990	-2425
chr17	24486634	24486684	transcription	+	24488990	24488990	-2331
chr17	24486334	24486383	transcription	+	24488990	24488990	-2631
chr17	36109119	36109171	transcription	-	36106695	36106695	-2450
chr17	36109214	36109279	transcription	-	36106695	36106695	-2551
chr17	36109309	36109358	transcription	-	36106695	36106695	-2638
chr5	108491924	108491973	transcription	+	108494760	108494760	-2811
chr5	108492019	108492068	transcription	+	108494760	108494760	-2716
chr5	108492104	108492153	transcription	+	108494760	108494760	-2631
chr17	30760945	30761002	transcription	+	30763880	30763880	-2906
chr17	30763292	30763341	transcription	+	30763880	30763880	-563
chr17	30761020	30761069	transcription	+	30763880	30763880	-2835
chr17	30763372	30763428	transcription	+	30763880	30763880	-480
chr10	128064802	128064851	transcription	-	128063296	128063296	-1530
chr10	128064897	128064955	transcription	-	128063296	128063296	-1630
chr10	128065027	128065076	transcription	-	128063296	128063296	-1755
chr10	128065222	128065271	transcription	-	128063296	128063296	-1950
chr10	128065312	128065367	transcription	-	128063296	128063296	-2043
chr14	76509206	76509259	transcription	+	76510697	76510697	-1464
chr14	76509396	76509451	transcription	+	76510697	76510697	-1273
chr14	76509533	76509586	transcription	+	76510697	76510697	-1137
chr14	76509613	76509669	transcription	+	76510697	76510697	-1056
chr1	175913609	175913658	transcription	-	175912975	175912975	-658
chr1	175913689	175913746	transcription	-	175912975	175912975	-742
chr1	175913924	175913973	transcription	-	175912975	175912975	-973
chr1	175913804	175913857	transcription	-	175912975	175912975	-855
chr5	137917795	137917850	transcription	-	137918292	137918292	469
chr5	137918295	137918344	transcription	-	137918292	137918292	-27
chr5	137917890	137917948	transcription	-	137918292	137918292	373
chr5	137918000	137918049	transcription	-	137918292	137918292	267
chr5	137918190	137918240	transcription	-	137918292	137918292	77
chr9	123543791	123543840	transcription	-	123541594	123541594	-2221
chr9	123543929	123543988	transcription	-	123541594	123541594	-2364
chr9	123544009	123544067	transcription	-	123541594	123541594	-2444
chr17	74299596	74299645	transcription	-	74299522	74299522	-98
chr17	74299396	74299446	transcription	-	74299522	74299522	101
chr17	74299506	74299557	transcription	-	74299522	74299522	-9
chr17	74299691	74299740	transcription	-	74299522	74299522	-193

chr19	9163573	9163622	transcription	-	9162446	9162446	-1151
chr19	9163458	9163509	transcription	-	9162446	9162446	-1037
chr19	9161778	9161827	transcription	-	9162446	9162446	643
chr19	9163378	9163427	transcription	-	9162446	9162446	-956
chr5	67064503	67064564	transcription	+	67067359	67067359	-2825
chr5	67064623	67064678	transcription	+	67067359	67067359	-2708
chr5	67064703	67064753	transcription	+	67067359	67067359	-2631
chr5	67064823	67064872	transcription	+	67067359	67067359	-2511
chr7	109212069	109212129	transcription	+	109214226	109214226	-2127
chr7	109212174	109212228	transcription	+	109214226	109214226	-2025
chr7	109211979	109212028	transcription	+	109214226	109214226	-2222
chr7	109212284	109212334	transcription	+	109214226	109214226	-1917
chr11	116716177	116716226	transcription	-	116714408	116714408	-1793
chr11	116716387	116716440	transcription	-	116714408	116714408	-2005
chr11	116716277	116716333	transcription	-	116714408	116714408	-1897
chr11	116716582	116716641	transcription	-	116714408	116714408	-2203
chr11	116716492	116716541	transcription	-	116714408	116714408	-2108
chr3	90409608	90409657	transcription	+	90412443	90412443	-2810
chr3	90409683	90409732	transcription	+	90412443	90412443	-2735
chr3	90408213	90408262	transcription	+	90412443	90412443	-4205
chr3	90408323	90408372	transcription	+	90412443	90412443	-4095
chr3	90409783	90409832	transcription	+	90412443	90412443	-2635
chr3	90408103	90408153	transcription	+	90412443	90412443	-4315
chr3	90407923	90407974	transcription	+	90412443	90412443	-4494
chr3	90408018	90408067	transcription	+	90412443	90412443	-4400
chr3	90409903	90409952	transcription	+	90412443	90412443	-2515
chr3	90407743	90407792	transcription	+	90412443	90412443	-4675
chr3	90403903	90403952	transcription	+	90407691	90407691	-3763
chr3	90408213	90408262	transcription	+	90407691	90407691	546
chr3	90408323	90408372	transcription	+	90407691	90407691	656
chr3	90408103	90408153	transcription	+	90407691	90407691	437
chr3	90404003	90404052	transcription	+	90407691	90407691	-3663
chr3	90407923	90407974	transcription	+	90407691	90407691	257
chr3	90408018	90408067	transcription	+	90407691	90407691	351
chr3	90404903	90404952	transcription	+	90407691	90407691	-2763
chr3	90405003	90405052	transcription	+	90407691	90407691	-2663
chr3	90405108	90405157	transcription	+	90407691	90407691	-2558
chr3	90404603	90404652	transcription	+	90407691	90407691	-3063
chr3	90404703	90404752	transcription	+	90407691	90407691	-2963
chr3	90404813	90404862	transcription	+	90407691	90407691	-2853
chr3	90404423	90404472	transcription	+	90407691	90407691	-3243
chr3	90404523	90404572	transcription	+	90407691	90407691	-3143
chr3	90404323	90404372	transcription	+	90407691	90407691	-3343
chr3	90407743	90407792	transcription	+	90407691	90407691	76
chr3	90403903	90403952	transcription	+	90404136	90404136	-208
chr3	90404003	90404052	transcription	+	90404136	90404136	-108
chr3	90404903	90404952	transcription	+	90404136	90404136	791
chr3	90405003	90405052	transcription	+	90404136	90404136	891
chr3	90405108	90405157	transcription	+	90404136	90404136	996
chr3	90404603	90404652	transcription	+	90404136	90404136	491
chr3	90404703	90404752	transcription	+	90404136	90404136	591
chr3	90404813	90404862	transcription	+	90404136	90404136	701
chr3	90404423	90404472	transcription	+	90404136	90404136	311

chr3	90404523	90404572	transcription	+	90404136	90404136	411
chr3	90404323	90404372	transcription	+	90404136	90404136	211
chr8	93592020	93592069	transcription	+	93593992	93593992	-1947
chr8	93592110	93592159	transcription	+	93593992	93593992	-1857
chr8	93592210	93592273	transcription	+	93593992	93593992	-1750
chr8	93592310	93592360	transcription	+	93593992	93593992	-1657
chr2	163517956	163518005	transcription	+	163519772	163519772	-1791
chr2	163517656	163517705	transcription	+	163519772	163519772	-2091
chr2	163517841	163517897	transcription	+	163519772	163519772	-1903
chr1	65231023	65231074	transcription	+	65233258	65233258	-2209
chr1	65231113	65231169	transcription	+	65233258	65233258	-2117
chr1	65231218	65231274	transcription	+	65233258	65233258	-2012
chr10	60759498	60759548	transcription	+	60760583	60760583	-1060
chr10	60759378	60759427	transcription	+	60760583	60760583	-1180
chr10	60759578	60759627	transcription	+	60760583	60760583	-980
chr10	60759693	60759742	transcription	+	60760583	60760583	-865
chr10	60759773	60759822	transcription	+	60760583	60760583	-785
chr15	102300677	102300726	transcription	+	102301062	102301062	-360
chr15	102300581	102300637	transcription	+	102301062	102301062	-453
chr15	102300396	102300445	transcription	+	102301062	102301062	-641
chr15	102300501	102300564	transcription	+	102301062	102301062	-529
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr1	154655534	154655588	transcription	+	154655019	154655019	542
chr1	154655459	154655508	transcription	+	154655019	154655019	464
chr1	154655149	154655198	transcription	+	154655019	154655019	154
chr1	154655259	154655308	transcription	+	154655019	154655019	264
chr1	154655354	154655403	transcription	+	154655019	154655019	359
chr13	101087424	101087473	transcription	-	101086571	101086571	-877
chr13	101087009	101087058	transcription	-	101086571	101086571	-462
chr13	101087124	101087173	transcription	-	101086571	101086571	-577
chr10	17440899	17440950	transcription	+	17443051	17443051	-2126
chr10	17441099	17441156	transcription	+	17443051	17443051	-1923
chr10	17440804	17440853	transcription	+	17443051	17443051	-2222
chr10	17441014	17441064	transcription	+	17443051	17443051	-2012
chr10	17440714	17440763	transcription	+	17443051	17443051	-2312
chr10	17440594	17440643	transcription	+	17443051	17443051	-2432
chr17	25500787	25500836	transcription	+	25503277	25503277	-2465
chr17	25501167	25501225	transcription	+	25503277	25503277	-2081
chr17	25500877	25500926	transcription	+	25503277	25503277	-2375
chr17	25500972	25501028	transcription	+	25503277	25503277	-2277
chr17	25501067	25501123	transcription	+	25503277	25503277	-2182
chr1	122403721	122403770	transcription	-	122401661	122401661	-2084
chr1	122403821	122403870	transcription	-	122401661	122401661	-2184
chr1	122403896	122403952	transcription	-	122401661	122401661	-2263
chr15	74595865	74595914	transcription	-	74593997	74593997	-1892
chr15	74595980	74596029	transcription	-	74593997	74593997	-2007
chr15	74596130	74596182	transcription	-	74593997	74593997	-2159
chr15	74596230	74596279	transcription	-	74593997	74593997	-2257
chr15	74596310	74596359	transcription	-	74593997	74593997	-2337
chr15	74595660	74595709	transcription	-	74593997	74593997	-1687
chr15	74595775	74595824	transcription	-	74593997	74593997	-1802

chr18	52690651	52690700	transcription	-	52689362	52689362	-1313
chr18	52690756	52690812	transcription	-	52689362	52689362	-1422
chr18	52690856	52690915	transcription	-	52689362	52689362	-1523
chr15	101651185	101651234	transcription	-	101648600	101648600	-2609
chr15	101650785	101650842	transcription	-	101648600	101648600	-2213
chr15	101650660	101650714	transcription	-	101648600	101648600	-2087
chr15	101650870	101650919	transcription	-	101648600	101648600	-2294
chr15	101650960	101651009	transcription	-	101648600	101648600	-2384
chr15	101651060	101651112	transcription	-	101648600	101648600	-2486
chr19	5445684	5445733	transcription	+	5447697	5447697	-1988
chr19	5445784	5445833	transcription	+	5447697	5447697	-1888
chr19	5445869	5445918	transcription	+	5447697	5447697	-1803
chr2	93662810	93662859	transcription	-	93662725	93662725	-109
chr2	93662885	93662934	transcription	-	93662725	93662725	-184
chr2	93664032	93664088	transcription	-	93662725	93662725	-1335
chr2	93664182	93664231	transcription	-	93662725	93662725	-1481
chr2	93664522	93664572	transcription	-	93662725	93662725	-1822
chr7	53176398	53176447	transcription	-	53176796	53176796	373
chr7	53176704	53176753	transcription	-	53176796	53176796	67
chr7	53176794	53176851	transcription	-	53176796	53176796	-26
chr7	53176483	53176532	transcription	-	53176796	53176796	288
chr7	53176984	53177033	transcription	-	53176796	53176796	-212
chr7	53176583	53176637	transcription	-	53176796	53176796	186
chr7	53176884	53176933	transcription	-	53176796	53176796	-112
chr11	77539695	77539755	transcription	-	77538795	77538795	-930
chr11	77539780	77539830	transcription	-	77538795	77538795	-1010
chr11	77540030	77540079	transcription	-	77538795	77538795	-1259
chr13	54470194	54470243	transcription	+	54472712	54472712	-2493
chr13	54470099	54470149	transcription	+	54472712	54472712	-2588
chr13	54470294	54470346	transcription	+	54472712	54472712	-2392
chr13	54470399	54470453	transcription	+	54472712	54472712	-2286
chr1	74201191	74201240	transcription	+	74200567	74200567	648
chr1	74201101	74201151	transcription	+	74200567	74200567	559
chr1	74201006	74201055	transcription	+	74200567	74200567	463
chr1	74200806	74200864	transcription	+	74200567	74200567	268
chr1	74200596	74200645	transcription	+	74200567	74200567	53
chr1	74200696	74200745	transcription	+	74200567	74200567	153
chr1	74200886	74200935	transcription	+	74200567	74200567	343
chr9	107197864	107197913	transcription	+	107199019	107199019	-1130
chr9	107197974	107198025	transcription	+	107199019	107199019	-1019
chr9	107197759	107197813	transcription	+	107199019	107199019	-1233
chr7	30981480	30981529	transcription	-	30980067	30980067	-1437
chr7	30981960	30982009	transcription	-	30980067	30980067	-1917
chr7	30982090	30982143	transcription	-	30980067	30980067	-2049
chr7	30981695	30981748	transcription	-	30980067	30980067	-1654
chr6	140570994	140571050	transcription	+	140572818	140572818	-1796
chr6	140571089	140571138	transcription	+	140572818	140572818	-1704
chr6	140571309	140571358	transcription	+	140572818	140572818	-1484
chr6	140571399	140571448	transcription	+	140572818	140572818	-1394
chr3	137880990	137881039	transcription	+	137880736	137880736	278
chr3	137881095	137881153	transcription	+	137880736	137880736	388
chr3	137878799	137878848	transcription	+	137880736	137880736	-1912
chr3	137878899	137878951	transcription	+	137880736	137880736	-1811



chr3	137878999	137879049	transcription	+	137880736	137880736	-1712
chr3	137879080	137879139	transcription	+	137880736	137880736	-1626
chr3	137879180	137879229	transcription	+	137880736	137880736	-1531
chr3	137879300	137879349	transcription	+	137880736	137880736	-1411
chr3	137879395	137879444	transcription	+	137880736	137880736	-1316
chr3	137879480	137879538	transcription	+	137880736	137880736	-1227
chr3	137877977	137878030	transcription	+	137880736	137880736	-2732
chr15	102350119	102350173	transcription	-	102347243	102347243	-2903
chr15	102349934	102349986	transcription	-	102347243	102347243	-2717
chr15	102349824	102349873	transcription	-	102347243	102347243	-2605
chr15	102349739	102349788	transcription	-	102347243	102347243	-2520
chr17	21584501	21584558	transcription	+	21587315	21587315	-2785
chr17	21584601	21584662	transcription	+	21587315	21587315	-2683
chr17	21584701	21584750	transcription	+	21587315	21587315	-2589
chr17	21584781	21584830	transcription	+	21587315	21587315	-2509
chr8	44394844	44394901	transcription	-	44392363	44392363	-2509
chr8	44394924	44394973	transcription	-	44392363	44392363	-2585
chr8	44392982	44393036	transcription	-	44392363	44392363	-646
chr8	44395044	44395093	transcription	-	44392363	44392363	-2705
chr7	147276842	147276891	transcription	+	147279294	147279294	-2427
chr7	147277002	147277052	transcription	+	147279294	147279294	-2267
chr7	147277087	147277138	transcription	+	147279294	147279294	-2181
chr1	163324573	163324625	transcription	+	163325568	163325568	-969
chr1	163324377	163324444	transcription	+	163325568	163325568	-1157
chr1	163324482	163324532	transcription	+	163325568	163325568	-1061
chr15	79920114	79920175	transcription	+	79921763	79921763	-1618
chr15	79920219	79920268	transcription	+	79921763	79921763	-1519
chr15	79920514	79920563	transcription	+	79921763	79921763	-1224
chr15	79920624	79920678	transcription	+	79921763	79921763	-1112
chr2	164156865	164156930	transcription	+	164158500	164158500	-1602
chr2	164156670	164156719	transcription	+	164158500	164158500	-1805
chr2	164156790	164156839	transcription	+	164158500	164158500	-1685
chr2	13195315	13195366	transcription	-	13192905	13192905	-2435
chr2	13194817	13194866	transcription	-	13192905	13192905	-1936
chr2	13194917	13194974	transcription	-	13192905	13192905	-2040
chr2	13195017	13195066	transcription	-	13192905	13192905	-2136
chr7	5078812	5078868	transcription	-	5077552	5077552	-1288
chr7	5077715	5077766	transcription	-	5077552	5077552	-188
chr7	5078932	5078981	transcription	-	5077552	5077552	-1404
chr7	5079012	5079061	transcription	-	5077552	5077552	-1484
chr16	5135139	5135188	transcription	-	5132574	5132574	-2589
chr16	5134859	5134908	transcription	-	5132574	5132574	-2309
chr16	5134959	5135008	transcription	-	5132574	5132574	-2409
chr16	5133614	5133663	transcription	-	5132574	5132574	-1064
chr19	5966685	5966734	transcription	-	5964170	5964170	-2539
chr19	5966805	5966854	transcription	-	5964170	5964170	-2659
chr19	5966900	5966949	transcription	-	5964170	5964170	-2754
chr19	5966590	5966639	transcription	-	5964170	5964170	-2444
chr17	87427185	87427234	transcription	-	87424741	87424741	-2468
chr17	87427075	87427124	transcription	-	87424741	87424741	-2358
chr17	87426995	87427045	transcription	-	87424741	87424741	-2279
chr9	45711829	45711878	transcription	+	45714651	45714651	-2797
chr9	45712164	45712226	transcription	+	45714651	45714651	-2456

chr9	45711964	45712013	transcription	+	45714651	45714651	-2662
chr10	75910009	75910058	transcription	-	75905657	75905657	-4376
chr10	75910414	75910466	transcription	-	75905657	75905657	-4783
chr10	75910509	75910558	transcription	-	75905657	75905657	-4876
chr10	75910604	75910656	transcription	-	75905657	75905657	-4973
chr10	75910199	75910248	transcription	-	75905657	75905657	-4566
chr10	75910304	75910356	transcription	-	75905657	75905657	-4673
chr10	75909899	75909953	transcription	-	75905657	75905657	-4269
chr10	75908238	75908299	transcription	-	75905657	75905657	-2611
chrX	97688744	97688800	transcription	+	97689683	97689683	-911
chrX	97688544	97688593	transcription	+	97689683	97689683	-1114
chrX	97688639	97688698	transcription	+	97689683	97689683	-1014
chrX	97688839	97688896	transcription	+	97689683	97689683	-815
chrX	97688929	97688979	transcription	+	97689683	97689683	-729
chr3	63098985	63099042	transcription	+	63099793	63099793	-779
chr3	63098795	63098853	transcription	+	63099793	63099793	-969
chr3	63098905	63098954	transcription	+	63099793	63099793	-863
chr15	101526346	101526395	transcription	-	101524736	101524736	-1634
chr15	101526426	101526475	transcription	-	101524736	101524736	-1714
chr15	101526231	101526280	transcription	-	101524736	101524736	-1519
chr7	51826938	51826987	transcription	+	51827814	51827814	-851
chr7	51827048	51827097	transcription	+	51827814	51827814	-741
chr7	51827133	51827182	transcription	+	51827814	51827814	-656
chr11	43414494	43414544	transcription	-	43415013	43415013	494
chr11	43414579	43414635	transcription	-	43415013	43415013	406
chr11	43414694	43414754	transcription	-	43415013	43415013	289
chr11	43414839	43414888	transcription	-	43415013	43415013	149
chr1	175913609	175913658	transcription	-	175912975	175912975	-658
chr1	175913689	175913746	transcription	-	175912975	175912975	-742
chr1	175913924	175913973	transcription	-	175912975	175912975	-973
chr1	175913804	175913857	transcription	-	175912975	175912975	-855
chr9	107476770	107476819	transcription	+	107479282	107479282	-2487
chr9	107476850	107476908	transcription	+	107479282	107479282	-2403
chr9	107476950	107476999	transcription	+	107479282	107479282	-2307
chr9	107477050	107477099	transcription	+	107479282	107479282	-2207
chr9	107477150	107477199	transcription	+	107479282	107479282	-2107
chr9	107478570	107478619	transcription	+	107479282	107479282	-687
chr4	137022753	137022802	transcription	+	137024717	137024717	-1939
chr4	137022843	137022892	transcription	+	137024717	137024717	-1849
chr4	137022943	137022992	transcription	+	137024717	137024717	-1749
chr11	115889359	115889424	transcription	-	115885818	115885818	-3573
chr11	11588969	115889024	transcription	-	115885818	115885818	-3178
chr11	115889179	115889228	transcription	-	115885818	115885818	-3385
chr11	115889464	115889513	transcription	-	115885818	115885818	-3670
chr11	115889054	115889103	transcription	-	115885818	115885818	-3260
chr11	59008254	59008310	transcription	-	59005454	59005454	-2828
chr11	59008339	59008388	transcription	-	59005454	59005454	-2909
chr11	59008139	59008195	transcription	-	59005454	59005454	-2713
chr4	33149945	33149994	transcription	+	33150086	33150086	-116
chr4	33149348	33149402	transcription	+	33150086	33150086	-711
chr4	33149428	33149479	transcription	+	33150086	33150086	-632
chr4	33149548	33149606	transcription	+	33150086	33150086	-509
chr4	33149650	33149702	transcription	+	33150086	33150086	-410



chr4	33149745	33149801	transcription	+	33150086	33150086	-313
chr4	33149830	33149887	transcription	+	33150086	33150086	-227
chr5	93694812	93694869	transcription	+	93696598	93696598	-1757
chr5	93694507	93694556	transcription	+	93696598	93696598	-2066
chr5	93694187	93694243	transcription	+	93696598	93696598	-2383
chr5	93694287	93694344	transcription	+	93696598	93696598	-2282
chr5	93694367	93694426	transcription	+	93696598	93696598	-2201
chr5	93694602	93694661	transcription	+	93696598	93696598	-1966
chr5	93694712	93694761	transcription	+	93696598	93696598	-1861
chr5	93694897	93694955	transcription	+	93696598	93696598	-1672
chrX	140264068	140264123	transcription	-	140261955	140261955	-2140
chrX	140261617	140261671	transcription	-	140261955	140261955	311
chrX	140261717	140261766	transcription	-	140261955	140261955	213
chrX	140261837	140261886	transcription	-	140261955	140261955	93
chrX	140261917	140261966	transcription	-	140261955	140261955	13
chr9	89094044	89094093	transcription	+	89094029	89094029	39
chr9	89093964	89094015	transcription	+	89094029	89094029	-39
chr9	89093719	89093770	transcription	+	89094029	89094029	-284
chrX	70958987	70959037	transcription	+	70961935	70961935	-2923
chrX	70959097	70959154	transcription	+	70961935	70961935	-2809
chrX	70959187	70959244	transcription	+	70961935	70961935	-2719
chr19	54118435	54118489	transcription	+	54119671	54119671	-1209
chr19	54118520	54118579	transcription	+	54119671	54119671	-1121
chr19	54118625	54118682	transcription	+	54119671	54119671	-1017
chr6	128477280	128477329	transcription	-	128476738	128476738	-566
chr6	128476895	128476944	transcription	-	128476738	128476738	-181
chr6	128476975	128477028	transcription	-	128476738	128476738	-263
chr6	128477075	128477134	transcription	-	128476738	128476738	-366
chr6	128477195	128477250	transcription	-	128476738	128476738	-484
chr2	158489509	158489562	transcription	+	158492870	158492870	-3334
chr2	158489689	158489738	transcription	+	158492870	158492870	-3156
chr2	158489829	158489886	transcription	+	158492870	158492870	-3012
chr10	80091781	80091830	transcription	+	80092400	80092400	-594
chr10	80091981	80092030	transcription	+	80092400	80092400	-394
chr10	80091871	80091920	transcription	+	80092400	80092400	-504
chr7	53176398	53176447	transcription	-	53176219	53176219	-203
chr7	53176704	53176753	transcription	-	53176219	53176219	-509
chr7	53176794	53176851	transcription	-	53176219	53176219	-603
chr7	53176483	53176532	transcription	-	53176219	53176219	-288
chr7	53176984	53177033	transcription	-	53176219	53176219	-789
chr7	53176583	53176637	transcription	-	53176219	53176219	-391
chr7	53176884	53176933	transcription	-	53176219	53176219	-689
chr12	32893678	32893735	transcription	-	32893203	32893203	-503
chr12	32893773	32893825	transcription	-	32893203	32893203	-596
chr12	32893488	32893537	transcription	-	32893203	32893203	-309
chr12	32893563	32893628	transcription	-	32893203	32893203	-392
chr12	32893678	32893735	transcription	-	32893514	32893514	-192
chr12	32893773	32893825	transcription	-	32893514	32893514	-285
chr12	32893488	32893537	transcription	-	32893514	32893514	1
chr12	32893563	32893628	transcription	-	32893514	32893514	-81
chr10	59744950	59745001	transcription	+	59747208	59747208	-2232
chr10	59745055	59745104	transcription	+	59747208	59747208	-2128
chr10	59745165	59745216	transcription	+	59747208	59747208	-2017

chr10	59745260	59745309	transcription	+	59747208	59747208	-1923
chr10	59745365	59745414	transcription	+	59747208	59747208	-1818
chr10	59745555	59745605	transcription	+	59747208	59747208	-1628
chr10	59745470	59745519	transcription	+	59747208	59747208	-1713
chr6	85854516	85854568	transcription	-	85852527	85852527	-2015
chr6	85854716	85854765	transcription	-	85852527	85852527	-2213
chr6	85854821	85854870	transcription	-	85852527	85852527	-2318
chr2	150080784	150080839	transcription	+	150083252	150083252	-2440
chr2	150080354	150080415	transcription	+	150083252	150083252	-2867
chr2	150080464	150080514	transcription	+	150083252	150083252	-2763
chr2	150080544	150080600	transcription	+	150083252	150083252	-2680
chr17	70869110	70869159	transcription	+	70871449	70871449	-2314
chr17	70868612	70868670	transcription	+	70871449	70871449	-2808
chr17	70868708	70868757	transcription	+	70871449	70871449	-2716
chr17	70868995	70869045	transcription	+	70871449	70871449	-2429
chr17	15149870	15149926	transcription	-	15147148	15147148	-2750
chr17	15118498	15118554	transcription	-	15115776	15115776	-2750
chr17	15149990	15150039	transcription	-	15147148	15147148	-2866
chr17	15149870	15149926	transcription	-	15147148	15147148	-2750
chr17	15118498	15118554	transcription	-	15115776	15115776	-2750
chr17	15149990	15150039	transcription	-	15147148	15147148	-2866
chr9	113647902	113647960	transcription	+	113650590	113650590	-2659
chr9	113647987	113648039	transcription	+	113650590	113650590	-2577
chr9	113648102	113648151	transcription	+	113650590	113650590	-2463
chr9	113647687	113647746	transcription	+	113650590	113650590	-2873
chr7	4014592	4014641	transcription	-	4014806	4014806	189
chr7	4014692	4014741	transcription	-	4014806	4014806	89
chr7	4014797	4014846	transcription	-	4014806	4014806	-15
chr9	26668388	26668437	transcription	-	26668408	26668408	-4
chr9	26668493	26668542	transcription	-	26668408	26668408	-109
chr9	26668588	26668645	transcription	-	26668408	26668408	-208
chr9	26668793	26668844	transcription	-	26668408	26668408	-410
chr13	41582160	41582215	transcription	-	41582689	41582689	501
chr13	41582270	41582328	transcription	-	41582689	41582689	390
chr13	41582365	41582414	transcription	-	41582689	41582689	299
chr13	41582870	41582919	transcription	-	41582689	41582689	-205
chrX	54215551	54215604	transcription	+	54216582	54216582	-1004
chrX	54215651	54215700	transcription	+	54216582	54216582	-906
chrX	54215761	54215817	transcription	+	54216582	54216582	-793
chr15	102300677	102300726	transcription	+	102301062	102301062	-360
chr15	102300581	102300637	transcription	+	102301062	102301062	-453
chr15	102300396	102300445	transcription	+	102301062	102301062	-641
chr15	102300501	102300564	transcription	+	102301062	102301062	-529
chr15	102300677	102300726	transcription	+	102301062	102301062	-360
chr15	102300581	102300637	transcription	+	102301062	102301062	-453
chr15	102300396	102300445	transcription	+	102301062	102301062	-641
chr15	102300501	102300564	transcription	+	102301062	102301062	-529
chrX	71727719	71727768	transcription	-	71726738	71726738	-1005
chrX	71727409	71727458	transcription	-	71726738	71726738	-695
chrX	71727499	71727548	transcription	-	71726738	71726738	-785
chrX	71727599	71727648	transcription	-	71726738	71726738	-885
chrX	154007055	154007104	transcription	-	154006917	154006917	-162
chrX	154007175	154007231	transcription	-	154006917	154006917	-286

chrX	154007255	154007306	transcription	-	154006917	154006917	-363
chrX	154007365	154007417	transcription	-	154006917	154006917	-474
chr2	121302694	121302750	transcription	-	121299759	121299759	-2963
chr2	121302574	121302630	transcription	-	121299759	121299759	-2843
chr2	121302494	121302554	transcription	-	121299759	121299759	-2765
chr2	121302294	121302343	transcription	-	121299759	121299759	-2559
chr2	121302394	121302455	transcription	-	121299759	121299759	-2665
chr2	121302089	121302138	transcription	-	121299759	121299759	-2354
chr2	121302184	121302233	transcription	-	121299759	121299759	-2449
chr11	6507586	6507635	transcription	-	6506057	6506057	-1553
chr11	6507676	6507725	transcription	-	6506057	6506057	-1643
chr11	6507891	6507945	transcription	-	6506057	6506057	-1861
chr7	109266633	109266687	transcription	-	109265227	109265227	-1433
chr7	109266718	109266768	transcription	-	109265227	109265227	-1516
chr7	109266428	109266478	transcription	-	109265227	109265227	-1226
chr7	109266533	109266582	transcription	-	109265227	109265227	-1330
chr2	172946889	172946938	transcription	-	172945026	172945026	-1887
chr2	172947108	172947162	transcription	-	172945026	172945026	-2109
chr2	172947188	172947243	transcription	-	172945026	172945026	-2189
chr2	172947350	172947399	transcription	-	172945026	172945026	-2348
chr2	172947445	172947496	transcription	-	172945026	172945026	-2444
chr2	172947009	172947058	transcription	-	172945026	172945026	-2007
chr2	172946794	172946843	transcription	-	172945026	172945026	-1792
chr19	6933333	6933383	transcription	-	6932701	6932701	-657
chr19	6933428	6933486	transcription	-	6932701	6932701	-756
chr19	6933583	6933632	transcription	-	6932701	6932701	-906
chr19	6933683	6933739	transcription	-	6932701	6932701	-1010
chr19	6933783	6933832	transcription	-	6932701	6932701	-1106
chr2	25431299	25431348	transcription	-	25426836	25426836	-4487
chr2	25431399	25431448	transcription	-	25426836	25426836	-4587
chr2	25431519	25431568	transcription	-	25426836	25426836	-4707
chr2	25431599	25431648	transcription	-	25426836	25426836	-4787
chr5	54386997	54387047	transcription	+	54389808	54389808	-2786
chr5	54387097	54387146	transcription	+	54389808	54389808	-2686
chr5	54387187	54387236	transcription	+	54389808	54389808	-2596
chr5	54387307	54387363	transcription	+	54389808	54389808	-2473
chr5	54387392	54387441	transcription	+	54389808	54389808	-2391
chr5	54386907	54386956	transcription	+	54389808	54389808	-2876
chr11	5346687	5346739	transcription	-	5344850	5344850	-1863
chr11	5346767	5346829	transcription	-	5344850	5344850	-1948
chr11	5346867	5346919	transcription	-	5344850	5344850	-2043
chr11	5347159	5347217	transcription	-	5344850	5344850	-2338
chr2	172219007	172219056	transcription	+	172219402	172219402	-370
chr2	172219087	172219136	transcription	+	172219402	172219402	-290
chr2	172217383	172217432	transcription	+	172219402	172219402	-1994
chr4	150299351	150299401	transcription	+	150302107	150302107	-2731
chr4	150299466	150299515	transcription	+	150302107	150302107	-2616
chr4	150299571	150299621	transcription	+	150302107	150302107	-2511
chr17	24486444	24486496	transcription	+	24488990	24488990	-2520
chr17	24486534	24486595	transcription	+	24488990	24488990	-2425
chr17	24486634	24486684	transcription	+	24488990	24488990	-2331
chr17	24486334	24486383	transcription	+	24488990	24488990	-2631
chr4	146550285	146550334	transcription	+	146549974	146549974	335

chr4	146550430	146550482	transcription	+	146549974	146549974	482
chr4	146550515	146550564	transcription	+	146549974	146549974	565
chr11	120807837	120807886	transcription	+	120810380	120810380	-2518
chr11	120807662	120807711	transcription	+	120810380	120810380	-2693
chr11	120807762	120807811	transcription	+	120810380	120810380	-2593
chr11	120807837	120807886	transcription	+	120810380	120810380	-2518
chr11	120807662	120807711	transcription	+	120810380	120810380	-2693
chr11	120807762	120807811	transcription	+	120810380	120810380	-2593
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr4	58299547	58299602	transcription	+	58298833	58298833	741
chr4	58298345	58298397	transcription	+	58298833	58298833	-462
chr4	58299426	58299477	transcription	+	58298833	58298833	618
chr19	40478883	40478934	transcription	-	40476800	40476800	-2108
chr19	40478683	40478732	transcription	-	40476800	40476800	-1907
chr19	40478768	40478824	transcription	-	40476800	40476800	-1996
chr9	102639360	102639409	transcription	+	102641977	102641977	-2592
chr9	102639150	102639211	transcription	+	102641977	102641977	-2796
chr9	102639450	102639499	transcription	+	102641977	102641977	-2502
chr9	102639040	102639089	transcription	+	102641977	102641977	-2912
chr17	34461732	34461781	transcription	+	34462619	34462619	-862
chr17	34461827	34461883	transcription	+	34462619	34462619	-764
chr17	34461932	34461990	transcription	+	34462619	34462619	-658
chr2	172219007	172219056	transcription	+	172219293	172219293	-261
chr2	172219087	172219136	transcription	+	172219293	172219293	-181
chr2	172217383	172217432	transcription	+	172219293	172219293	-1885
chr13	43402253	43402304	transcription	-	43399541	43399541	-2737
chr13	43401838	43401894	transcription	-	43399541	43399541	-2325
chr13	43401953	43402002	transcription	-	43399541	43399541	-2436
chr13	43402053	43402109	transcription	-	43399541	43399541	-2540
chr13	43402138	43402187	transcription	-	43399541	43399541	-2621
chr8	3351636	3351685	transcription	+	3353459	3353459	-1798
chr8	3351726	3351775	transcription	+	3353459	3353459	-1708
chr8	3351826	3351876	transcription	+	3353459	3353459	-1608
chr8	3351946	3351998	transcription	+	3353459	3353459	-1487
chr8	3352046	3352095	transcription	+	3353459	3353459	-1388
chr7	129126760	129126816	transcription	-	129125207	129125207	-1581
chr7	129126340	129126399	transcription	-	129125207	129125207	-1162
chr7	129126620	129126681	transcription	-	129125207	129125207	-1443
chr17	32328942	32328995	transcription	-	32326408	32326408	-2560
chr17	32329027	32329087	transcription	-	32326408	32326408	-2649
chr17	32329142	32329193	transcription	-	32326408	32326408	-2759
chr17	32329237	32329286	transcription	-	32326408	32326408	-2853
chr17	32329327	32329376	transcription	-	32326408	32326408	-2943
chr8	47061795	47061846	transcription	-	47060606	47060606	-1214
chr8	47061695	47061744	transcription	-	47060606	47060606	-1113

chr8	47061585	47061634	transcription	-	47060606	47060606	-1003
chr8	47059805	47059854	transcription	-	47060606	47060606	776
chr17	24486444	24486496	transcription	-	24484197	24484197	-2273
chr17	24486534	24486595	transcription	-	24484197	24484197	-2367
chr17	24486634	24486684	transcription	-	24484197	24484197	-2462
chr17	24486334	24486383	transcription	-	24484197	24484197	-2161
chr8	3566055	3566104	transcription	+	3567997	3567997	-1917
chr8	3565860	3565909	transcription	+	3567997	3567997	-2112
chr8	3565955	3566005	transcription	+	3567997	3567997	-2017
chr8	3566145	3566202	transcription	+	3567997	3567997	-1823
chr8	3566240	3566289	transcription	+	3567997	3567997	-1732
chr10	85060413	85060474	transcription	+	85061155	85061155	-711
chr10	85060644	85060700	transcription	+	85061155	85061155	-483
chr10	85060739	85060788	transcription	+	85061155	85061155	-391
chr10	85060939	85060988	transcription	+	85061155	85061155	-191
chr10	85060829	85060878	transcription	+	85061155	85061155	-301
chr1	175347977	175348033	transcription	+	175350734	175350734	-2729
chr1	175348289	175348338	transcription	+	175350734	175350734	-2420
chr1	175348077	175348140	transcription	+	175350734	175350734	-2625
chr4	43514991	43515040	transcription	-	43512532	43512532	-2483
chr4	43515091	43515140	transcription	-	43512532	43512532	-2583
chr4	43515186	43515242	transcription	-	43512532	43512532	-2682
chr1	36504294	36504353	transcription	-	36502084	36502084	-2239
chr1	36503087	36503136	transcription	-	36502084	36502084	-1027
chr1	36503192	36503241	transcription	-	36502084	36502084	-1132
chr11	58408742	58408791	transcription	+	58410893	58410893	-2126
chr11	58408857	58408906	transcription	+	58410893	58410893	-2011
chr11	58408034	58408090	transcription	+	58410893	58410893	-2831
chr1_random	171263	171312	transcription	-	169487	169487	-1800
chr1_random	170958	171012	transcription	-	169487	169487	-1498
chr1_random	170568	170618	transcription	-	169487	169487	-1106
chr1_random	170763	170813	transcription	-	169487	169487	-1301
chr1_random	170848	170917	transcription	-	169487	169487	-1395
chr1_random	171068	171124	transcription	-	169487	169487	-1609
chr1_random	170668	170727	transcription	-	169487	169487	-1210
chr1_random	171153	171209	transcription	-	169487	169487	-1694
chr1_random	170463	170512	transcription	-	169487	169487	-1000
chr9	109138966	109139027	transcription	-	109137238	109137238	-1758
chr9	109138851	109138913	transcription	-	109137238	109137238	-1644
chr9	109138751	109138801	transcription	-	109137238	109137238	-1538
chr6	140570994	140571050	transcription	+	140572209	140572209	-1187
chr6	140571089	140571138	transcription	+	140572209	140572209	-1095
chr6	140571309	140571358	transcription	+	140572209	140572209	-875
chr6	140571399	140571448	transcription	+	140572209	140572209	-785
chr17	17199564	17199622	transcription	+	17201076	17201076	-1483
chr17	17199359	17199415	transcription	+	17201076	17201076	-1689
chr17	17199464	17199526	transcription	+	17201076	17201076	-1581
chr17	17199664	17199722	transcription	+	17201076	17201076	-1383
chr17	17199754	17199808	transcription	+	17201076	17201076	-1295
chr8	23298900	23298949	transcription	-	23296291	23296291	-2633
chr8	23298995	23299044	transcription	-	23296291	23296291	-2728
chr8	23298795	23298844	transcription	-	23296291	23296291	-2528
chr17	29271082	29271131	transcription	+	29272000	29272000	-893

chr17	29271182	29271231	transcription	+	29272000	29272000	-793
chr17	29271287	29271336	transcription	+	29272000	29272000	-688

For Review Only

genes identified in murine foetal dorsal skin before and after the transition from scarless to norm

Accession	Name	Description	ncbi_gene_id	Methylation peak value			
				E15	E18	E19	Adult
<i>at E15 versus E18</i>							
NR_015388	Dlx6os1	Dlx6 opposite	320038	0.6586	2.0023	2.7398	2.695
NR_015388	Dlx6os1	Dlx6 opposite	320038	0.6586	2.0023	2.7398	2.695
NR_015388	Dlx6os1	Dlx6 opposite	320038	0.6586	2.0023	2.5671	2.5293
NR_002839	Dlx6as	distal-less ho	13397	0.6586	2.0023	2.7398	2.695
NR_002839	Dlx6as	distal-less ho	13397	0.6586	2.0023	2.7398	2.695
NR_002839	Dlx6as	distal-less ho	13397	0.6586	2.0023	2.5671	2.5293
NM_213614	Sept5	septin 5	18951	0.6292	2.7058	2.6295	3.8612
NM_213614	Sept5	septin 5	18951	0.2814	2.3919	2.3235	3.4266
NM_213614	Sept5	septin 5	18951	0.1138	2.3285	2.6295	3.4633
NM_207691	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_207691	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_207691	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_207691	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_207691	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_207691	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_207691	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_207691	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207691	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207691	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_207690	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_207690	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_207690	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_207690	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_207690	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_207690	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_207690	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207690	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207690	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_207689	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_207689	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928

NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.7063	2.5243	0.7612	2.2111
NM_207689	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_207689	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_207689	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_207689	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_207689	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_207689	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207689	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207689	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_207688	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_207688	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.7063	2.5243	0.7612	2.2111
NM_207688	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_207688	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_207688	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_207688	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_207688	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_207688	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207688	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207688	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_207687	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_207687	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.7063	2.5243	0.7612	2.2111
NM_207687	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_207687	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_207687	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_207687	Espn	espin	56226	0.7345	2.2702	3.0559	3.0399
NM_207687	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_207687	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_207687	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207687	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_207687	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_207687	Espn	espin	56226	0.7345	2.0211	1.9649	1.9518
NM_198671	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_198671	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_198671	Gse1	genetic supp	382034	0.6704	2.5734	2.2897	2.7639
NM_198671	Gse1	genetic supp	382034	0.6704	2.3251	1.3443	1.8424
NM_183408	Pde4a	phosphodies	18577	0.8676	2.1657	0.6493	0.9475
NM_183408	Pde4a	phosphodies	18577	0.8676	2.1657	0.6493	0.9475
NM_183408	Pde4a	phosphodies	18577	0.8676	2.041	0.6493	0.9475
NM_183261	Nr2f2	nuclear receg	11819	0.7169	2.7548	3.3307	3.2589
NM_183261	Nr2f2	nuclear receg	11819	0.7169	2.7548	3.3307	3.2589



NM_183261	Nr2f2	nuclear recep	11819	0	2.0918	1.7413	3.2432
NM_183261	Nr2f2	nuclear recep	11819	0	2.0918	1.7413	3.2432
NM_181418	Ushbp1	Usher syndro	234395	0.7261	2.4814	1.6232	2.5951
NM_181418	Ushbp1	Usher syndro	234395	0.4221	2.3574	1.1188	2.228
NM_181418	Ushbp1	Usher syndro	234395	0.349	2.0798	1.3706	2.9908
NM_181418	Ushbp1	Usher syndro	234395	0.9031	2.0798	1.4701	2.2927
NM_177090	Cdh29	cadherin-like	320169	0.7485	2.6521	0.4319	1.1061
NM_177090	Cdh29	cadherin-like	320169	0.7485	2.6521	0.4319	1.1061
NM_177090	Cdh29	cadherin-like	320169	0.7485	2.6521	0.4319	1.1061
NM_177090	Cdh29	cadherin-like	320169	0.7485	2.6521	0.4319	1.1061
NM_177090	Cdh29	cadherin-like	320169	0.6393	2.3438	0.3576	0.9592
NM_177082	Sp8	trans-acting t	320145	0.7796	2.6515	3.0945	2.4822
NM_177082	Sp8	trans-acting t	320145	0.6774	2.3616	2.7638	2.1746
NM_177082	Sp8	trans-acting t	320145	0.6442	2.2632	3.2629	2.0574
NM_176973	Podxl2	podocalyxin-	319655	0.78	2.2222	2.3804	1.9465
NM_176973	Podxl2	podocalyxin-	319655	0.9035	2.2222	2.3804	1.9465
NM_176973	Podxl2	podocalyxin-	319655	0.9035	2.2222	2.3804	1.9465
NM_176973	Podxl2	podocalyxin-	319655	0.6674	2.1279	1.143	1.7119
NM_175641	Ltbp4	latent transfc	108075	0.5105	2.1137	0.8377	0.1644
NM_175641	Ltbp4	latent transfc	108075	0.5105	2.1137	0.8377	0.1644
NM_175641	Ltbp4	latent transfc	108075	0.9814	2.1137	0.8377	0.1644
NM_175366	Mex3b	mex3 homolo	108797	0.5749	2.5924	1.7909	4.7685
NM_175366	Mex3b	mex3 homolo	108797	0.5469	2.3651	2.165	3.5818
NM_175366	Mex3b	mex3 homolo	108797	0.0852	2.073	1.7764	4.9115
NM_175366	Mex3b	mex3 homolo	108797	0.0852	2.073	0.9286	4.7685
NM_175160	Zdhhc1	zinc finger, D	70796	0.8927	3.5474	3.5442	4.5159
NM_175160	Zdhhc1	zinc finger, D	70796	0.3391	3.0035	2.9791	3.9028
NM_175160	Zdhhc1	zinc finger, D	70796	0.4109	2.897	2.9247	4.3595
NM_175160	Zdhhc1	zinc finger, D	70796	0.4109	2.897	2.9247	4.3595
NM_173430	Fkrp	fukutin relate	243853	0.4253	3.4643	3.4962	5.5486
NM_173430	Fkrp	fukutin relate	243853	0.7744	3.0711	2.9586	5.1886
NM_173430	Fkrp	fukutin relate	243853	0.9323	2.4579	2.4041	3.7115
NM_173430	Fkrp	fukutin relate	243853	0.6369	2.2817	1.9551	4.0417
NM_173430	Fkrp	fukutin relate	243853	0.7239	2.0341	1.9886	3.0952
NM_153537	Phldb1	pleckstrin ho	102693	0.9511	2.6695	3.946	4.2012
NM_153537	Phldb1	pleckstrin ho	102693	0.9473	2.5725	2.8166	3.0039
NM_153537	Phldb1	pleckstrin ho	102693	0.9164	2.4028	2.4804	3.3661
NM_153537	Phldb1	pleckstrin ho	102693	0.9164	2.4028	2.4804	3.3661
NM_153537	Phldb1	pleckstrin ho	102693	0.7851	2.2753	3.3823	3.6036
NM_153537	Phldb1	pleckstrin ho	102693	0.7743	2.0868	2.1553	2.9375
NM_146127	Fam110a	family with s	73847	0.0163	3.1159	2.2078	2.0988
NM_146127	Fam110a	family with s	73847	0.0096	2.7591	1.8314	1.8482
NM_146127	Fam110a	family with s	73847	0.0049	2.4015	1.5521	1.597
NM_146127	Fam110a	family with s	73847	0.0002	2.2215	1.2792	1.2107
NM_146127	Fam110a	family with s	73847	0.002	2.0428	1.3061	1.3451
NM_146016	Eml6	echinoderm	237711	0.8563	2.4983	0.7947	1.223
NM_146016	Eml6	echinoderm	237711	0.8563	2.4983	0.7947	1.223
NM_146016	Eml6	echinoderm	237711	0.8595	2.1976	0.5653	0.8247
NM_138670	Mpst	mercaptopyr	246221	0.5316	2.4616	2.4696	4.1736
NM_138670	Mpst	mercaptopyr	246221	0.1008	2.2823	2.0143	4.8584
NM_138670	Mpst	mercaptopyr	246221	0.1008	2.2823	2.0143	4.8584
NM_138670	Mpst	mercaptopyr	246221	0.1008	2.2823	2.0143	4.8584
NM_138670	Mpst	mercaptopyr	246221	0.4059	2.0373	1.8208	3.4864

NM_134112	Kctd1	potassium ch	106931	0.0001	2.5558	1.7734	3.1395
NM_134112	Kctd1	potassium ch	106931	0.0001	2.5558	1.7734	3.1395
NM_134112	Kctd1	potassium ch	106931	0	2.539	2.2829	5.2107
NM_134112	Kctd1	potassium ch	106931	0	2.2425	1.7838	4.6351
NM_134112	Kctd1	potassium ch	106931	0	2.2425	1.7838	4.6351
NM_134097	Topors	topoisomera	106021	0.5482	2.7027	2.3858	1.1492
NM_134097	Topors	topoisomera	106021	0.1763	2.1001	1.6209	0.6457
NM_134097	Topors	topoisomera	106021	0.3662	2.0087	2.1598	1.25
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.3832
NM_080553	Itpr3	inositol 1,4,5	16440	0.9311	2.0372	0.8148	1.4189
NM_030595	Nbea	neurobeachi	26422	0.1316	3.343	2.4968	1.2237
NM_030595	Nbea	neurobeachi	26422	0.1316	3.343	2.4968	1.2237
NM_030595	Nbea	neurobeachi	26422	0.6286	3.343	2.4968	1.8453
NM_030595	Nbea	neurobeachi	26422	0.5457	2.9625	2.2047	1.5155
NM_030595	Nbea	neurobeachi	26422	0.4482	2.5811	2.4518	2.2386
NM_030595	Nbea	neurobeachi	26422	0.3515	2.3943	2.0864	1.9015
NM_030595	Nbea	neurobeachi	26422	0.0254	2.2019	1.5101	0.5247
NM_030595	Nbea	neurobeachi	26422	0.0254	2.2019	1.5101	0.5247
NM_030152	Nol3	nucleolar pro	78688	0.9539	2.4436	1.1446	1.3299
NM_030152	Nol3	nucleolar pro	78688	0.9539	2.4436	1.1446	1.3299
NM_030152	Nol3	nucleolar pro	78688	0.9539	2.4436	1.1446	1.3299
NM_030152	Nol3	nucleolar pro	78688	0.6702	2.0793	0.9528	1.1134
NM_030152	Nol3	nucleolar pro	78688	0.6702	2.0793	0.9528	1.1134
NM_029939	Ccdc151	coiled-coil dc	77609	0.857	2.493	1.2449	1.9176
NM_029939	Ccdc151	coiled-coil dc	77609	0.2501	2.2053	1.2449	1.9176
NM_029939	Ccdc151	coiled-coil dc	77609	0.6169	2.2012	1.0835	1.6859
NM_029939	Ccdc151	coiled-coil dc	77609	0.6593	2.2012	1.0835	1.6859
NM_029802	Arfip2	ADP-ribosyla	76932	0.5734	2.7191	1.3876	1.4078
NM_029802	Arfip2	ADP-ribosyla	76932	0.5734	2.7191	1.3876	1.3411
NM_029802	Arfip2	ADP-ribosyla	76932	0.5734	2.7191	1.3876	1.3411
NM_029802	Arfip2	ADP-ribosyla	76932	0.5734	2.7191	1.3876	1.3411
NM_029628	Ppp1r3g	protein phos	76487	0.5887	2.1436	2.964	2.2202
NM_029628	Ppp1r3g	protein phos	76487	0.7849	2.1436	2.964	2.2217
NM_029628	Ppp1r3g	protein phos	76487	0.7849	2.1436	2.964	2.2217
NM_028807	1200009I06R	RIKEN cDNA	74190	0.171	2.3571	1.7941	2.3649
NM_028807	1200009I06R	RIKEN cDNA	74190	0.3901	2.2614	2.168	2.6807
NM_028807	1200009I06R	RIKEN cDNA	74190	0.1268	2.0464	1.5843	2.0053
NM_028807	1200009I06R	RIKEN cDNA	74190	0.1268	2.0464	1.5843	2.0053
NM_028807	1200009I06R	RIKEN cDNA	74190	0.4934	2.0464	1.4243	2.0053
NM_028657	F630110N24	RIKEN cDNA	73822	0.7497	2.2911	2.1268	3.4068
NM_028657	F630110N24	RIKEN cDNA	73822	0.9567	2.2698	2.4481	3.5318
NM_028657	F630110N24	RIKEN cDNA	73822	0.9567	2.2698	2.4481	3.5318
NM_028369	Mon1a	MON1 homo	72825	0.5774	2.9458	2.1025	3.8431
NM_028369	Mon1a	MON1 homo	72825	0.5774	2.9458	2.1025	3.8431
NM_028369	Mon1a	MON1 homo	72825	0.4	2.5663	1.6877	3.2167
NM_028369	Mon1a	MON1 homo	72825	0.4	2.5663	1.6877	3.2167
NM_028369	Mon1a	MON1 homo	72825	0.4552	2.2376	2.0352	2.2813
NM_028369	Mon1a	MON1 homo	72825	0.3106	2.1858	1.2747	2.7498

NM_028369	Mon1a	MON1 homol	72825	0.3106	2.1858	1.2747	2.7498
NM_027910	Klhdc3	kelch domain	71765	0.6798	2.8268	1.2088	1.5992
NM_027910	Klhdc3	kelch domain	71765	0.6798	2.1177	2.0916	2.6072
NM_027910	Klhdc3	kelch domain	71765	0.6798	2.1177	1.2658	2.3667
NM_027910	Klhdc3	kelch domain	71765	0.6798	2.1177	1.2658	2.3667
NM_027195	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_027195	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_027195	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_027195	Cas21	castor homol	69743	0.2752	2.7495	2.3341	3.583
NM_027195	Cas21	castor homol	69743	0.2752	2.571	1.6184	2.2192
NM_027195	Cas21	castor homol	69743	0.2262	2.3122	1.9294	2.9864
NM_027195	Cas21	castor homol	69743	0.1953	2.1299	1.3236	1.6194
NM_026837	Tmem53	transmembra	68777	0.9752	3.0368	0.9733	0.9185
NM_026837	Tmem53	transmembra	68777	0.9623	2.6396	1.24	1.1781
NM_026837	Tmem53	transmembra	68777	0.8289	2.4534	1.24	0.8991
NM_026837	Tmem53	transmembra	68777	0.8289	2.4534	1.24	0.8991
NM_026837	Tmem53	transmembra	68777	0.8289	2.4534	1.24	0.8991
NM_026837	Tmem53	transmembra	68777	0.842	2.3257	0.8403	0.7146
NM_026837	Tmem53	transmembra	68777	0.6971	2.1315	1.2234	0.7591
NM_026837	Tmem53	transmembra	68777	0.7087	2.0187	0.7072	0.5964
NM_026615	Urm1	ubiquitin rela	68205	0.7716	5.4742	4.1828	5.9176
NM_026615	Urm1	ubiquitin rela	68205	0.8965	4.9998	4.4196	5.0267
NM_026615	Urm1	ubiquitin rela	68205	0.8965	4.9998	4.4196	5.0267
NM_026615	Urm1	ubiquitin rela	68205	0.5218	4.9056	4.1161	5.2881
NM_026615	Urm1	ubiquitin rela	68205	0.6467	4.7993	3.6588	5.6469
NM_026615	Urm1	ubiquitin rela	68205	0.3369	3.6015	3.106	5.0267
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.7764	2.5356	1.7941	5.6986
NM_025629	Adamts15	ADAMTS-like	66548	0.6642	2.4956	1.4755	5.1196
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	2.4512	2.4381	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	2.4512	2.4381	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	2.4512	1.6826	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.5452	2.4512	1.6826	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.7764	2.4512	1.6826	4.2367
NM_025629	Adamts15	ADAMTS-like	66548	0.8919	2.3451	1.4005	3.643
NM_025629	Adamts15	ADAMTS-like	66548	0.5521	2.0241	1.2678	4.486
NM_024469	Bhlhe41	basic helix-lo	79362	0.9222	3.2965	5.1505	4.1858
NM_024469	Bhlhe41	basic helix-lo	79362	0.9222	3.2965	5.1505	4.1858
NM_024469	Bhlhe41	basic helix-lo	79362	0.7153	2.7835	4.4119	3.5638
NM_024469	Bhlhe41	basic helix-lo	79362	0.5115	2.271	3.6726	2.9416
NM_024469	Bhlhe41	basic helix-lo	79362	0.6727	2.1633	3.8433	2.9078
NM_023699	Nfatc4	nuclear facto	73181	0.8414	2.9426	2.8486	3.8224
NM_023699	Nfatc4	nuclear facto	73181	0.8414	2.9426	2.8486	3.8224
NM_023699	Nfatc4	nuclear facto	73181	0.7954	2.6959	2.6503	2.5464
NM_023699	Nfatc4	nuclear facto	73181	0.7954	2.6959	2.6503	2.5464
NM_021478	Tulp1	tubby like pro	22157	0.7904	3.6133	3.3024	4.0039
NM_021478	Tulp1	tubby like pro	22157	0.2266	2.4267	2.1682	4.0039
NM_021478	Tulp1	tubby like pro	22157	0.1293	2.099	2.0281	4.0039
NM_021478	Tulp1	tubby like pro	22157	0.1293	2.099	2.0281	4.2518
NM_021454	Cdc42ep5	CDC42 effect	58804	0.8043	4.8372	1.5608	1.3026

NM_021454	Cdc42ep5	CDC42 effect	58804	0.7875	4.8053	1.5608	1.2879
NM_021454	Cdc42ep5	CDC42 effect	58804	0.7875	4.8053	1.5608	1.2879
NM_021454	Cdc42ep5	CDC42 effect	58804	0.5464	3.4349	1.3128	0.5717
NM_021454	Cdc42ep5	CDC42 effect	58804	0.0899	2.2781	0.5901	0.1022
NM_021423	Shank3	SH3/ankyrin	58234	0.8258	3.1071	2.6008	2.7574
NM_021423	Shank3	SH3/ankyrin	58234	0.5924	2.7088	2.2598	2.4795
NM_021423	Shank3	SH3/ankyrin	58234	0.5924	2.7088	2.2598	2.4795
NM_021423	Shank3	SH3/ankyrin	58234	0.3752	2.3369	2.1426	2.326
NM_021423	Shank3	SH3/ankyrin	58234	0.4751	2.3093	1.5875	1.9051
NM_019679	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_019679	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_019679	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_019585	Espn	espin	56226	0.7432	2.9711	2.0284	2.5334
NM_019585	Espn	espin	56226	0.6052	2.5368	1.5532	2.0718
NM_019585	Espn	espin	56226	0.3787	2.4622	1.2686	2.0905
NM_019585	Espn	espin	56226	0.2555	2.1855	1.591	1.9287
NM_019585	Espn	espin	56226	0.3787	2.1388	2.1945	2.8703
NM_019585	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_019585	Espn	espin	56226	0.3787	2.1388	1.2686	2.0905
NM_019585	Espn	espin	56226	0.6319	2.101	2.1067	2.3214
NM_019443	Ndufa1	NADH dehyd	54405	0.941	2.4345	0.6932	0.6215
NM_019443	Ndufa1	NADH dehyd	54405	0.8189	2.1659	0.6932	0.4723
NM_019443	Ndufa1	NADH dehyd	54405	0.7316	2.1489	0.5899	0.3936
NM_018873	Srcin1	SRC kinase si	56013	0.5646	2.8053	3.4605	3.8246
NM_018873	Srcin1	SRC kinase si	56013	0.5646	2.8053	3.4605	5.0156
NM_018873	Srcin1	SRC kinase si	56013	0.9894	2.5457	1.0046	3.5028
NM_018873	Srcin1	SRC kinase si	56013	0.4539	2.3003	2.8527	4.3943
NM_018873	Srcin1	SRC kinase si	56013	0.4876	2.2897	2.8527	3.3424
NM_018873	Srcin1	SRC kinase si	56013	0.1995	2.1839	2.8085	4.3056
NM_018873	Srcin1	SRC kinase si	56013	0.7914	2.1085	1.7291	2.9186
NM_015821	Fbxl8	F-box and leu	50788	0.9202	3.4008	3.1915	4.5664
NM_015821	Fbxl8	F-box and leu	50788	0.7928	3.3939	2.6915	3.9646
NM_015821	Fbxl8	F-box and leu	50788	0.8792	3.0204	1.3797	1.7964
NM_015821	Fbxl8	F-box and leu	50788	0.2542	2.5157	1.2615	1.7964
NM_015821	Fbxl8	F-box and leu	50788	0.7813	2.5157	1.9275	3.4734
NM_015821	Fbxl8	F-box and leu	50788	0.7813	2.5157	1.9275	3.4734
NM_015821	Fbxl8	F-box and leu	50788	0.7813	2.5157	1.9275	3.4734
NM_015821	Fbxl8	F-box and leu	50788	0.8063	2.2876	1.9302	2.5555
NM_015821	Fbxl8	F-box and leu	50788	0.3112	2.2498	3.1915	4.5664
NM_015821	Fbxl8	F-box and leu	50788	0.3112	2.2498	3.1915	3.8119
NM_015821	Fbxl8	F-box and leu	50788	0.8792	2.1921	0.8114	1.1406
NM_015821	Fbxl8	F-box and leu	50788	0.148	2.1865	1.4603	2.5484
NM_015821	Fbxl8	F-box and leu	50788	0.148	2.1865	0.7198	1.4263
NM_015821	Fbxl8	F-box and leu	50788	0.6552	2.1865	1.4603	2.5484
NM_013866	Zfp385a	zinc finger pr	29813	0.9447	2.7296	3.3974	3.2858
NM_013866	Zfp385a	zinc finger pr	29813	0.9447	2.7296	3.3974	3.2858
NM_013866	Zfp385a	zinc finger pr	29813	0.9447	2.7296	3.3974	3.2858
NM_013866	Zfp385a	zinc finger pr	29813	0.6626	2.1426	2.7021	2.6084
NM_013613	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_013613	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_013613	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_013613	Nr4a2	nuclear recep	18227	0.3332	2.3488	2.1475	3.1607
NM_013613	Nr4a2	nuclear recep	18227	0.3332	2.3488	1.0415	1.8145

NM_013519	Foxc2	forkhead box	14234	0.8212	2.5116	2.9182	2.7752
NM_013519	Foxc2	forkhead box	14234	0.8212	2.5116	2.9182	2.7752
NM_013519	Foxc2	forkhead box	14234	0.8477	2.5116	2.9182	2.7752
NM_011532	Tbx1	T-box 1	21380	0.763	2.8079	3.4371	3.4014
NM_011532	Tbx1	T-box 1	21380	0.812	2.8079	3.4371	3.4014
NM_011532	Tbx1	T-box 1	21380	0.8654	2.6237	2.7698	2.7392
NM_011448	Sox9	SRY-box cont	20682	0.7308	3.5676	3.054	3.2056
NM_011448	Sox9	SRY-box cont	20682	0.807	2.8869	2.324	2.7002
NM_011448	Sox9	SRY-box cont	20682	0.2796	2.0957	1.632	2.193
NM_011379	Sipa1	signal-induce	20469	0.084	3.1234	2.2454	3.0236
NM_011379	Sipa1	signal-induce	20469	0.084	3.1234	2.2454	3.0236
NM_011379	Sipa1	signal-induce	20469	0.2509	3.1234	2.2454	3.0236
NM_011379	Sipa1	signal-induce	20469	0.4429	3.1234	2.2454	3.0236
NM_011379	Sipa1	signal-induce	20469	0.4429	3.1234	2.7382	3.2663
NM_011379	Sipa1	signal-induce	20469	0.0516	2.7658	1.8643	2.5445
NM_011379	Sipa1	signal-induce	20469	0.7158	2.7658	3.3873	3.9347
NM_011379	Sipa1	signal-induce	20469	0.0219	2.4074	1.4842	2.1989
NM_011379	Sipa1	signal-induce	20469	0.0186	2.0479	1.1062	1.8671
NM_011377	Sim2	single-minde	20465	0.9797	2.3784	3.4713	4.0021
NM_011377	Sim2	single-minde	20465	0.9797	2.3784	3.4713	4.0021
NM_011377	Sim2	single-minde	20465	0.7332	2.0652	3.0304	3.4992
NM_011355	Sfp1	SFFV proviral	20375	0.654	2.4843	0.589	1.3162
NM_011355	Sfp1	SFFV proviral	20375	0.4198	2.0728	0.3085	1.0558
NM_011355	Sfp1	SFFV proviral	20375	0.4198	2.0529	0.1156	1.0558
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.6048	1.5036
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.881
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.881
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.9113
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.881
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.881
NM_011341	Sdf4	stromal cell d	20318	0.9463	2.0766	1.136	0.881
NM_010906	Nfix	nuclear facto	18032	0.2575	2.6355	1.8199	0.8787
NM_010906	Nfix	nuclear facto	18032	0.6437	2.27	1.9618	1.385
NM_010906	Nfix	nuclear facto	18032	0.1182	2.205	1.4933	0.6032
NM_010906	Nfix	nuclear facto	18032	0.9325	2.1789	1.8669	1.7388
NM_010630	Kifc2	kinesin family	16581	0.8538	3.3041	2.4365	4.0329
NM_010630	Kifc2	kinesin family	16581	0.7008	2.8257	2.0732	3.4577
NM_010630	Kifc2	kinesin family	16581	0.977	2.3454	1.9016	2.8804
NM_010589	Jak3	Janus kinase	16453	0.5448	2.2208	2.4775	4.2882
NM_010589	Jak3	Janus kinase	16453	0.5448	2.2208	2.4775	4.2882
NM_010589	Jak3	Janus kinase	16453	0.8894	2.1322	1.1145	2.6401
NM_010468	Hoxd3	homeobox D	15434	0.8606	3.6657	3.6777	4.8516
NM_010468	Hoxd3	homeobox D	15434	0.6464	3.3571	3.4655	3.9183
NM_010468	Hoxd3	homeobox D	15434	0.6464	3.3571	3.37	3.9183
NM_010468	Hoxd3	homeobox D	15434	0.4136	2.8366	2.9317	3.4778
NM_010468	Hoxd3	homeobox D	15434	0.2089	2.3165	2.3982	3.0361
NM_010453	Hoxa5	homeobox A	15402	0.4843	4.2264	2.1586	4.2825
NM_010453	Hoxa5	homeobox A	15402	0.4843	4.0053	1.9907	3.1762
NM_010453	Hoxa5	homeobox A	15402	0.8551	3.7637	1.9907	3.1762
NM_010453	Hoxa5	homeobox A	15402	0.4843	3.6907	1.9907	3.1762
NM_010453	Hoxa5	homeobox A	15402	0.4843	3.5482	1.9907	2.5657
NM_010453	Hoxa5	homeobox A	15402	0.4843	3.5482	1.9907	2.5657
NM_010453	Hoxa5	homeobox A	15402	0.6761	2.6554	2.0283	2.4834

NM_010453	Hoxa5	homeobox A	15402	0.6761	2.6554	1.9197	2.0396
NM_010453	Hoxa5	homeobox A	15402	0.833	2.6554	3.1329	3.6812
NM_010453	Hoxa5	homeobox A	15402	0.9879	2.6554	3.1329	3.8202
NM_010453	Hoxa5	homeobox A	15402	0.4049	2.506	1.2401	2.8677
NM_010453	Hoxa5	homeobox A	15402	0.4049	2.506	1.2401	2.8677
NM_010453	Hoxa5	homeobox A	15402	0.4843	2.3724	1.2474	1.8285
NM_010453	Hoxa5	homeobox A	15402	0.4843	2.3724	1.2474	1.8285
NM_010453	Hoxa5	homeobox A	15402	0.772	2.3467	2.6402	3.2654
NM_010453	Hoxa5	homeobox A	15402	0.772	2.3467	2.6402	3.2654
NM_010215	Il4i1	interleukin 4	14204	0.9057	2.091	2.2905	2.4393
NM_010215	Il4i1	interleukin 4	14204	0.7321	2.0405	2.9764	2.8462
NM_010215	Il4i1	interleukin 4	14204	0.7321	2.0405	2.9764	2.8462
NM_009723	Atp2b2	ATPase, Ca++	11941	0.6472	3.4286	2.157	1.502
NM_009723	Atp2b2	ATPase, Ca++	11941	0.8589	3.1966	2.1614	1.6112
NM_009723	Atp2b2	ATPase, Ca++	11941	0.4799	2.8993	1.7871	1.217
NM_009723	Atp2b2	ATPase, Ca++	11941	0.6812	2.6594	1.7832	1.3175
NM_009723	Atp2b2	ATPase, Ca++	11941	0.3495	2.3703	1.4184	0.9336
NM_009614	Adam15	a disintegrin	11490	0.7625	2.6237	1.8626	2.6699
NM_009614	Adam15	a disintegrin	11490	0.7131	2.5964	1.5754	2.2756
NM_009614	Adam15	a disintegrin	11490	0.5582	2.1514	1.3184	1.8798
NM_009600	Macf1	microtubule-	11426	0.8933	2.6271	3.7471	2.7239
NM_009600	Macf1	microtubule-	11426	0.8933	2.6271	3.7471	2.7239
NM_009600	Macf1	microtubule-	11426	0.9815	2.6271	3.7471	2.7239
NM_009600	Macf1	microtubule-	11426	0.7217	2.3213	3.1787	2.2822
NM_009600	Macf1	microtubule-	11426	0.7817	2.1985	2.2617	1.4022
NM_009569	Zfpm1	zinc finger pr	22761	0.7582	3.8432	3.8412	4.3212
NM_009569	Zfpm1	zinc finger pr	22761	0.2066	2.6192	3.7993	4.3212
NM_009569	Zfpm1	zinc finger pr	22761	0.2066	2.6192	3.7993	4.3212
NM_009569	Zfpm1	zinc finger pr	22761	0.1345	2.0701	3.2244	3.8386
NM_008782	Pax5	paired box ge	18507	0.6691	2.1272	3.1598	2.9657
NM_008782	Pax5	paired box ge	18507	0.6691	2.1272	2.973	2.9657
NM_008782	Pax5	paired box ge	18507	0.6691	2.0382	3.1598	2.9657
NM_008634	Mtap1b	microtubule-	17755	0.7513	2.2042	1.9023	1.5681
NM_008634	Mtap1b	microtubule-	17755	0.8904	2.2025	2.3534	1.9626
NM_008634	Mtap1b	microtubule-	17755	0.8904	2.2025	2.3534	1.9626
NM_008634	Mtap1b	microtubule-	17755	0.8904	2.2025	2.0351	1.9626
NM_008269	Hoxb6	homeobox B	15414	0.5298	2.8865	1.8603	3.0518
NM_008269	Hoxb6	homeobox B	15414	0.4443	2.5536	1.6346	2.5692
NM_008269	Hoxb6	homeobox B	15414	0.5168	2.3503	1.4084	2.0872
NM_008269	Hoxb6	homeobox B	15414	0.0008	2.109	1.3361	1.928
NM_008269	Hoxb6	homeobox B	15414	0.0008	2.109	1.2356	1.928
NM_008269	Hoxb6	homeobox B	15414	0.0008	2.109	1.3712	1.928
NM_008269	Hoxb6	homeobox B	15414	0.0233	2.109	1.1577	1.4778
NM_008269	Hoxb6	homeobox B	15414	0.1341	2.109	1.1577	1.4778
NM_008202	Slc39a7	solute carrier	14977	0.7179	2.5332	1.9223	1.2215
NM_008202	Slc39a7	solute carrier	14977	0.7179	2.5332	1.9223	1.2215
NM_008202	Slc39a7	solute carrier	14977	0.7179	2.2393	1.1082	1.2215
NM_008172	Grin2d	glutamate re	14814	0.8905	2.4052	4.5815	3.7992
NM_008172	Grin2d	glutamate re	14814	0.8905	2.4052	4.5815	3.7992
NM_008172	Grin2d	glutamate re	14814	0.9302	2.4052	4.5815	3.6879
NM_008172	Grin2d	glutamate re	14814	0.8645	2.3113	4.5815	3.323
NM_007964	Evi5	ecotropic vira	14020	0.979	2.5973	2.9503	2.7945
NM_007964	Evi5	ecotropic vira	14020	0.7095	2.142	2.4884	2.3352

NM_007964	Evi5	ecotropic vira	14020	0.5081	2.0135	2.4797	1.9832
NM_007964	Evi5	ecotropic vira	14020	0.5081	2.0135	2.1342	1.9832
NM_007964	Evi5	ecotropic vira	14020	0.5081	2.0135	2.1342	1.9832
NM_007463	Spep	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_007463	Spep	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_007463	Spep	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_007463	Spep	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_007463	Spep	SPEG comple	11790	0.8943	2.328	2.9441	2.3463
NM_007463	Spep	SPEG comple	11790	0.6602	2.2063	2.272	1.8579
NM_007385	Apoc4	apolipoprote	11425	0.8791	2.5315	1.0294	1.4153
NM_007385	Apoc4	apolipoprote	11425	0.8791	2.5315	1.0226	1.0632
NM_007385	Apoc4	apolipoprote	11425	0.6036	2.114	0.728	1.0504
NM_001159	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_001159	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_001159	Cas21	castor homol	69743	0.3581	3.0105	1.9122	2.7351
NM_001159	Cas21	castor homol	69743	0.2752	2.7495	2.3341	3.583
NM_001159	Cas21	castor homol	69743	0.2752	2.571	1.6184	2.2192
NM_001159	Cas21	castor homol	69743	0.2262	2.3122	1.9294	2.9864
NM_001159	Cas21	castor homol	69743	0.1953	2.1299	1.3236	1.6194
NM_001159	Cas21	castor homol	69743	0.9755	2.0789	2.1284	3.8719
NM_001159	Cas21	castor homol	69743	0.9755	2.0789	2.1284	3.8719
NM_001143	Pde2a	phosphodies	207728	0.8154	2.779	1.1772	0.5184
NM_001143	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NM_001143	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NM_001142	Ttll3	tubulin tyros	101100	0.8148	3.387	2.0652	2.5939
NM_001142	Ttll3	tubulin tyros	101100	0.6483	2.956	1.7886	1.9654
NM_001142	Ttll3	tubulin tyros	101100	0.3917	2.5972	1.3914	1.7849
NM_001142	Ttll3	tubulin tyros	101100	0.5232	2.5237	1.5113	1.4849
NM_001142	Ttll3	tubulin tyros	101100	0.3989	2.0899	1.2329	1.2106
NM_001142	Kctd1	potassium ch	106931	0.0001	2.5558	1.7734	3.1395
NM_001142	Kctd1	potassium ch	106931	0.0001	2.5558	1.7734	3.1395
NM_001142	Kctd1	potassium ch	106931	0	2.539	2.2829	5.2107
NM_001142	Kctd1	potassium ch	106931	0	2.2425	1.7838	4.6351
NM_001142	Kctd1	potassium ch	106931	0	2.2425	1.7838	4.6351
NM_001139	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_001139	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_001139	Nr4a2	nuclear recep	18227	0.4266	2.7543	1.4058	2.3367
NM_001139	Nr4a2	nuclear recep	18227	0.3332	2.3488	2.1475	3.1607
NM_001139	Nr4a2	nuclear recep	18227	0.3332	2.3488	1.0415	1.8145
NM_001127	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_001127	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_001127	Snx10	sorting nexin	71982	0.7116	2.1385	0.6273	0.1272
NM_001127	Snx10	sorting nexin	71982	0.3922	2.0955	0.4354	0.0658
NM_001113	Adamts15	ADAMTS-like	66548	0.8815	3.7051	4.0031	4.5357
NM_001113	Adamts15	ADAMTS-like	66548	0.8348	3.4007	3.5001	3.9704
NM_001113	Adamts15	ADAMTS-like	66548	0.5452	3.0341	4.0778	5.0996
NM_001113	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_001113	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_001113	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_001113	Adamts15	ADAMTS-like	66548	0.5452	3.0341	3.6269	4.2367
NM_001113	Adamts15	ADAMTS-like	66548	0.6844	2.9094	2.9956	3.4035
NM_001113	Adamts15	ADAMTS-like	66548	0.7764	2.5356	1.7941	5.6986
NM_001113	Adamts15	ADAMTS-like	66548	0.6642	2.4956	1.4755	5.1196

NM_0011135	Adamts15	ADAMTS-like	66548	0.5452	2.4512	2.4381	4.2367
NM_0011135	Adamts15	ADAMTS-like	66548	0.5452	2.4512	2.4381	4.2367
NM_0011135	Adamts15	ADAMTS-like	66548	0.5452	2.4512	1.6826	4.2367
NM_0011135	Adamts15	ADAMTS-like	66548	0.5452	2.4512	1.6826	4.2367
NM_0011135	Adamts15	ADAMTS-like	66548	0.7764	2.4512	1.6826	4.2367
NM_0011135	Adamts15	ADAMTS-like	66548	0.534	2.4163	2.4892	2.8345
NM_0011135	Adamts15	ADAMTS-like	66548	0.8919	2.3451	1.4005	3.643
NM_0011135	Adamts15	ADAMTS-like	66548	0.5521	2.0241	1.2678	4.486
NM_0011105	Ebf4	early B-cell fa	228598	0.7919	2.1575	3.8068	3.1256
NM_0011105	Ebf4	early B-cell fa	228598	0.7919	2.1575	3.8068	3.1256
NM_0011105	Ebf4	early B-cell fa	228598	0.7919	2.1575	3.8068	3.1256
NM_0011105	Zfp703	zinc finger pr	353310	0.5338	2.1365	1.46	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.2584	2.0482	1.46	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.2584	2.0482	1.46	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.2584	2.0482	0.9063	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.2584	2.0482	0.5116	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.3603	2.0482	0.5116	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.3603	2.0482	0.5116	1.2279
NM_0011105	Zfp703	zinc finger pr	353310	0.7413	2.0136	1.4815	2.0579
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5201	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5704	2.3611
NM_0011026	Phldb3	pleckstrin ho	232970	0.9658	2.3777	1.2712	1.2315
NM_0011026	Phldb3	pleckstrin ho	232970	0.9658	2.3777	1.2712	0.572
NM_0011026	Phldb3	pleckstrin ho	232970	0.7584	2.0805	1.1062	0.4397
NM_0011015	Zfp703	zinc finger pr	353310	0.5338	2.1365	1.46	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.2584	2.0482	1.46	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.2584	2.0482	1.46	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.2584	2.0482	0.9063	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.2584	2.0482	0.5116	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.3603	2.0482	0.5116	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.3603	2.0482	0.5116	1.2279
NM_0011015	Zfp703	zinc finger pr	353310	0.7413	2.0136	1.4815	2.0579
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_0010853	Speg	SPEG comple	11790	0.6602	2.2063	2.272	1.8579
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	2.7122	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8068	2.4987	3.0774	2.1442
NM_0010853	Speg	SPEG comple	11790	0.8943	2.328	2.9441	2.3463
NM_0010853	Speg	SPEG comple	11790	0.6602	2.2063	2.272	1.8579
NM_0010819	Nfix	nuclear facto	18032	0.2575	2.6355	1.8199	0.8787
NM_0010819	Nfix	nuclear facto	18032	0.6437	2.27	1.9618	1.385
NM_0010819	Nfix	nuclear facto	18032	0.1182	2.205	1.4933	0.6032
NM_0010819	Nfix	nuclear facto	18032	0.9325	2.1789	1.8669	1.7388
NM_0010813	Slc9a5	solute carrier	277973	0.6062	3.3479	1.9767	4.2754
NM_0010813	Slc9a5	solute carrier	277973	0.5123	2.9669	1.7389	3.7976
NM_0010813	Slc9a5	solute carrier	277973	0.6062	2.206	1.849	2.9837
NM_0010813	Slc9a5	solute carrier	277973	0.8788	2.206	1.849	3.1166

NM_0010812	Mn1	meningioma	433938	0.0001	2.6645	1.0926	4.0107
NM_0010812	Mn1	meningioma	433938	0.0207	2.6645	1.4118	4.0107
NM_0010812	Mn1	meningioma	433938	0.6154	2.5529	2.3538	3.5605
NM_0010812	Mn1	meningioma	433938	0.0001	2.5483	1.0926	4.0107
NM_0010812	Mn1	meningioma	433938	0	2.3549	0.9471	3.5605
NM_0010812	Mn1	meningioma	433938	0	2.3549	0.9471	3.5605
NM_0010812	ltpkb	inositol 1,4,5	320404	0.9901	4.1104	4.7009	4.7384
NM_0010812	ltpkb	inositol 1,4,5	320404	0.9901	4.1104	4.7009	4.7384
NM_0010812	ltpkb	inositol 1,4,5	320404	0.9901	4.1104	4.472	4.2272
NM_0010812	ltpkb	inositol 1,4,5	320404	0.9901	4.1104	3.5409	2.9428
NM_0010812	ltpkb	inositol 1,4,5	320404	0.8554	3.6933	3.1397	2.4738
NM_0010812	ltpkb	inositol 1,4,5	320404	0.7205	3.2265	2.7376	2.1054
NM_0010812	ltpkb	inositol 1,4,5	320404	0.3588	2.8441	3.3456	3.3776
NM_0010812	ltpkb	inositol 1,4,5	320404	0.3588	2.8441	3.3456	3.3776
NM_0010812	ltpkb	inositol 1,4,5	320404	0.5856	2.7583	2.3343	1.786
NM_0010812	ltpkb	inositol 1,4,5	320404	0.9929	2.2884	1.9296	1.4654
NM_0010777	Slc39a7	solute carrier	14977	0.7179	2.5332	1.9223	1.2215
NM_0010777	Slc39a7	solute carrier	14977	0.7179	2.5332	1.9223	1.2215
NM_0010777	Slc39a7	solute carrier	14977	0.7179	2.2393	1.1082	1.2215
NM_0010776	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_0010776	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_0010776	Fmn1	formin-like 1	57778	0.6075	2.1668	2.8521	3.1392
NM_0010426	Tbc1d17	TBC1 domain	233204	0.9057	2.091	2.2905	2.4393
NM_0010426	Tbc1d17	TBC1 domain	233204	0.7321	2.0405	2.9764	2.8462
NM_0010426	Tbc1d17	TBC1 domain	233204	0.7321	2.0405	2.9764	2.8462
NM_0010395	Evi5l	ecotropic vira	213027	0.3969	4.0844	3.6867	4.8244
NM_0010395	Evi5l	ecotropic vira	213027	0.3969	4.0844	3.6867	4.8244
NM_0010395	Evi5l	ecotropic vira	213027	0.3969	4.0844	3.6867	4.8244
NM_0010395	Evi5l	ecotropic vira	213027	0.3079	3.5024	3.1574	4.1441
NM_0010395	Evi5l	ecotropic vira	213027	0.3079	3.5024	3.1574	4.7168
NM_0010395	Evi5l	ecotropic vira	213027	0.2216	2.9182	3.4845	3.9461
NM_0010395	Evi5l	ecotropic vira	213027	0.2216	2.9182	2.6263	3.4614
NM_0010377	Adam15	a disintegrin	11490	0.7625	2.6237	1.8626	2.6699
NM_0010377	Adam15	a disintegrin	11490	0.7131	2.5964	1.5754	2.2756
NM_0010377	Adam15	a disintegrin	11490	0.5582	2.1514	1.3184	1.8798
NM_0010174	Kdm6b	KDM1 lysine	216850	0.3473	2.1578	1.9277	2.0515
NM_0010174	Kdm6b	KDM1 lysine	216850	0.5276	2.1578	1.9277	2.0515
NM_0010174	Kdm6b	KDM1 lysine	216850	0.979	2.0857	1.742	1.94
NM_0010174	Kdm6b	KDM1 lysine	216850	0.979	2.0857	1.742	1.94
NM_0010148	4930404N11	RIKEN cDNA	432479	0.7497	2.2911	2.1268	3.4068
NM_0010148	4930404N11	RIKEN cDNA	432479	0.9567	2.2698	2.4481	3.5318
NM_0010148	4930404N11	RIKEN cDNA	432479	0.9567	2.2698	2.4481	3.5318
NM_0010137	Tmem151b	transmembra	210573	0.7308	2.0214	2.0248	1.5807
NM_0010137	Tmem151b	transmembra	210573	0.7308	2.0214	2.0248	1.5807
NM_0010137	Tmem151b	transmembra	210573	0.7308	2.0214	2.0248	1.5807
NM_0010085	Pde2a	phosphodies	207728	0.8154	2.779	1.1772	0.5184
NM_0010085	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NM_0010085	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NR_027644	Vsig8	V-set and im	240916	0.9183	2.426	0.8005	1.4277
NR_027644	Vsig8	V-set and im	240916	0.8693	2.1362	0.8005	1.4277
NR_027644	Vsig8	V-set and im	240916	0.8693	2.1362	0.8005	1.4277
NR_027644	Vsig8	V-set and im	240916	0.8693	2.1362	0.8005	1.4277
NR_026574	Pde2a	phosphodies	207728	0.8154	2.779	1.1772	0.5184

NR_026574	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NR_026574	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NR_015349	Etohd2	ethanol decr	13996	0.6614	2.3066	3.12	3.2993
NR_015349	Etohd2	ethanol decr	13996	0.6614	2.3066	3.12	3.2993
NR_015349	Etohd2	ethanol decr	13996	0.6614	2.3066	2.5722	2.1657
NR_003623	Gm5069	glyceraldehy	277333	0.9901	4.1104	4.7009	4.7384
NR_003623	Gm5069	glyceraldehy	277333	0.9901	4.1104	4.7009	4.7384
NR_003623	Gm5069	glyceraldehy	277333	0.9901	4.1104	4.472	4.2272
NR_003623	Gm5069	glyceraldehy	277333	0.9901	4.1104	3.5409	2.9428
NR_003623	Gm5069	glyceraldehy	277333	0.8554	3.6933	3.1397	2.4738
NR_003623	Gm5069	glyceraldehy	277333	0.7205	3.2265	2.7376	2.1054
NR_003623	Gm5069	glyceraldehy	277333	0.3588	2.8441	3.3456	3.3776
NR_003623	Gm5069	glyceraldehy	277333	0.3588	2.8441	3.3456	3.3776
NR_003623	Gm5069	glyceraldehy	277333	0.5856	2.7583	2.3343	1.786
NR_003623	Gm5069	glyceraldehy	277333	0.9929	2.2884	1.9296	1.4654
NM_212447	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0281	0.4915
NM_212447	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.5788	0.8214
NM_212447	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_212447	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_212447	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_212447	Marveld3	MARVEL (me	73608	0.5533	2.0419	1.3825	0.7045
NM_207687	Espn	espin	56226	0.6723	2.1559	1.6624	2.1822
NM_207687	Espn	espin	56226	0.4037	2.11	1.1595	1.2588
NM_207687	Espn	espin	56226	0.4833	2.11	1.1595	1.9538
NM_207624	Ace	angiotensin I	11421	0.7708	2.1602	2.819	2.2501
NM_207624	Ace	angiotensin I	11421	0.7708	2.1602	2.6525	2.2501
NM_207624	Ace	angiotensin I	11421	0.9963	2.1602	4.0806	3.2659
NM_199465	Nexn	nexilin	68810	0.3607	2.1468	1.1126	1.768
NM_199465	Nexn	nexilin	68810	0.8203	2.1468	1.0394	1.4161
NM_199465	Nexn	nexilin	68810	0.8203	2.1468	1.0394	1.4161
NM_198103	Exoc8	exocyst comp	102058	0.8663	3.3153	5.0159	4.5036
NM_198103	Exoc8	exocyst comp	102058	0.8663	2.7371	5.0159	4.5036
NM_198103	Exoc8	exocyst comp	102058	0.8378	2.5452	3.5432	2.4198
NM_198100	Tbkbp1	TBK1 binding	73174	0.8373	2.4731	0.8105	2.513
NM_198100	Tbkbp1	TBK1 binding	73174	0.681	2.34	3.1964	2.173
NM_198100	Tbkbp1	TBK1 binding	73174	0.8984	2.0981	4.5259	2.8951
NM_198100	Tbkbp1	TBK1 binding	73174	0.8984	2.0981	3.1964	2.8388
NM_198100	Tbkbp1	TBK1 binding	73174	0.8984	2.0981	3.1964	2.8388
NM_198010	Ankrd17	ankyrin repe	81702	0.629	2.6391	4.7712	2.781
NM_198010	Ankrd17	ankyrin repe	81702	0.629	2.6391	3.782	2.781
NM_198010	Ankrd17	ankyrin repe	81702	0.671	2.6391	4.7712	2.781
NM_194057	Ffar1	free fatty aci	233081	0.5435	2.1364	0.714	0.7252
NM_194057	Ffar1	free fatty aci	233081	0.5435	2.1364	0.714	0.7252
NM_194057	Ffar1	free fatty aci	233081	0.5435	2.1364	0.714	0.7252
NM_194057	Ffar1	free fatty aci	233081	0.5435	2.1364	0.714	0.7252
NM_183261	Nr2f2	nuclear rece	11819	0.2643	3.1989	2.4618	2.9428
NM_183261	Nr2f2	nuclear rece	11819	0.019	2.0827	1.482	1.8722
NM_183261	Nr2f2	nuclear rece	11819	0.5697	2.0827	1.482	1.906
NM_182841	Tmem150c	transmembra	231503	0.6479	2.7616	3.6022	3.9077
NM_182841	Tmem150c	transmembra	231503	0.7523	2.7616	2.4175	2.7928
NM_182841	Tmem150c	transmembra	231503	0.7523	2.7616	2.4175	2.7928
NM_182841	Tmem150c	transmembra	231503	0.8596	2.071	3.4675	2.5859

NM_182841	Tmem150c	transmembra	231503	0.8326	2.0144	1.4054	1.5037
NM_182841	Tmem150c	transmembra	231503	0.8326	2.0144	1.4054	1.5037
NM_181391	Chchd7	coiled-coil-he	66433	0.4681	2.2273	2.1393	1.9661
NM_181391	Chchd7	coiled-coil-he	66433	0.4681	2.2273	2.1393	1.9661
NM_181391	Chchd7	coiled-coil-he	66433	0.1263	2.0589	1.6746	1.5104
NM_181391	Chchd7	coiled-coil-he	66433	0.4887	2.0589	1.6746	1.5104
NM_178879	B3gnt9-ps	UDP-GlcNAc:	97440	0.7708	2.2493	1.1099	1.9609
NM_178879	B3gnt9-ps	UDP-GlcNAc:	97440	0.7708	2.2493	1.1099	1.9609
NM_178879	B3gnt9-ps	UDP-GlcNAc:	97440	0.9699	2.1145	0.5076	0.6652
NM_178750	Ss18l1	synovial sarc	269397	0.5822	2.0405	2.3663	1.7233
NM_178750	Ss18l1	synovial sarc	269397	0.5822	2.0405	2.3663	1.7233
NM_178750	Ss18l1	synovial sarc	269397	0.5822	2.0405	2.3663	1.7233
NM_178640	B3galnt2	UDP-GalNAc:	97884	0.6643	2.5078	1.4565	1.5833
NM_178640	B3galnt2	UDP-GalNAc:	97884	0.6292	2.4605	1.4565	1.5833
NM_178640	B3galnt2	UDP-GalNAc:	97884	0.4546	2.1476	1.7912	1.5833
NM_178596	Gjd3	gap junction	353155	0.7701	3.2019	1.8411	1.846
NM_178596	Gjd3	gap junction	353155	0.8712	3.2019	2.7575	2.5314
NM_178596	Gjd3	gap junction	353155	0.8712	3.2019	1.6613	2.5314
NM_178596	Gjd3	gap junction	353155	0.5244	2.6063	1.1957	1.1127
NM_178596	Gjd3	gap junction	353155	0.4378	2.4242	1.1252	1.8058
NM_178596	Gjd3	gap junction	353155	0.2492	2.1696	0.8076	1.4811
NM_178596	Gjd3	gap junction	353155	0.4615	2.0468	2.9875	2.4981
NM_178596	Gjd3	gap junction	353155	0.4615	2.0468	1.9088	1.6862
NM_178395	Zdhhc2	zinc finger, D	70546	0.9221	2.09	2.7625	2.6932
NM_178395	Zdhhc2	zinc finger, D	70546	0.9221	2.09	2.7625	2.6932
NM_178395	Zdhhc2	zinc finger, D	70546	0.9221	2.09	2.7625	2.6932
NM_178357	Klf11	Kruppel-like t	194655	0.9687	2.9477	2.6035	2.1155
NM_178357	Klf11	Kruppel-like t	194655	0.6769	2.809	1.6913	1.3566
NM_178357	Klf11	Kruppel-like t	194655	0.7554	2.4781	2.3002	1.8632
NM_178357	Klf11	Kruppel-like t	194655	0.7003	2.3313	1.3853	1.102
NM_178357	Klf11	Kruppel-like t	194655	0.6101	2.0345	1.7295	0.8932
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.9178	0.9604	2.0006
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.9178	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.9178	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.9178	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.9183	2.426	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.1362	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.1362	0.8005	1.4277
NM_177723	Vsig8	V-set and imi	240916	0.8693	2.1362	0.8005	1.4277
NM_177699	Fhod1	formin homo	234686	0.6062	3.3479	1.9767	4.2754
NM_177699	Fhod1	formin homo	234686	0.5123	2.9669	1.7389	3.7976
NM_177699	Fhod1	formin homo	234686	0.6062	2.206	1.849	2.9837
NM_177699	Fhod1	formin homo	234686	0.8788	2.206	1.849	3.1166
NM_177657	D630003M2	RIKEN cDNA	228846	0.2175	3.0688	1.0263	3.3459
NM_177657	D630003M2	RIKEN cDNA	228846	0.2175	2.9128	1.0263	2.8689
NM_177657	D630003M2	RIKEN cDNA	228846	0.1266	2.3642	0.7491	3.1174
NM_177657	D630003M2	RIKEN cDNA	228846	0.3946	2.0783	0.6103	2.6637
NM_177657	D630003M2	RIKEN cDNA	228846	0.3946	2.0783	0.6103	2.6637
NM_177407	Camk2a	calcium/calm	12322	0.9447	2.3562	1.8756	2.3803
NM_177407	Camk2a	calcium/calm	12322	0.9447	2.3562	1.8756	2.3803
NM_177407	Camk2a	calcium/calm	12322	0.5571	2.1229	1.1815	1.2853
NM_177407	Camk2a	calcium/calm	12322	0.5571	2.1229	1.1815	1.2853
NM_177387	Ust	uronyl-2-sulf	338362	0.9543	3.04	2.3628	2.489

NM_177387	Ust	uronyl-2-sulf	338362	0.3342	2.6595	1.4026	1.5038
NM_177387	Ust	uronyl-2-sulf	338362	0.2743	2.4249	1.0803	1.2771
NM_177387	Ust	uronyl-2-sulf	338362	0.2743	2.4249	1.0803	1.4385
NM_177387	Ust	uronyl-2-sulf	338362	0.2196	2.1402	0.9361	1.1123
NM_177387	Ust	uronyl-2-sulf	338362	0.9655	2.0636	1.1617	0.7537
NM_177387	Ust	uronyl-2-sulf	338362	0.9655	2.0636	1.1617	0.7537
NM_177260	Tmem154	transmembr	320782	0.2926	2.175	2.1538	3.9692
NM_177260	Tmem154	transmembr	320782	0.2926	2.175	2.1538	3.9692
NM_177260	Tmem154	transmembr	320782	0.2926	2.175	2.1538	4.7032
NM_177260	Tmem154	transmembr	320782	0.6338	2.0037	2.1538	4.2463
NM_177242	Pptc7	PTC7 protein	320717	0.5766	2.1511	4.1926	3.0834
NM_177242	Pptc7	PTC7 protein	320717	0.5766	2.1511	4.1926	3.0834
NM_177242	Pptc7	PTC7 protein	320717	0.5766	2.0218	2.9136	1.9875
NM_177208	Dopey1	dopey family	320615	0.9615	2.0383	1.8811	1.4664
NM_177208	Dopey1	dopey family	320615	0.9615	2.0383	1.8811	1.4664
NM_177208	Dopey1	dopey family	320615	0.9615	2.0383	1.8811	1.4664
NM_177208	Dopey1	dopey family	320615	0.9615	2.0383	1.8811	1.4664
NM_176860	Ubash3b	ubiquitin ass	72828	0.8719	2.8174	3.796	4.9267
NM_176860	Ubash3b	ubiquitin ass	72828	0.8719	2.8174	4.5849	4.9267
NM_176860	Ubash3b	ubiquitin ass	72828	0.8719	2.8174	3.6846	3.567
NM_176829	4931440F15	RIKEN cDNA	216622	0.8563	2.4983	0.7947	1.223
NM_176829	4931440F15	RIKEN cDNA	216622	0.8563	2.4983	0.7947	1.223
NM_176829	4931440F15	RIKEN cDNA	216622	0.8595	2.1976	0.5653	0.8247
NM_175535	Arhgap20	Rho GTPase a	244867	0.8351	2.6161	3.9281	3.4519
NM_175535	Arhgap20	Rho GTPase a	244867	0.8351	2.5485	3.0892	2.036
NM_175535	Arhgap20	Rho GTPase a	244867	0.8351	2.2743	3.9281	3.4519
NM_175529	Leng9	leukocyte rec	243813	0.8043	4.8372	1.5608	1.3026
NM_175529	Leng9	leukocyte rec	243813	0.7875	4.8053	1.5608	1.2879
NM_175529	Leng9	leukocyte rec	243813	0.7875	4.8053	1.5608	1.2879
NM_175529	Leng9	leukocyte rec	243813	0.5464	3.4349	1.3128	0.5717
NM_175529	Leng9	leukocyte rec	243813	0.0899	2.2781	0.5901	0.1022
NM_175381	2700081O15	RIKEN cDNA	108899	0.558	2.7108	2.8701	2.7103
NM_175381	2700081O15	RIKEN cDNA	108899	0.8856	2.1641	1.8128	2.5877
NM_175381	2700081O15	RIKEN cDNA	108899	0.8856	2.1641	0.9692	1.5834
NM_175381	2700081O15	RIKEN cDNA	108899	0.8856	2.1641	0.5467	1.5741
NM_175332	E130012A19	RIKEN cDNA	103551	0.7054	2.9272	3.6588	3.2412
NM_175332	E130012A19	RIKEN cDNA	103551	0.6135	2.0112	3.0411	2.4577
NM_175332	E130012A19	RIKEN cDNA	103551	0.6411	2.0112	3.4795	2.9515
NM_175332	E130012A19	RIKEN cDNA	103551	0.6967	2.0112	3.4795	3.0259
NM_175332	E130012A19	RIKEN cDNA	103551	0.7054	2.0112	3.6588	2.9515
NM_175332	E130012A19	RIKEN cDNA	103551	0.7054	2.0112	2.9808	2.5685
NM_175332	E130012A19	RIKEN cDNA	103551	0.745	2.0112	3.4795	3.0259
NM_175232				0.9012	3.3681	4.2361	3.6946
NM_175232				0.9012	2.7764	3.2424	2.8142
NM_175232				0.9012	2.7764	2.9504	2.4946
NM_175232				0.2984	2.2227	2.9504	2.4946
NM_175184	Fam125b	family with s	72543	0.9178	2.953	3.3064	2.8896
NM_175184	Fam125b	family with s	72543	0.7116	2.6133	2.6577	2.4272
NM_175184	Fam125b	family with s	72543	0.9178	2.5522	3.3064	3.1708
NM_175184	Fam125b	family with s	72543	0.8354	2.2727	3.2967	2.8142
NM_175007	Amph	amphiphysin	218038	0.6293	2.1715	3.269	3.3149
NM_175007	Amph	amphiphysin	218038	0.7147	2.1715	3.269	3.3149
NM_175007	Amph	amphiphysin	218038	0.7147	2.1715	3.269	3.3149

NM_175007	Amph	amphiphysin	218038	0.7147	2.1715	2.8668	2.8099
NM_173010	Ube3a	ubiquitin pro	22215	0.898	2.6647	2.556	1.9355
NM_173010	Ube3a	ubiquitin pro	22215	0.8248	2.169	2.0758	1.545
NM_173010	Ube3a	ubiquitin pro	22215	0.808	2.0644	3.0367	2.3271
NM_172839	Ccnj	cyclin J	240665	0.7282	3.1326	2.975	2.0161
NM_172839	Ccnj	cyclin J	240665	0.7282	3.1326	2.975	2.0161
NM_172839	Ccnj	cyclin J	240665	0.1934	2.0666	2.4099	1.1278
NM_172839	Ccnj	cyclin J	240665	0.7282	2.028	2.975	2.0161
NM_172839	Ccnj	cyclin J	240665	0.7365	2.028	2.975	2.5156
NM_172585	Larp4b	La ribonucleo	217980	0.8878	2.3801	3.9238	2.9344
NM_172585	Larp4b	La ribonucleo	217980	0.8878	2.3801	3.1785	3.1403
NM_172585	Larp4b	La ribonucleo	217980	0.8878	2.3801	3.1326	3.1403
NM_172585	Larp4b	La ribonucleo	217980	0.9827	2.3801	3.6676	2.561
NM_172585	Larp4b	La ribonucleo	217980	0.9827	2.3801	3.6676	2.561
NM_172468	Snx30	sorting nexin	209131	0.6673	2.7367	2.8355	2.4259
NM_172468	Snx30	sorting nexin	209131	0.3624	2.1704	2.3799	2.0218
NM_172468	Snx30	sorting nexin	209131	0.6673	2.1024	2.4394	2.1059
NM_172468	Snx30	sorting nexin	209131	0.6673	2.1024	1.7909	2.1059
NM_172298	Tshz3	teashirt zinc	243931	0.297	2.3165	2.9371	2.4354
NM_172298	Tshz3	teashirt zinc	243931	0.5584	2.1039	2.7694	2.1891
NM_172298	Tshz3	teashirt zinc	243931	0.5584	2.1039	2.7694	2.1891
NM_172298	Tshz3	teashirt zinc	243931	0.5584	2.1039	2.7694	2.1891
NM_172298	Tshz3	teashirt zinc	243931	0.5584	2.1039	2.7694	2.1891
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	3.072	2.253	3.6049
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	2.9834	2.253	3.6049
NM_170671	Mycbpap	MYCBP assoc	104601	0.4258	2.7401	1.5536	2.8018
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	2.4225	1.2618	1.5771
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	2.4225	1.2618	1.5771
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	2.4225	1.2618	1.5771
NM_170671	Mycbpap	MYCBP assoc	104601	0.294	2.3483	1.2618	2.3504
NM_170593	Disp2	dispatched h	214240	0.7948	2.0731	1.3521	2.3575
NM_170593	Disp2	dispatched h	214240	0.9224	2.0365	1.1781	1.7486
NM_170593	Disp2	dispatched h	214240	0.9224	2.0365	1.1781	1.5731
NM_170593	Disp2	dispatched h	214240	0.9224	2.0365	1.1781	1.7486
NM_153778	Atoh8	atonal homo	71093	0.7772	2.3574	0.7013	0.9629
NM_153778	Atoh8	atonal homo	71093	0.7772	2.3574	0.7013	0.9629
NM_153778	Atoh8	atonal homo	71093	0.2955	2.3507	0.7013	0.7491
NM_153778	Atoh8	atonal homo	71093	0.2955	2.3454	1.3707	0.7491
NM_153778	Atoh8	atonal homo	71093	0.2955	2.3454	1.3707	0.7491
NM_153778	Atoh8	atonal homo	71093	0.2955	2.246	1.3707	0.7491
NM_153503	Rnf113a1	ring finger pr	69942	0.941	2.4345	0.6932	0.6215
NM_153503	Rnf113a1	ring finger pr	69942	0.8189	2.1659	0.6932	0.4723
NM_153503	Rnf113a1	ring finger pr	69942	0.7316	2.1489	0.5899	0.3936
NM_153419	Grwd1	glutamate-ric	101612	0.8905	2.4052	4.5815	3.7992
NM_153419	Grwd1	glutamate-ric	101612	0.8905	2.4052	4.5815	3.7992
NM_153419	Grwd1	glutamate-ric	101612	0.9302	2.4052	4.5815	3.6879
NM_153419	Grwd1	glutamate-ric	101612	0.8645	2.3113	4.5815	3.323
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.6594	2.1555	2.9297
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.6594	2.1555	2.9297
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.6594	2.1555	2.9297
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.6594	2.1555	2.9297
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.2472	1.2377	2.9297
NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.2472	1.2377	2.9297

NM_153287	Csrnp1	cysteine-seri	215418	0.8686	2.2472	1.4085	3.3864
NM_153118	Fnbp1l	formin bindir	214459	0.8216	2.2226	2.8735	2.7637
NM_153118	Fnbp1l	formin bindir	214459	0.8216	2.2226	2.8735	2.4936
NM_153118	Fnbp1l	formin bindir	214459	0.86	2.2226	2.8735	2.6202
NM_153062	Slc37a1	solute carrier	224674	0.863	3.1744	2.4669	2.4549
NM_153062	Slc37a1	solute carrier	224674	0.8724	2.1118	1.7896	1.8565
NM_153062	Slc37a1	solute carrier	224674	0.6787	2.0625	1.4861	1.8059
NM_152808	Slc44a2	solute carrier	68682	0.6558	2.0943	1.5438	1.6519
NM_152808	Slc44a2	solute carrier	68682	0.6558	2.0943	1.5438	1.6519
NM_152808	Slc44a2	solute carrier	68682	0.6558	2.0943	1.5438	1.6519
NM_148933	Slco4a1	solute carrier	108115	0.9358	2.3543	0.8367	0.7181
NM_148933	Slco4a1	solute carrier	108115	0.9358	2.3543	0.8367	0.7181
NM_148933	Slco4a1	solute carrier	108115	0.7914	2.044	0.704	0.5996
NM_148933	Slco4a1	solute carrier	108115	0.9111	2.0354	0.9327	0.548
NM_146162	Tmem119	transmembra	231633	0.6238	2.1198	1.0985	1.0238
NM_146162	Tmem119	transmembra	231633	0.8952	2.1198	1.284	1.7031
NM_146162	Tmem119	transmembra	231633	0.8952	2.1198	1.284	1.7031
NM_146144	Usp1	ubiquitin spe	230484	0.9998	2.4755	2.5354	1.7459
NM_146144	Usp1	ubiquitin spe	230484	0.7995	2.3891	2.4554	1.1056
NM_146144	Usp1	ubiquitin spe	230484	0.798	2.0609	2.1439	1.5734
NM_145533	Smox	spermine oxi	228608	0.9124	2.7919	3.231	2.2516
NM_145533	Smox	spermine oxi	228608	0.8345	2.6874	3.0808	1.961
NM_145533	Smox	spermine oxi	228608	0.6605	2.2284	2.5614	1.6136
NM_145478	Pim3	proviral integ	223775	0.844	2.6129	3.7019	3.0691
NM_145478	Pim3	proviral integ	223775	0.844	2.6129	3.7019	3.0691
NM_145478	Pim3	proviral integ	223775	0.844	2.4406	3.7019	3.0691
NM_145478	Pim3	proviral integ	223775	0.844	2.4406	3.7019	3.0691
NM_145478	Pim3	proviral integ	223775	0.6311	2.0648	2.9971	2.4545
NM_145478	Pim3	proviral integ	223775	0.715	2.0648	2.9971	2.4545
NM_145456	Zswim6	zinc finger, S	67263	0.5924	3.5289	6.0257	4.3622
NM_145456	Zswim6	zinc finger, S	67263	0.5924	3.5289	6.4148	4.3622
NM_145456	Zswim6	zinc finger, S	67263	0.8674	3.2914	4.9503	3.9489
NM_145456	Zswim6	zinc finger, S	67263	0.8674	3.2914	4.9503	3.9489
NM_145456	Zswim6	zinc finger, S	67263	0.3974	2.6407	4.9503	3.5209
NM_145456	Zswim6	zinc finger, S	67263	0.3974	2.6407	4.9503	3.5209
NM_145456	Zswim6	zinc finger, S	67263	0.3272	2.5244	4.3961	2.9802
NM_145456	Zswim6	zinc finger, S	67263	0.3272	2.2879	4.7322	2.9802
NM_145456	Zswim6	zinc finger, S	67263	0.3542	2.2879	4.7322	2.9802
NM_145456	Zswim6	zinc finger, S	67263	0.8986	2.2245	2.8861	1.9501
NM_145417	Rnpep	arginyl aminc	215615	0.9377	2.702	3.0556	2.6839
NM_145417	Rnpep	arginyl aminc	215615	0.9219	2.2202	1.9622	1.588
NM_145417	Rnpep	arginyl aminc	215615	0.8084	2.1407	2.6614	2.2473
NM_144939	Frs3	fibroblast grc	107971	0.3528	2.6369	0.8094	3.4245
NM_144939	Frs3	fibroblast grc	107971	0.5921	2.6369	1.138	3.4245
NM_144939	Frs3	fibroblast grc	107971	0.7906	2.6369	1.138	3.4245
NM_144857	BC011248	cDNA sequer	224823	0.6798	2.8268	1.2088	1.5992
NM_144857	BC011248	cDNA sequer	224823	0.6798	2.1177	2.0916	2.6072
NM_144857	BC011248	cDNA sequer	224823	0.6798	2.1177	1.2658	2.3667
NM_144857	BC011248	cDNA sequer	224823	0.6798	2.1177	1.2658	2.3667
NM_144847	Nrbp2	nuclear receg	223649	0.4612	2.4143	1.8869	3.3023
NM_144847	Nrbp2	nuclear receg	223649	0.4612	2.4143	1.8869	3.353
NM_144847	Nrbp2	nuclear receg	223649	0.4612	2.3513	1.8869	2.9732
NM_144847	Nrbp2	nuclear receg	223649	0.7259	2.0066	1.4719	1.7225

NM_144531	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5201	2.0417
NM_144531	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_144531	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_144531	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5704	2.3611
NM_138748	Ppp2r4	protein phos	110854	0.951	2.5576	2.7162	1.8007
NM_138748	Ppp2r4	protein phos	110854	0.951	2.5576	2.7162	1.8007
NM_138748	Ppp2r4	protein phos	110854	0.951	2.5576	2.7162	1.8007
NM_138649	Syt17	synaptotagm	110058	0.965	2.6621	0.8464	0.7251
NM_138649	Syt17	synaptotagm	110058	0.6753	2.3874	0.8464	0.7251
NM_138649	Syt17	synaptotagm	110058	0.6746	2.3527	0.5767	0.6184
NM_138649	Syt17	synaptotagm	110058	0.574	2.1067	0.5767	0.6184
NM_134448	Dst	dystonin	13518	0.9563	2.5133	1.3702	2.1345
NM_134448	Dst	dystonin	13518	0.8864	2.383	1.4453	2.2834
NM_134448	Dst	dystonin	13518	0.8844	2.2785	1.4298	1.7379
NM_134448	Dst	dystonin	13518	0.4386	2.2749	2.6281	1.9969
NM_134448	Dst	dystonin	13518	0.5608	2.1574	1.1771	1.8865
NM_134448	Dst	dystonin	13518	0.6828	2.0092	1.5913	2.4568
NM_133923	Ttll3	tubulin tyros	101100	0.8148	3.387	2.0652	2.5939
NM_133923	Ttll3	tubulin tyros	101100	0.6483	2.956	1.7886	1.9654
NM_133923	Ttll3	tubulin tyros	101100	0.3917	2.5972	1.3914	1.7849
NM_133923	Ttll3	tubulin tyros	101100	0.5232	2.5237	1.5113	1.4849
NM_133923	Ttll3	tubulin tyros	101100	0.3989	2.0899	1.2329	1.2106
NM_133833	Dst	dystonin	13518	0.9563	2.5133	1.3702	2.1345
NM_133833	Dst	dystonin	13518	0.8864	2.383	1.4453	2.2834
NM_133833	Dst	dystonin	13518	0.8844	2.2785	1.4298	1.7379
NM_133833	Dst	dystonin	13518	0.4386	2.2749	2.6281	1.9969
NM_133833	Dst	dystonin	13518	0.5608	2.1574	1.1771	1.8865
NM_133833	Dst	dystonin	13518	0.6828	2.0092	1.5913	2.4568
NM_133828	Creb1	cAMP respon	12912	0.7853	2.7177	4.4193	3.419
NM_133828	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_133828	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_133828	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_133828	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_133789	Strn4	striatin, calm	97387	0.4253	3.4643	3.4962	5.5486
NM_133789	Strn4	striatin, calm	97387	0.7744	3.0711	2.9586	5.1886
NM_133789	Strn4	striatin, calm	97387	0.6369	2.2817	1.9551	4.0417
NM_133678	Sac3d1	SAC3 domain	66406	0.7149	3.0939	3.2351	2.8364
NM_133678	Sac3d1	SAC3 domain	66406	0.6223	2.6433	2.566	2.3409
NM_133678	Sac3d1	SAC3 domain	66406	0.2952	2.2996	2.5983	2.2161
NM_133501	Ntng2	netrin G2	171171	0.3327	2.5436	1.3841	2.7006
NM_133501	Ntng2	netrin G2	171171	0.4708	2.5436	1.3841	2.9506
NM_133501	Ntng2	netrin G2	171171	0.6751	2.3376	1.3625	2.5864
NM_133500	Ntng2	netrin G2	171171	0.3327	2.5436	1.3841	2.7006
NM_133500	Ntng2	netrin G2	171171	0.4708	2.5436	1.3841	2.9506
NM_133500	Ntng2	netrin G2	171171	0.6751	2.3376	1.3625	2.5864
NM_133364	Prima1	proline rich n	170952	0.8737	2.5865	2.3352	3.4551
NM_133364	Prima1	proline rich n	170952	0.9264	2.4611	2.5227	3.259
NM_133364	Prima1	proline rich n	170952	0.8751	2.2897	2.0133	3.2645
NM_130893	Scrt1	scratch homc	170729	0.7407	3.1767	2.6749	3.4453
NM_130893	Scrt1	scratch homc	170729	0.7407	3.1767	2.6749	3.4453
NM_130893	Scrt1	scratch homc	170729	0.7407	3.1767	2.6749	3.4453
NM_130893	Scrt1	scratch homc	170729	0.7407	3.1767	3.0758	3.4453
NM_130893	Scrt1	scratch homc	170729	0.7407	2.0644	3.0374	2.841

NM_130888	Nxf7	nuclear RNA	170722	0.7807	2.4389	0.1504	0.4275
NM_130888	Nxf7	nuclear RNA	170722	0.7807	2.4389	0.1504	0.4275
NM_130888	Nxf7	nuclear RNA	170722	0.668	2.1528	0.0635	0.3298
NM_080558	Ssfa2	sperm specif	70599	0.8069	3.5762	3.2861	2.3204
NM_080558	Ssfa2	sperm specif	70599	0.7201	2.9838	3.2861	2.2024
NM_080558	Ssfa2	sperm specif	70599	0.237	2.3976	2.1548	1.4006
NM_080556	Tm9sf2	transmembra	68059	0.5546	2.8539	3.4346	2.6433
NM_080556	Tm9sf2	transmembra	68059	0.5546	2.8539	3.0991	2.6433
NM_080556	Tm9sf2	transmembra	68059	0.6328	2.531	2.7676	2.4407
NM_080556	Tm9sf2	transmembra	68059	0.3666	2.0545	2.1226	1.8382
NM_080468	Rxfp2	relaxin/insuli	140498	0.8304	2.9738	2.0807	3.1079
NM_080468	Rxfp2	relaxin/insuli	140498	0.8304	2.9738	2.0807	3.1079
NM_080468	Rxfp2	relaxin/insuli	140498	0.8304	2.9738	1.2698	2.0238
NM_080468	Rxfp2	relaxin/insuli	140498	0.4715	2.176	1.2698	1.6701
NM_054102	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792
NM_054102	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792
NM_054102	Ivns1abp	influenza viru	117198	0.6042	2.2825	4.5072	3.8058
NM_054056	Pawr	PRKC, apopto	114774	0.8604	2.5962	4.5596	2.7794
NM_054056	Pawr	PRKC, apopto	114774	0.8604	2.5962	3.7022	2.7794
NM_054056	Pawr	PRKC, apopto	114774	0.8604	2.5962	3.7022	2.7794
NM_054056	Pawr	PRKC, apopto	114774	0.7954	2.4117	3.7022	2.7794
NM_053155	Clmn	calmin	94040	0.186	2.8185	2.3427	2.2764
NM_053155	Clmn	calmin	94040	0.186	2.8185	2.3427	1.8748
NM_053155	Clmn	calmin	94040	0.186	2.8185	2.3081	2.1484
NM_053155	Clmn	calmin	94040	0.186	2.8185	2.3081	1.8898
NM_053103	Entpd7	ectonucleosi	93685	0.6866	2.8591	0.5984	0.3256
NM_053103	Entpd7	ectonucleosi	93685	0.4414	2.2545	0.5984	0.3256
NM_053103	Entpd7	ectonucleosi	93685	0.4414	2.2545	0.5984	0.3256
NM_053103	Entpd7	ectonucleosi	93685	0.4414	2.2545	0.5984	0.3256
NM_053103	Entpd7	ectonucleosi	93685	0.4414	2.2545	0.5984	0.3256
NM_053103	Entpd7	ectonucleosi	93685	0.4414	2.2545	0.5984	0.3256
NM_053073	Lrp8	low density li	16975	0.547	2.7412	1.8534	1.3931
NM_053073	Lrp8	low density li	16975	0.547	2.7285	1.8362	1.3931
NM_053073	Lrp8	low density li	16975	0.547	2.7285	0.9399	1.0333
NM_033371	Ppp1r16a	protein phos	73062	0.8538	3.3041	2.4365	4.0329
NM_033371	Ppp1r16a	protein phos	73062	0.7008	2.8257	2.0732	3.4577
NM_033371	Ppp1r16a	protein phos	73062	0.977	2.3454	1.9016	2.8804
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.8853	0.3919	0.3128
NM_031408	Gigyf1	GRB10 intera	57330	0.9779	2.8853	0.5709	0.3128
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.5484	0.5478	0.7039
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.5484	0.2976	0.3128
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.5484	0.2976	0.3128
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.5484	0.2976	0.3128
NM_031408	Gigyf1	GRB10 intera	57330	0.6275	2.5484	0.2976	0.3128
NM_030886	Ankrd17	ankyrin repe	81702	0.629	2.6391	4.7712	2.781
NM_030886	Ankrd17	ankyrin repe	81702	0.629	2.6391	3.782	2.781
NM_030886	Ankrd17	ankyrin repe	81702	0.671	2.6391	4.7712	2.781
NM_030255	Apobec3	apolipoprote	80287	0.2651	2.6429	2.3332	2.1578
NM_030255	Apobec3	apolipoprote	80287	0.2054	2.2989	2.0253	1.8704
NM_030255	Apobec3	apolipoprote	80287	0.3266	2.159	2.6403	2.4444
NM_030251	Abtb1	ankyrin repe	80283	0.78	2.2222	2.3804	1.9465
NM_030251	Abtb1	ankyrin repe	80283	0.9035	2.2222	2.3804	1.9465
NM_030251	Abtb1	ankyrin repe	80283	0.9035	2.2222	2.3804	1.9465

NM_030251	Abtb1	ankyrin repe	80283	0.6674	2.1279	1.143	1.7119
NM_029920	Mtus2	microtubule	77521	0.8745	2.0276	2.7882	2.5388
NM_029920	Mtus2	microtubule	77521	0.8745	2.0276	2.7882	2.5388
NM_029920	Mtus2	microtubule	77521	0.8745	2.0276	2.7882	2.5388
NM_029568	Mfap4	microfibrillar	76293	0.7216	3.2914	1.1862	4.144
NM_029568	Mfap4	microfibrillar	76293	0.7216	3.2914	0.8786	4.144
NM_029568	Mfap4	microfibrillar	76293	0.7216	3.2914	0.6438	4.144
NM_029568	Mfap4	microfibrillar	76293	0.7216	3.2914	0.6438	4.144
NM_029568	Mfap4	microfibrillar	76293	0.5433	2.9163	0.9432	3.6799
NM_029568	Mfap4	microfibrillar	76293	0.6741	2.5403	0.7024	3.2146
NM_029561	Ndfip2	Nedd4 family	76273	0.7245	2.3164	5.4678	5.3034
NM_029561	Ndfip2	Nedd4 family	76273	0.7245	2.0976	3.1497	2.7085
NM_029561	Ndfip2	Nedd4 family	76273	0.7725	2.0158	4.0044	3.8625
NM_029466	Arl5b	ADP-ribosyla	75869	0.7817	2.1643	2.9608	2.7685
NM_029466	Arl5b	ADP-ribosyla	75869	0.7817	2.1643	2.9608	2.7685
NM_029466	Arl5b	ADP-ribosyla	75869	0.7817	2.1643	2.9608	2.7685
NM_029182	Rasd2	RASD family,	75141	0.6508	2.8161	3.2031	2.7755
NM_029182	Rasd2	RASD family,	75141	0.6508	2.8161	3.2526	2.7755
NM_029182	Rasd2	RASD family,	75141	0.7829	2.8161	3.2526	2.7755
NM_028838	Lrrc2	leucine rich r	74249	0.1632	2.5391	1.6102	2.6103
NM_028838	Lrrc2	leucine rich r	74249	0.1632	2.3963	0.9761	2.6103
NM_028838	Lrrc2	leucine rich r	74249	0.2086	2.1224	1.2622	2.9497
NM_028728	Nfam1	Nfat activatir	74039	0.3915	2.1233	1.9667	2.2292
NM_028728	Nfam1	Nfat activatir	74039	0.3236	2.1212	2.0438	2.9137
NM_028728	Nfam1	Nfat activatir	74039	0.3236	2.1212	2.0438	2.9137
NM_028728	Nfam1	Nfat activatir	74039	0.3236	2.1212	2.4361	2.9137
NM_028728	Nfam1	Nfat activatir	74039	0.3236	2.1212	2.4361	3.7286
NM_028728	Nfam1	Nfat activatir	74039	0.3915	2.1212	1.9667	2.9137
NM_028666	Fam110a	family with s	73847	0.0163	3.1159	2.2078	2.0988
NM_028666	Fam110a	family with s	73847	0.0096	2.7591	1.8314	1.8482
NM_028666	Fam110a	family with s	73847	0.0049	2.4015	1.5521	1.597
NM_028666	Fam110a	family with s	73847	0.0002	2.2215	1.2792	1.2107
NM_028666	Fam110a	family with s	73847	0.002	2.0428	1.3061	1.3451
NM_028584	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0281	0.4915
NM_028584	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.5788	0.8214
NM_028584	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_028584	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_028584	Marveld3	MARVEL (me	73608	0.6522	2.3151	1.0279	0.4915
NM_028584	Marveld3	MARVEL (me	73608	0.5533	2.0419	1.3825	0.7045
NM_028035	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_028035	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_028035	Snx10	sorting nexin	71982	0.7116	2.1385	0.6273	0.1272
NM_028035	Snx10	sorting nexin	71982	0.3922	2.0955	0.4354	0.0658
NM_027883	Dhx34	DEAH (Asp-G	71723	0.9787	2.4694	1.2395	0.9145
NM_027883	Dhx34	DEAH (Asp-G	71723	0.9787	2.3569	1.2395	0.9145
NM_027883	Dhx34	DEAH (Asp-G	71723	0.9787	2.0889	1.1129	0.9145
NM_027864	Galnt14	UDP-N-acety	71685	0.4228	2.2308	2.9862	2.4967
NM_027864	Galnt14	UDP-N-acety	71685	0.4228	2.2308	2.9862	2.4967
NM_027864	Galnt14	UDP-N-acety	71685	0.4228	2.2308	2.9862	2.4967
NM_027864	Galnt14	UDP-N-acety	71685	0.2224	2.0358	1.9077	1.5101
NM_027641	Spef1	sperm flagell	70997	0.8737	3.9091	4.4208	4.922
NM_027641	Spef1	sperm flagell	70997	0.8737	3.9091	4.4208	5.1134
NM_027641	Spef1	sperm flagell	70997	0.8737	3.9091	4.4208	5.0125

NM_027641	Spef1	sperm flagell	70997	0.9166	3.5095	3.7702	4.2109
NM_027641	Spef1	sperm flagell	70997	0.6192	3.0642	3.1194	3.4992
NM_027404	Bag5	BCL2-associa	70369	0.9795	2.9696	3.0268	3.1688
NM_027404	Bag5	BCL2-associa	70369	0.9795	2.9696	3.0268	3.1688
NM_027404	Bag5	BCL2-associa	70369	0.9795	2.9696	3.0268	3.1688
NM_027404	Bag5	BCL2-associa	70369	0.6834	2.0967	1.941	2.0578
NM_027394	Ube2cbp	ubiquitin-cor	70348	0.9615	2.0383	1.8811	1.4664
NM_027394	Ube2cbp	ubiquitin-cor	70348	0.9615	2.0383	1.8811	1.4664
NM_027394	Ube2cbp	ubiquitin-cor	70348	0.9615	2.0383	1.8811	1.4664
NM_027394	Ube2cbp	ubiquitin-cor	70348	0.9615	2.0383	1.8811	1.4664
NM_027216	Slc39a11	solute carrier	69806	0.9908	2.593	1.0118	1.6772
NM_027216	Slc39a11	solute carrier	69806	0.9908	2.593	1.0118	1.2694
NM_027216	Slc39a11	solute carrier	69806	0.8399	2.2547	0.8585	0.9881
NM_026921	Isca1	iron-sulfur cl	69046	0.6614	2.3066	3.12	3.2993
NM_026921	Isca1	iron-sulfur cl	69046	0.6614	2.3066	3.12	3.2993
NM_026921	Isca1	iron-sulfur cl	69046	0.6614	2.3066	2.5722	2.1657
NM_026892	Eif1b	eukaryotic tr	68969	0.4632	2.008	4.4156	2.8986
NM_026892	Eif1b	eukaryotic tr	68969	0.4643	2.008	4.4156	2.8986
NM_026892	Eif1b	eukaryotic tr	68969	0.4643	2.008	4.1824	3.587
NM_026511	2810002N01	RIKEN cDNA	68020	0.9795	2.9696	3.0268	3.1688
NM_026511	2810002N01	RIKEN cDNA	68020	0.9795	2.9696	3.0268	3.1688
NM_026511	2810002N01	RIKEN cDNA	68020	0.9795	2.9696	3.0268	3.1688
NM_026511	2810002N01	RIKEN cDNA	68020	0.6834	2.0967	1.941	2.0578
NM_026481	Tppp3	tubulin polyn	67971	0.8927	3.5474	3.5442	4.5159
NM_026481	Tppp3	tubulin polyn	67971	0.3391	3.0035	2.9791	3.9028
NM_026481	Tppp3	tubulin polyn	67971	0.4109	2.897	2.9247	4.3595
NM_026481	Tppp3	tubulin polyn	67971	0.4109	2.897	2.9247	4.3595
NM_026453	Mak16	MAK16 homc	67920	0.9733	3.3374	2.1618	2.9926
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026453	Mak16	MAK16 homc	67920	0.9651	2.5505	2.0682	2.8518
NM_026419	Cela3b	chymotrypsin	67868	0.9313	2.0622	1.0114	1.476
NM_026419	Cela3b	chymotrypsin	67868	0.9313	2.0622	1.0114	1.476
NM_026419	Cela3b	chymotrypsin	67868	0.9313	2.0622	1.0114	1.476
NM_025915	Tmem88	transmembra	67020	0.3473	2.1578	1.9277	2.0515
NM_025915	Tmem88	transmembra	67020	0.5276	2.1578	1.9277	2.0515
NM_025915	Tmem88	transmembra	67020	0.979	2.0857	1.742	1.94
NM_025915	Tmem88	transmembra	67020	0.979	2.0857	1.742	1.94
NM_025590	Acot11	acyl-CoA thio	329910	0.9193	2.8944	1.2531	2.0377
NM_025590	Acot11	acyl-CoA thio	329910	0.9193	2.8944	1.2531	2.0377
NM_025590	Acot11	acyl-CoA thio	329910	0.7921	2.5813	1.0909	1.7935
NM_025590	Acot11	acyl-CoA thio	329910	0.7921	2.5813	1.0909	1.7935
NM_025590	Acot11	acyl-CoA thio	329910	0.7921	2.5607	1.0909	1.7935
NM_024452	Luzp1	leucine zippe	269593	0.9281	2.5065	2.6586	2.1862
NM_024452	Luzp1	leucine zippe	269593	0.9281	2.5065	3.8901	2.951
NM_024452	Luzp1	leucine zippe	269593	0.9281	2.5065	3.8901	2.7175
NM_024440	Derl3	Der1-like dor	70377	0.7473	2.8907	0.4125	0.5866
NM_024440	Derl3	Der1-like dor	70377	0.7473	2.8907	0.4125	0.5866

NM_024440	Derl3	Der1-like dor	70377	0.7473	2.8907	0.4125	0.5866
NM_024440	Derl3	Der1-like dor	70377	0.9807	2.1639	2.1314	2.0314
NM_023913	Ern1	endoplasmic	78943	0.9109	2.4919	3.2685	2.6103
NM_023913	Ern1	endoplasmic	78943	0.9109	2.4919	3.2685	2.6103
NM_023913	Ern1	endoplasmic	78943	0.6193	2.0118	2.7659	2.1258
NM_023913	Ern1	endoplasmic	78943	0.6193	2.0118	2.7659	2.1258
NM_023792	Pank1	pantothenate	75735	0.9339	3.0719	5.4956	3.9594
NM_023792	Pank1	pantothenate	75735	0.5885	2.8823	5.4248	3.9594
NM_023792	Pank1	pantothenate	75735	0.9339	2.0208	4.0284	2.7168
NM_023792	Pank1	pantothenate	75735	0.9339	2.0208	4.0284	2.7168
NM_023792	Pank1	pantothenate	75735	0.9339	2.0049	2.775	1.6879
NM_023670	Igf2bp3	insulin-like gr	140488	0.9656	3.1589	3.9872	3.0808
NM_023670	Igf2bp3	insulin-like gr	140488	0.7527	2.663	3.3894	2.5946
NM_023670	Igf2bp3	insulin-like gr	140488	0.8093	2.0497	3.1692	2.1393
NM_023622	Rgl3	ral guanine n	71746	0.857	2.493	1.2449	1.9176
NM_023622	Rgl3	ral guanine n	71746	0.2501	2.2053	1.2449	1.9176
NM_023622	Rgl3	ral guanine n	71746	0.6169	2.2012	1.0835	1.6859
NM_023622	Rgl3	ral guanine n	71746	0.6593	2.2012	1.0835	1.6859
NM_021568	Pcbp3	poly(rC) bind	59093	0.9541	2.0307	2.0828	2.4092
NM_021568	Pcbp3	poly(rC) bind	59093	0.9541	2.0307	1.9038	2.4092
NM_021568	Pcbp3	poly(rC) bind	59093	0.9541	2.0307	1.4259	1.4398
NM_021568	Pcbp3	poly(rC) bind	59093	0.9541	2.0307	1.4259	1.4398
NM_021568	Pcbp3	poly(rC) bind	59093	0.9541	2.0307	1.4259	1.4398
NM_021497	Pvrl3	poliovirus rec	58998	0.9597	2.6859	4.4848	2.654
NM_021497	Pvrl3	poliovirus rec	58998	0.8867	2.5435	4.5562	3.8356
NM_021497	Pvrl3	poliovirus rec	58998	0.7809	2.0466	3.0308	2.5364
NM_021497	Pvrl3	poliovirus rec	58998	0.746	2.0056	4.0491	3.4036
NM_021496	Pvrl3	poliovirus rec	58998	0.9597	2.6859	4.4848	2.654
NM_021496	Pvrl3	poliovirus rec	58998	0.8867	2.5435	4.5562	3.8356
NM_021496	Pvrl3	poliovirus rec	58998	0.7809	2.0466	3.0308	2.5364
NM_021496	Pvrl3	poliovirus rec	58998	0.746	2.0056	4.0491	3.4036
NM_021495	Pvrl3	poliovirus rec	58998	0.9597	2.6859	4.4848	2.654
NM_021495	Pvrl3	poliovirus rec	58998	0.8867	2.5435	4.5562	3.8356
NM_021495	Pvrl3	poliovirus rec	58998	0.7809	2.0466	3.0308	2.5364
NM_021495	Pvrl3	poliovirus rec	58998	0.746	2.0056	4.0491	3.4036
NM_021478	Tulp1	tubby like pro	22157	0.6536	5.0806	4.058	5.7132
NM_021478	Tulp1	tubby like pro	22157	0.6536	5.0806	4.058	5.7132
NM_021478	Tulp1	tubby like pro	22157	0.6536	5.0806	4.058	5.7132
NM_021478	Tulp1	tubby like pro	22157	0.7645	4.2123	4.5662	6.1958
NM_021478	Tulp1	tubby like pro	22157	0.9329	4.1277	3.8573	4.0074
NM_021478	Tulp1	tubby like pro	22157	0.7645	3.4968	4.3453	4.8896
NM_021478	Tulp1	tubby like pro	22157	0.7645	3.4968	4.5662	4.8896
NM_021478	Tulp1	tubby like pro	22157	0.7645	3.4968	4.5662	5.6264
NM_021478	Tulp1	tubby like pro	22157	0.8225	3.1003	3.8602	4.3476
NM_021478	Tulp1	tubby like pro	22157	0.6915	2.7028	3.3738	3.8043
NM_021478	Tulp1	tubby like pro	22157	0.72	2.3041	2.8861	3.2594
NM_021423	Shank3	SH3/ankyrin	58234	0.8276	2.1443	2.4688	2.5081
NM_021423	Shank3	SH3/ankyrin	58234	0.8276	2.1443	2.4688	1.7826
NM_021423	Shank3	SH3/ankyrin	58234	0.8276	2.1443	2.4688	1.7826
NM_021411	Rab37	RAB37, mem	58222	0.8081	2.4057	0.8582	2.2048
NM_021411	Rab37	RAB37, mem	58222	0.5258	2.1289	0.8582	2.2048
NM_021411	Rab37	RAB37, mem	58222	0.5258	2.1289	0.8582	2.2048
NM_021387	Vstm2b	V-set and tra	58188	0.7797	2.7756	3.2172	3.1546

NM_021387	Vstm2b	V-set and tra	58188	0.9301	2.7756	3.5689	3.1546
NM_021387	Vstm2b	V-set and tra	58188	0.8017	2.2036	3.0223	2.5277
NM_021387	Vstm2b	V-set and tra	58188	0.7797	2.0775	2.8223	2.801
NM_020043	Igdcc4	immunoglob	56741	0.9897	2.1895	2.2654	2.2461
NM_020043	Igdcc4	immunoglob	56741	0.9897	2.1895	1.8712	2.1807
NM_020043	Igdcc4	immunoglob	56741	0.6849	2.0309	0.662	1.4186
NM_020043	Igdcc4	immunoglob	56741	0.6849	2.0309	0.662	1.4186
NM_020043	Igdcc4	immunoglob	56741	0.6849	2.0309	0.662	1.4186
NM_020043	Igdcc4	immunoglob	56741	0.7718	2.0309	1.0145	1.4186
NM_020043	Igdcc4	immunoglob	56741	0.7718	2.0309	1.0145	1.4186
NM_019969	Plag1	pleiomorphic	56711	0.4681	2.2273	2.1393	1.9661
NM_019969	Plag1	pleiomorphic	56711	0.4681	2.2273	2.1393	1.9661
NM_019969	Plag1	pleiomorphic	56711	0.1263	2.0589	1.6746	1.5104
NM_019969	Plag1	pleiomorphic	56711	0.4887	2.0589	1.6746	1.5104
NM_019798	Pde4a	phosphodies	18577	0.8676	2.1657	0.6493	0.9475
NM_019798	Pde4a	phosphodies	18577	0.8676	2.1657	0.6493	0.9475
NM_019798	Pde4a	phosphodies	18577	0.8676	2.041	0.6493	0.9475
NM_019743	Rybp	RING1 and YY	56353	0.7884	2.5118	4.5319	3.1378
NM_019743	Rybp	RING1 and YY	56353	0.8924	2.1789	0.5055	1.0423
NM_019743	Rybp	RING1 and YY	56353	0.8924	2.1789	0.5055	1.0423
NM_019743	Rybp	RING1 and YY	56353	0.8924	2.1789	0.5055	1.0423
NM_019741	Slc2a5	solute carrier	56485	0.9943	2.9877	2.333	5.3413
NM_019741	Slc2a5	solute carrier	56485	0.9943	2.9877	2.333	5.3413
NM_019741	Slc2a5	solute carrier	56485	0.9943	2.9877	2.333	5.3413
NM_019741	Slc2a5	solute carrier	56485	0.9943	2.9877	2.333	5.3413
NM_019741	Slc2a5	solute carrier	56485	0.9943	2.4761	1.7899	5.307
NM_019741	Slc2a5	solute carrier	56485	0.7775	2.1861	1.5716	4.7214
NM_019709	Mbtps1	membrane-b	56453	0.9382	2.0495	1.7652	2.2056
NM_019709	Mbtps1	membrane-b	56453	0.9382	2.0495	1.7652	2.2056
NM_019709	Mbtps1	membrane-b	56453	0.9382	2.0495	1.7652	2.2056
NM_019709	Mbtps1	membrane-b	56453	0.9382	2.0495	1.7652	2.6038
NM_019709	Mbtps1	membrane-b	56453	0.9382	2.0495	1.7652	2.6038
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.7063	2.5243	0.7612	2.2111
NM_019585	Espn	espin	56226	0.7925	2.5243	0.7612	2.1928
NM_019585	Espn	espin	56226	0.9963	2.5243	1.5414	3.3541
NM_019518	Grasp	GRP1 (genera	56149	0.6578	2.759	1.5357	2.7727
NM_019518	Grasp	GRP1 (genera	56149	0.4535	2.643	0.8882	1.558
NM_019518	Grasp	GRP1 (genera	56149	0.4535	2.643	0.8882	1.7334
NM_019518	Grasp	GRP1 (genera	56149	0.4535	2.5885	0.8882	1.558
NM_019518	Grasp	GRP1 (genera	56149	0.4535	2.5885	0.8882	1.558
NM_019518	Grasp	GRP1 (genera	56149	0.4477	2.2063	1.5357	1.7334
NM_019502	Fxc1	fractured cal	14356	0.5734	2.7191	1.3876	1.4078
NM_019502	Fxc1	fractured cal	14356	0.5734	2.7191	1.3876	1.3411
NM_019502	Fxc1	fractured cal	14356	0.5734	2.7191	1.3876	1.3411
NM_019464	Sh3glb1	SH3-domain	54673	0.902	2.4126	4.5621	4.1723
NM_019464	Sh3glb1	SH3-domain	54673	0.8171	2.2437	4.5621	4.1723
NM_019464	Sh3glb1	SH3-domain	54673	0.902	2.1255	2.9799	2.1426
NM_019454	Dll4	delta-like 4 (l	54485	0.7462	3.143	3.2136	3.7604

NM_019454	Dll4	delta-like 4 (L	54485	0.3636	2.6389	2.8466	4.5357
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.6802	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.0948	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.0948	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.0948	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.0948	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.4062	2.2001	2.0948	3.9221
NM_019454	Dll4	delta-like 4 (L	54485	0.662	2.0366	2.3082	2.5497
NM_019431	Cacng4	calcium chan	54377	0.6852	2.7183	2.831	3.474
NM_019431	Cacng4	calcium chan	54377	0.6852	2.7183	2.8466	3.474
NM_019431	Cacng4	calcium chan	54377	0.709	2.7183	4.1133	4.851
NM_018880	Trim3	tripartite mo	55992	0.5734	2.7191	1.3876	1.4078
NM_018880	Trim3	tripartite mo	55992	0.5734	2.7191	1.3876	1.3411
NM_018880	Trim3	tripartite mo	55992	0.5734	2.7191	1.3876	1.3411
NM_018880	Trim3	tripartite mo	55992	0.5734	2.7191	1.3876	1.3411
NM_017472	Snx3	sorting nexin	54198	0.4595	2.7526	4.3846	3.9929
NM_017472	Snx3	sorting nexin	54198	0.1478	2.3821	3.5172	3.2751
NM_017472	Snx3	sorting nexin	54198	0.3612	2.3473	3.7627	3.423
NM_017400	Sh3gl3	SH3-domain	20408	0.7449	2.0533	1.1502	1.2768
NM_017400	Sh3gl3	SH3-domain	20408	0.7449	2.0533	0.7961	1.0819
NM_017400	Sh3gl3	SH3-domain	20408	0.7449	2.0533	0.7961	1.0819
NM_017392	Celsr2	cadherin, EG	53883	0.9749	2.4571	2.7545	2.0952
NM_017392	Celsr2	cadherin, EG	53883	0.879	2.2356	1.2091	0.7799
NM_017392	Celsr2	cadherin, EG	53883	0.879	2.2356	0.4769	0.5285
NM_017392	Celsr2	cadherin, EG	53883	0.879	2.2211	0.3866	0.5285
NM_017392	Celsr2	cadherin, EG	53883	0.9577	2.2211	0.3866	0.5285
NM_016962	Spast	spastin	50850	0.4754	2.38	3.7493	3.3725
NM_016962	Spast	spastin	50850	0.7363	2.38	4.6115	3.3725
NM_016962	Spast	spastin	50850	0.7363	2.38	4.6115	3.3725
NM_016866	Stk39	serine/threor	53416	0.8399	2.2942	3.9181	3.2554
NM_016866	Stk39	serine/threor	53416	0.8586	2.0681	3.0018	2.3639
NM_016866	Stk39	serine/threor	53416	0.8586	2.0681	2.0846	1.4035
NM_016866	Stk39	serine/threor	53416	0.8586	2.0681	2.0846	1.4035
NM_016866	Stk39	serine/threor	53416	0.8586	2.0681	2.0846	1.4035
NM_016718	Ninj2	ninjurin 2	29862	0.9439	2.3657	1.0081	1.7709
NM_016718	Ninj2	ninjurin 2	29862	0.9439	2.328	1.0081	1.2519
NM_016718	Ninj2	ninjurin 2	29862	0.9439	2.328	1.0081	1.2519
NM_016718	Ninj2	ninjurin 2	29862	0.8141	2.0535	0.8715	1.0898
NM_013923	Rnf19a	ring finger pr	30945	0.5718	2.1314	3.2078	2.6849
NM_013923	Rnf19a	ring finger pr	30945	0.4464	2.01	3.2064	2.6215
NM_013923	Rnf19a	ring finger pr	30945	0.4464	2.01	3.2064	2.6215
NM_013586	Loxl3	lysyl oxidase-	16950	0.7478	2.3583	3.3722	4.2868
NM_013586	Loxl3	lysyl oxidase-	16950	0.7478	2.0784	2.4273	4.2868
NM_013586	Loxl3	lysyl oxidase-	16950	0.7478	2.0784	2.4273	3.5713
NM_013586	Loxl3	lysyl oxidase-	16950	0.8243	2.0784	2.3492	3.4833
NM_013586	Loxl3	lysyl oxidase-	16950	0.8243	2.0784	2.3492	3.4833
NM_013586	Loxl3	lysyl oxidase-	16950	0.8243	2.0784	2.3492	3.4833
NM_013586	Loxl3	lysyl oxidase-	16950	0.9837	2.0784	2.3492	3.2497
NM_013586	Loxl3	lysyl oxidase-	16950	0.3873	2.0491	1.3537	2.7221
NM_013543	H2-Ke6	H2-K region e	14979	0.6678	2.8167	2.265	1.8208
NM_013543	H2-Ke6	H2-K region e	14979	0.7179	2.5332	1.9223	1.2215
NM_013543	H2-Ke6	H2-K region e	14979	0.7179	2.5332	1.9223	1.2215

NM_013543	H2-Ke6	H2-K region e	14979	0.7179	2.2393	1.1082	1.2215
NM_013526	Gdf6	growth differ	242316	0.823	2.1949	3.4952	3.8667
NM_013526	Gdf6	growth differ	242316	0.823	2.1949	3.4952	3.8667
NM_013526	Gdf6	growth differ	242316	0.8365	2.1949	3.4952	3.9315
NM_013526	Gdf6	growth differ	242316	0.8365	2.1949	3.4952	3.9315
NM_013510	Epb4.1l1	erythrocyte g	13821	0.6964	2.6102	2.344	2.4854
NM_013510	Epb4.1l1	erythrocyte g	13821	0.7009	2.6102	2.344	2.3145
NM_013510	Epb4.1l1	erythrocyte g	13821	0.7009	2.6102	2.344	2.3145
NM_013510	Epb4.1l1	erythrocyte g	13821	0.5069	2.1828	1.8358	1.9561
NM_011983	Homer2	homer homo	26557	0.9944	2.7265	1.1176	0.5284
NM_011983	Homer2	homer homo	26557	0.7792	2.1458	1.5426	1.5165
NM_011983	Homer2	homer homo	26557	0.7792	2.1458	1.2812	0.9956
NM_011983	Homer2	homer homo	26557	0.7792	2.1458	1.1176	0.5284
NM_011983	Homer2	homer homo	26557	0.7792	2.1458	1.1176	0.5284
NM_011983	Homer2	homer homo	26557	0.7792	2.1458	1.1176	0.5284
NM_011969	Psm7	proteasome	26444	0.5822	2.0405	2.3663	1.7233
NM_011969	Psm7	proteasome	26444	0.5822	2.0405	2.3663	1.7233
NM_011969	Psm7	proteasome	26444	0.5822	2.0405	2.3663	1.7233
NM_011939	Hsf4	heat shock tr	26386	0.9202	3.4008	3.1915	4.5664
NM_011939	Hsf4	heat shock tr	26386	0.7928	3.3939	2.6915	3.9646
NM_011939	Hsf4	heat shock tr	26386	0.8792	3.0204	1.3797	1.7964
NM_011939	Hsf4	heat shock tr	26386	0.2542	2.5157	1.2615	1.7964
NM_011939	Hsf4	heat shock tr	26386	0.7813	2.5157	1.9275	3.4734
NM_011939	Hsf4	heat shock tr	26386	0.7813	2.5157	1.9275	3.4734
NM_011939	Hsf4	heat shock tr	26386	0.7813	2.5157	1.9275	3.4734
NM_011939	Hsf4	heat shock tr	26386	0.8063	2.2876	1.9302	2.5555
NM_011939	Hsf4	heat shock tr	26386	0.3112	2.2498	3.1915	4.5664
NM_011939	Hsf4	heat shock tr	26386	0.3112	2.2498	3.1915	3.8119
NM_011939	Hsf4	heat shock tr	26386	0.8792	2.1921	0.8114	1.1406
NM_011939	Hsf4	heat shock tr	26386	0.148	2.1865	1.4603	2.5484
NM_011939	Hsf4	heat shock tr	26386	0.148	2.1865	0.7198	1.4263
NM_011939	Hsf4	heat shock tr	26386	0.6552	2.1865	1.4603	2.5484
NM_011789	Apc2	adenomatosi	23805	0.8277	2.1722	0.9363	1.5262
NM_011789	Apc2	adenomatosi	23805	0.8277	2.1722	0.7856	1.5262
NM_011789	Apc2	adenomatosi	23805	0.8277	2.1722	0.7856	1.5262
NM_011789	Apc2	adenomatosi	23805	0.8277	2.1722	0.7856	1.5262
NM_011789	Apc2	adenomatosi	23805	0.8277	2.1722	0.7856	1.5262
NM_011732	Ybx1	Y box protein	22608	0.8579	2.1496	3.5293	2.4393
NM_011732	Ybx1	Y box protein	22608	0.8579	2.1496	2.3567	2.3725
NM_011732	Ybx1	Y box protein	22608	0.8579	2.1496	2.3567	2.3725
NM_011732	Ybx1	Y box protein	22608	0.8579	2.1496	2.3567	2.3725
NM_011668	Ube3a	ubiquitin pro	22215	0.898	2.6647	2.556	1.9355
NM_011668	Ube3a	ubiquitin pro	22215	0.8248	2.169	2.0758	1.545
NM_011668	Ube3a	ubiquitin pro	22215	0.808	2.0644	3.0367	2.3271
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.6048	1.5036
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.881
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.881
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.9113
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.881
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.881
NM_011659	Tnfrsf4	tumor necros	22163	0.9463	2.0766	1.136	0.881
NM_011566	Tead3	TEA domain t	21678	0.7904	3.6133	3.3024	4.0039
NM_011566	Tead3	TEA domain t	21678	0.2266	2.4267	2.1682	4.0039



NM_011566	Tead3	TEA domain t	21678	0.1293	2.099	2.0281	4.0039
NM_011566	Tead3	TEA domain t	21678	0.1293	2.099	2.0281	4.2518
NM_011562	Tdgf1	teratocarcin	21667	0.1632	2.5391	1.6102	2.6103
NM_011562	Tdgf1	teratocarcin	21667	0.1632	2.3963	0.9761	2.6103
NM_011562	Tdgf1	teratocarcin	21667	0.2086	2.1224	1.2622	2.9497
NM_011532	Tbx1	T-box 1	21380	0.7753	2.47	2.5386	2.6818
NM_011532	Tbx1	T-box 1	21380	0.016	2.3475	1.4909	2.9522
NM_011532	Tbx1	T-box 1	21380	0.0244	2.3475	1.4909	2.9522
NM_011532	Tbx1	T-box 1	21380	0.3701	2.3475	1.5324	3.4899
NM_011532	Tbx1	T-box 1	21380	0.0244	2.1555	1.5324	3.4899
NM_011532	Tbx1	T-box 1	21380	0.5191	2.1022	1.983	2.2859
NM_011438	Sox12	SRY-box cont	20667	0.9851	3.2339	4.2064	2.2585
NM_011438	Sox12	SRY-box cont	20667	0.9958	3.2339	4.2064	2.8267
NM_011438	Sox12	SRY-box cont	20667	0.9851	3.0259	4.2064	2.2585
NM_011438	Sox12	SRY-box cont	20667	0.9851	3.0259	4.2064	2.2585
NM_011438	Sox12	SRY-box cont	20667	0.3627	2.1116	2.9252	1.812
NM_011385	Ski	ski sarcoma v	20481	0.9147	2.2907	5.3046	5.4577
NM_011385	Ski	ski sarcoma v	20481	0.9147	2.2907	3.8295	3.9487
NM_011385	Ski	ski sarcoma v	20481	0.9147	2.2907	3.8295	3.9487
NM_011385	Ski	ski sarcoma v	20481	0.8131	2.2813	3.3649	2.7474
NM_011385	Ski	ski sarcoma v	20481	0.7154	2.1454	3.2326	3.2206
NM_011306	Rxb1	retinoid X rec	20182	0.6678	2.8167	2.265	1.8208
NM_011306	Rxb1	retinoid X rec	20182	0.7179	2.5332	1.9223	1.2215
NM_011306	Rxb1	retinoid X rec	20182	0.7179	2.5332	1.9223	1.2215
NM_011306	Rxb1	retinoid X rec	20182	0.7179	2.2393	1.1082	1.2215
NM_011172	Prodh	proline dehy	19125	0.5856	2.9056	0.7548	1.8142
NM_011172	Prodh	proline dehy	19125	0.5856	2.9056	0.7548	1.8142
NM_011172	Prodh	proline dehy	19125	0.5856	2.9056	0.7548	1.8142
NM_011153	Gsbs	G substrate	19051	0.5224	2.491	1.817	1.6875
NM_011153	Gsbs	G substrate	19051	0.5224	2.1392	1.817	1.6875
NM_011153	Gsbs	G substrate	19051	0.2995	2.1382	1.2055	1.6875
NM_010942	Nsg1	neuron speci	18196	0.9959	2.6721	3.4592	4.4056
NM_010942	Nsg1	neuron speci	18196	0.9959	2.6721	3.4592	4.4056
NM_010942	Nsg1	neuron speci	18196	0.6076	2.1792	2.4648	3.2434
NM_010942	Nsg1	neuron speci	18196	0.6076	2.1792	2.4648	3.2434
NM_010942	Nsg1	neuron speci	18196	0.6076	2.1792	1.4878	3.045
NM_010942	Nsg1	neuron speci	18196	0.6076	2.1792	1.4878	3.045
NM_010822	Mpg	N-methylpur	268395	0.8281	3.0369	2.5627	2.7447
NM_010822	Mpg	N-methylpur	268395	0.9515	2.3142	2.6321	2.5182
NM_010822	Mpg	N-methylpur	268395	0.8281	2.2109	2.5627	2.3807
NM_010784	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_010784	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_010784	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_010784	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_010784	Mdk	midkine	17242	0.5893	2.4959	2.42	4.1999
NM_010773	Mbd2	methyl-CpG t	17191	0.3669	3.4949	2.6406	2.4581
NM_010773	Mbd2	methyl-CpG t	17191	0.3107	3.0512	2.2968	2.1357
NM_010773	Mbd2	methyl-CpG t	17191	0.3385	2.6984	2.1013	1.7392
NM_010773	Mbd2	methyl-CpG t	17191	0.3882	2.6984	2.6424	2.0513
NM_010773	Mbd2	methyl-CpG t	17191	0.2202	2.6063	1.952	1.8122
NM_010773	Mbd2	methyl-CpG t	17191	0.1517	2.1598	1.606	1.4877
NM_010756	Mafg	v-maf muscu	17134	0.7419	2.0751	2.8141	2.3064
NM_010756	Mafg	v-maf muscu	17134	0.8517	2.0751	2.8261	2.3064

NM_010756	Mafg	v-maf muscu	17134	0.8517	2.0751	2.8141	2.3064
NM_010754	Smad2	MAD homolo	17126	0.997	2.65	5.3385	4.3677
NM_010754	Smad2	MAD homolo	17126	0.997	2.65	5.35	4.3677
NM_010754	Smad2	MAD homolo	17126	0.735	2.4697	2.7063	2.243
NM_010754	Smad2	MAD homolo	17126	0.997	2.4697	3.8928	3.3926
NM_010750	Mab21l1	mab-21-like	17116	0.1316	3.343	2.4968	1.2237
NM_010750	Mab21l1	mab-21-like	17116	0.1316	3.343	2.4968	1.2237
NM_010750	Mab21l1	mab-21-like	17116	0.6286	3.343	2.4968	1.8453
NM_010750	Mab21l1	mab-21-like	17116	0.5457	2.9625	2.2047	1.5155
NM_010750	Mab21l1	mab-21-like	17116	0.4482	2.5811	2.4518	2.2386
NM_010750	Mab21l1	mab-21-like	17116	0.3515	2.3943	2.0864	1.9015
NM_010750	Mab21l1	mab-21-like	17116	0.0254	2.2019	1.5101	0.5247
NM_010750	Mab21l1	mab-21-like	17116	0.0254	2.2019	1.5101	0.5247
NM_010732	Lrrn2	leucine rich	16980	0.5618	3.3213	2.4044	5.2229
NM_010732	Lrrn2	leucine rich	16980	0.5618	3.3213	2.4044	5.2229
NM_010732	Lrrn2	leucine rich	16980	0.804	3.1414	0.9772	2.5772
NM_010732	Lrrn2	leucine rich	16980	0.3969	2.8388	2.4044	4.6243
NM_010732	Lrrn2	leucine rich	16980	0.3969	2.8388	1.6269	3.2802
NM_010732	Lrrn2	leucine rich	16980	0.804	2.0352	0.9772	1.929
NM_010729	Loxl1	lysyl oxidase-	16949	0.6802	2.1625	1.9951	1.9588
NM_010729	Loxl1	lysyl oxidase-	16949	0.6802	2.1625	1.7716	1.9588
NM_010729	Loxl1	lysyl oxidase-	16949	0.6802	2.1625	1.7716	1.8164
NM_010729	Loxl1	lysyl oxidase-	16949	0.6802	2.1625	1.7716	1.9588
NM_010710	Lhx2	LIM homeob	16870	0.7113	2.295	3.268	3.1074
NM_010710	Lhx2	LIM homeob	16870	0.9003	2.295	3.5704	3.1074
NM_010710	Lhx2	LIM homeob	16870	0.7346	2.1248	2.4918	2.2716
NM_010710	Lhx2	LIM homeob	16870	0.7346	2.1248	2.4918	2.2716
NM_010617	Kif13a	kinesin famil	16553	0.6462	2.6543	4.8344	3.8646
NM_010617	Kif13a	kinesin famil	16553	0.6462	2.6543	4.8344	3.8646
NM_010617	Kif13a	kinesin famil	16553	0.6462	2.6543	3.7576	3.0793
NM_010455	Hoxa7	homeobox A	15404	0.2498	4.1311	2.6128	3.0125
NM_010455	Hoxa7	homeobox A	15404	0.2498	4.1311	2.6128	3.0125
NM_010455	Hoxa7	homeobox A	15404	0.3488	4.1311	3.4323	4.3094
NM_010455	Hoxa7	homeobox A	15404	0.3488	3.5918	3.495	4.2168
NM_010455	Hoxa7	homeobox A	15404	0.4914	3.5918	3.3591	4.2168
NM_010455	Hoxa7	homeobox A	15404	0.4914	3.4969	3.3469	3.8433
NM_010455	Hoxa7	homeobox A	15404	0.2303	3.4055	1.9851	2.933
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.2498	3.4055	2.6128	3.1636
NM_010455	Hoxa7	homeobox A	15404	0.3484	2.3297	2.2051	2.6192
NM_010455	Hoxa7	homeobox A	15404	0.1009	2.2537	1.2757	2.8521
NM_010455	Hoxa7	homeobox A	15404	0.2017	2.2537	1.5263	2.8521
NM_010454	Hoxa6	homeobox A	15403	0.1646	3.3153	2.2954	1.6003
NM_010454	Hoxa6	homeobox A	15403	0.1646	3.3153	2.2954	1.6003
NM_010454	Hoxa6	homeobox A	15403	0.1646	3.3153	2.2954	1.6003
NM_010454	Hoxa6	homeobox A	15403	0.1646	3.0969	2.2954	1.6003
NM_010454	Hoxa6	homeobox A	15403	0.0003	2.1789	1.3488	0.8157
NM_010454	Hoxa6	homeobox A	15403	0.0003	2.1789	1.3488	0.8059
NM_010453	Hoxa5	homeobox A	15402	0.1646	3.3153	2.2954	1.6003

NM_010453	Hoxa5	homeobox A	15402	0.1646	3.3153	2.2954	1.6003
NM_010453	Hoxa5	homeobox A	15402	0.1646	3.3153	2.2954	1.6003
NM_010453	Hoxa5	homeobox A	15402	0.1646	3.0969	2.2954	1.6003
NM_010453	Hoxa5	homeobox A	15402	0.7329	3.0704	2.2162	4.0327
NM_010453	Hoxa5	homeobox A	15402	0.4049	2.506	1.2401	2.8677
NM_010453	Hoxa5	homeobox A	15402	0.4049	2.506	1.2401	2.8677
NM_010453	Hoxa5	homeobox A	15402	0.7329	2.2957	2.1988	2.9145
NM_010453	Hoxa5	homeobox A	15402	0.0003	2.1789	1.3488	0.8157
NM_010453	Hoxa5	homeobox A	15402	0.0003	2.1789	1.3488	0.8059
NM_010452	Hoxa3	homeobox A	15400	0.4843	4.2264	2.1586	4.2825
NM_010452	Hoxa3	homeobox A	15400	0.4843	4.0053	1.9907	3.1762
NM_010452	Hoxa3	homeobox A	15400	0.8551	3.7637	1.9907	3.1762
NM_010452	Hoxa3	homeobox A	15400	0.4843	3.6907	1.9907	3.1762
NM_010452	Hoxa3	homeobox A	15400	0.4843	3.5482	1.9907	2.5657
NM_010452	Hoxa3	homeobox A	15400	0.4843	3.5482	1.9907	2.5657
NM_010452	Hoxa3	homeobox A	15400	0.7329	3.0704	2.2162	4.0327
NM_010452	Hoxa3	homeobox A	15400	0.6761	2.6554	2.0283	2.4834
NM_010452	Hoxa3	homeobox A	15400	0.6761	2.6554	1.9197	2.0396
NM_010452	Hoxa3	homeobox A	15400	0.833	2.6554	3.1329	3.6812
NM_010452	Hoxa3	homeobox A	15400	0.9879	2.6554	3.1329	3.8202
NM_010452	Hoxa3	homeobox A	15400	0.4049	2.506	1.2401	2.8677
NM_010452	Hoxa3	homeobox A	15400	0.4049	2.506	1.2401	2.8677
NM_010452	Hoxa3	homeobox A	15400	0.4049	2.506	1.2401	2.8677
NM_010452	Hoxa3	homeobox A	15400	0.9087	2.3747	2.2498	2.7344
NM_010452	Hoxa3	homeobox A	15400	0.4843	2.3724	1.2474	1.8285
NM_010452	Hoxa3	homeobox A	15400	0.4843	2.3724	1.2474	1.8285
NM_010452	Hoxa3	homeobox A	15400	0.772	2.3467	2.6402	3.2654
NM_010452	Hoxa3	homeobox A	15400	0.772	2.3467	2.6402	3.2654
NM_010452	Hoxa3	homeobox A	15400	0.7329	2.2957	2.1988	2.9145
NM_010448	Hnrnpab	heterogeneo	15384	0.803	2.514	4.0435	2.9569
NM_010448	Hnrnpab	heterogeneo	15384	0.3757	2.1169	3.1855	2.3981
NM_010448	Hnrnpab	heterogeneo	15384	0.5347	2.0399	3.5357	2.4199
NM_010444	Nr4a1	nuclear recep	15370	0.944	2.2572	1.6276	1.9254
NM_010444	Nr4a1	nuclear recep	15370	0.944	2.2572	1.6276	1.9254
NM_010444	Nr4a1	nuclear recep	15370	0.944	2.2572	1.6276	1.9254
NM_010327	Gp1bb	glycoprotein	14724	0.6292	2.7058	2.6295	3.8612
NM_010327	Gp1bb	glycoprotein	14724	0.2814	2.3919	2.3235	3.4266
NM_010327	Gp1bb	glycoprotein	14724	0.1138	2.3285	2.6295	3.4633
NM_010305	Gnai1	guanine nucl	14677	0.3789	2.5203	3.574	2.0499
NM_010305	Gnai1	guanine nucl	14677	0.3789	2.5203	3.574	2.0499
NM_010305	Gnai1	guanine nucl	14677	0.9992	2.5203	3.6785	2.6146
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.1062
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.1062
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.1062
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.1062
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.2143
NM_010238	Brd2	bromodomai	14312	0.6621	2.4254	4.2219	4.2143
NM_010238	Brd2	bromodomai	14312	0.9311	2.4254	4.9962	4.2143
NM_010238	Brd2	bromodomai	14312	0.9311	2.1083	2.3272	2.0489
NM_010208	Fgr	Gardner-Rasi	14191	0.7002	2.4308	0.6614	0.9251
NM_010208	Fgr	Gardner-Rasi	14191	0.7002	2.4308	0.6614	0.9251
NM_010208	Fgr	Gardner-Rasi	14191	0.7002	2.4308	0.6614	0.9251

NM_010208	Fgr	Gardner-Ras	14191	0.9576	2.4308	0.6614	0.9251
NM_010208	Fgr	Gardner-Ras	14191	0.525	2.0261	0.8976	1.4375
NM_010208	Fgr	Gardner-Ras	14191	0.525	2.0261	0.492	0.6415
NM_010181	Fbn2	fibrillin 2	14119	0.6093	2.7938	1.4762	3.1367
NM_010181	Fbn2	fibrillin 2	14119	0.7178	2.5055	2.4612	2.06
NM_010181	Fbn2	fibrillin 2	14119	0.8103	2.2124	3.2416	2.8088
NM_010150	Nr2f6	nuclear recep	13864	0.7261	2.4814	1.6232	2.5951
NM_010150	Nr2f6	nuclear recep	13864	0.4221	2.3574	1.1188	2.228
NM_010150	Nr2f6	nuclear recep	13864	0.349	2.0798	1.3706	2.9908
NM_010150	Nr2f6	nuclear recep	13864	0.9031	2.0798	1.4701	2.2927
NM_010117	Rhbdf1	rhomoid far	13650	0.8281	3.0369	2.5627	2.7447
NM_010117	Rhbdf1	rhomoid far	13650	0.9515	2.3142	2.6321	2.5182
NM_010117	Rhbdf1	rhomoid far	13650	0.8281	2.2109	2.5627	2.3807
NM_010070	Dok1	docking prote	13448	0.7478	2.3583	3.3722	4.2868
NM_010070	Dok1	docking prote	13448	0.7478	2.0784	2.4273	4.2868
NM_010070	Dok1	docking prote	13448	0.7478	2.0784	2.4273	3.5713
NM_010070	Dok1	docking prote	13448	0.8243	2.0784	2.3492	3.4833
NM_010070	Dok1	docking prote	13448	0.8243	2.0784	2.3492	3.4833
NM_010070	Dok1	docking prote	13448	0.8243	2.0784	2.3492	3.4833
NM_010070	Dok1	docking prote	13448	0.8243	2.0784	2.3492	3.4833
NM_010070	Dok1	docking prote	13448	0.9837	2.0784	2.3492	3.2497
NM_010057	Dlx6	distal-less ho	13396	0.6586	2.0023	2.7398	2.695
NM_010057	Dlx6	distal-less ho	13396	0.6586	2.0023	2.7398	2.695
NM_010057	Dlx6	distal-less ho	13396	0.6586	2.0023	2.5671	2.5293
NM_009952	Creb1	cAMP respon	12912	0.7853	2.7177	4.4193	3.419
NM_009952	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_009952	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_009952	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_009952	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_009861	Cdc42	cell division d	12540	0.9224	2.583	3.4003	3.611
NM_009861	Cdc42	cell division d	12540	0.6848	2.099	3.0329	2.9823
NM_009861	Cdc42	cell division d	12540	0.6848	2.099	2.9677	2.9823
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	1.0326	2.0319
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	1.0326	2.0319
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	0.9213	1.9905
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	0.9213	1.9905
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	0.9213	1.9905
NM_009814	Casq2	calsequestrin	12373	0.7819	2.1468	0.9213	1.9905
NM_009806	Cask	calcium/calm	12361	0.9737	2.2722	1.515	1.9827
NM_009806	Cask	calcium/calm	12361	0.8407	2.0035	1.1342	1.529
NM_009806	Cask	calcium/calm	12361	0.8407	2.0035	0.951	1.5267
NM_009713	Arsa	arylsulfatase	11883	0.8868	2.8127	1.0615	2.2008
NM_009713	Arsa	arylsulfatase	11883	0.8868	2.8127	1.0615	2.2008
NM_009713	Arsa	arylsulfatase	11883	0.8868	2.8127	1.0615	2.2008
NM_009701	Aqp5	aquaporin 5	11830	0.9289	2.297	2.6884	3.2061
NM_009701	Aqp5	aquaporin 5	11830	0.9289	2.297	2.6884	3.2061
NM_009701	Aqp5	aquaporin 5	11830	0.9289	2.297	2.6884	3.2061
NM_009701	Aqp5	aquaporin 5	11830	0.9289	2.297	1.7583	2.9201
NM_009701	Aqp5	aquaporin 5	11830	0.8006	2.0257	2.2512	2.8399
NM_009701	Aqp5	aquaporin 5	11830	0.847	2.0257	2.2512	2.8399
NM_009695	Apoc2	apolipoprote	11813	0.8791	2.5315	1.0294	1.4153
NM_009695	Apoc2	apolipoprote	11813	0.8791	2.5315	1.0226	1.0632
NM_009695	Apoc2	apolipoprote	11813	0.6036	2.114	0.728	1.0504

NM_009604	Chrng	cholinergic re	11449	0.8254	2.0096	0.2472	1.1184
NM_009604	Chrng	cholinergic re	11449	0.8254	2.0096	0.2472	1.1184
NM_009604	Chrng	cholinergic re	11449	0.8254	2.0096	0.2472	1.1184
NM_009543	Rnf103	ring finger pr	22644	0.8988	2.6055	2.7279	2.7105
NM_009543	Rnf103	ring finger pr	22644	0.6952	2.5889	3.3765	3.5078
NM_009543	Rnf103	ring finger pr	22644	0.6952	2.5889	3.3765	3.5078
NM_009543	Rnf103	ring finger pr	22644	0.5656	2.2511	4.2324	3.5201
NM_009506	Vegfc	vascular endo	22341	0.5665	2.4438	2.228	1.5654
NM_009506	Vegfc	vascular endo	22341	0.8832	2.3344	4.0771	3.1101
NM_009506	Vegfc	vascular endo	22341	0.259	2.0903	1.4392	1.5654
NM_009437	Tst	thiosulfate su	22117	0.5316	2.4616	2.4696	4.1736
NM_009437	Tst	thiosulfate su	22117	0.1008	2.2823	2.0143	4.8584
NM_009437	Tst	thiosulfate su	22117	0.1008	2.2823	2.0143	4.8584
NM_009437	Tst	thiosulfate su	22117	0.1008	2.2823	2.0143	4.8584
NM_009437	Tst	thiosulfate su	22117	0.4059	2.0373	1.8208	3.4864
NM_009328	Tcf15	transcription	21407	0.3352	2.3084	1.2022	1.4592
NM_009328	Tcf15	transcription	21407	0.4981	2.3016	1.1604	1.2648
NM_009328	Tcf15	transcription	21407	0.4982	2.3016	1.5995	1.9245
NM_009328	Tcf15	transcription	21407	0.7518	2.1746	3.4935	3.078
NM_009328	Tcf15	transcription	21407	0.4162	2.0299	1.4011	1.6921
NM_009271	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_009271	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_009271	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_009271	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_009208	Slc4a3	solute carrier	20536	0.6497	3.3606	0.888	1.9293
NM_009208	Slc4a3	solute carrier	20536	0.6497	3.3606	0.888	1.9293
NM_009208	Slc4a3	solute carrier	20536	0.8303	2.9326	1.0169	1.6687
NM_009208	Slc4a3	solute carrier	20536	0.9051	2.9326	1.0169	1.6687
NM_009208	Slc4a3	solute carrier	20536	0.7694	2.5724	1.1224	2.1894
NM_009208	Slc4a3	solute carrier	20536	0.7694	2.5724	1.1224	2.1894
NM_009208	Slc4a3	solute carrier	20536	0.7694	2.5724	1.1224	2.1894
NM_009194	Slc12a2	solute carrier	20496	0.806	2.3983	2.59	2.0883
NM_009194	Slc12a2	solute carrier	20496	0.806	2.3983	2.5549	2.0883
NM_009194	Slc12a2	solute carrier	20496	0.806	2.3983	2.5549	2.0883
NM_009066	Ring1	ring finger pr	19763	0.8663	2.6691	3.0872	2.5826
NM_009066	Ring1	ring finger pr	19763	0.7179	2.5332	1.9223	1.2215
NM_009066	Ring1	ring finger pr	19763	0.7179	2.5332	1.9223	1.2215
NM_009066	Ring1	ring finger pr	19763	0.7179	2.2393	1.1082	1.2215
NM_008963	Ptgds	prostaglandin	19215	0.9593	3.2288	1.2535	1.1646
NM_008963	Ptgds	prostaglandin	19215	0.7996	2.7153	1.2535	1.1646
NM_008963	Ptgds	prostaglandin	19215	0.3376	2.1073	0.5465	0.482
NM_008858	Prkd1	protein kinas	18760	0.6772	2.3065	3.1381	2.3488
NM_008858	Prkd1	protein kinas	18760	0.6772	2.3065	3.1381	2.3488
NM_008858	Prkd1	protein kinas	18760	0.6772	2.3065	2.581	2.3488
NM_008773	P2ry2	purinergic re	18442	0.7561	3.38	1.2031	2.4825
NM_008773	P2ry2	purinergic re	18442	0.8792	3.0511	1.4233	2.7886
NM_008773	P2ry2	purinergic re	18442	0.633	2.7835	0.8758	2.1426
NM_008773	P2ry2	purinergic re	18442	0.5101	2.1877	0.6065	1.8183
NM_008748	Dusp8	dual specifici	18218	0.8901	2.775	1.7562	3.2708
NM_008748	Dusp8	dual specifici	18218	0.7323	2.3667	1.4832	2.7967
NM_008748	Dusp8	dual specifici	18218	0.5743	2.2028	1.2092	2.3209
NM_008696	Map4k4	mitogen-acti	26921	0.9919	3.4024	1.6368	3.0772
NM_008696	Map4k4	mitogen-acti	26921	0.5154	3.3803	1.6368	1.9825

NM_008696	Map4k4	mitogen-acti	26921	0.1011	2.2328	0.8337	1.1014
NM_008696	Map4k4	mitogen-acti	26921	0.1011	2.2328	0.8337	1.1014
NM_008696	Map4k4	mitogen-acti	26921	0.1011	2.2328	0.8337	0.888
NM_008696	Map4k4	mitogen-acti	26921	0.1011	2.2328	0.8337	0.888
NM_008653	Mybpc3	myosin bindi	17868	0.654	2.4843	0.589	1.3162
NM_008653	Mybpc3	myosin bindi	17868	0.4198	2.0728	0.3085	1.0558
NM_008653	Mybpc3	myosin bindi	17868	0.4198	2.0529	0.1156	1.0558
NM_008551	Mapkapk2	MAP kinase- δ	17164	0.7399	2.4804	4.4933	2.9743
NM_008551	Mapkapk2	MAP kinase- δ	17164	0.7399	2.4804	4.4933	2.9743
NM_008551	Mapkapk2	MAP kinase- δ	17164	0.7399	2.4804	4.4933	2.9743
NM_008551	Mapkapk2	MAP kinase- δ	17164	0.5589	2.0694	3.9927	2.6323
NM_008542	Smad6	MAD homolo	17130	0.8684	2.376	1.9389	1.74
NM_008542	Smad6	MAD homolo	17130	0.8684	2.376	2.3753	1.74
NM_008542	Smad6	MAD homolo	17130	0.91	2.376	2.4317	1.9883
NM_008542	Smad6	MAD homolo	17130	0.91	2.376	2.4317	1.9883
NM_008528	Blnk	B-cell linker	17060	0.7363	3.0459	2.0428	1.6569
NM_008528	Blnk	B-cell linker	17060	0.4085	2.4322	0.5539	0.3245
NM_008528	Blnk	B-cell linker	17060	0.4085	2.4322	0.5539	0.158
NM_008528	Blnk	B-cell linker	17060	0.4143	2.4322	1.1488	0.8491
NM_008422	Kcnc3	potassium vo	16504	0.8094	2.9461	2.6858	2.2977
NM_008422	Kcnc3	potassium vo	16504	0.5526	2.5152	2.106	1.9528
NM_008422	Kcnc3	potassium vo	16504	0.4133	2.0826	1.5286	1.6067
NM_008393	Irx3	Iroquois relat	16373	0.9969	5.2396	2.2635	3.8776
NM_008393	Irx3	Iroquois relat	16373	0.3635	4.3916	2.0441	4.7186
NM_008393	Irx3	Iroquois relat	16373	0.1479	3.0822	2.5273	3.8776
NM_008393	Irx3	Iroquois relat	16373	0.7819	2.2664	1.909	3.0063
NM_008393	Irx3	Iroquois relat	16373	0.1479	2.2181	2.5273	3.8776
NM_008393	Irx3	Iroquois relat	16373	0.1479	2.2181	2.4189	4.1906
NM_008385	Inpp5b	inositol poly	16330	0.7154	2.4447	1.2913	1.3518
NM_008385	Inpp5b	inositol poly	16330	0.8036	2.1391	1.7123	1.7887
NM_008385	Inpp5b	inositol poly	16330	0.8036	2.1391	1.7123	1.7887
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2969	1.8678	4.1909
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2969	1.8678	4.1909
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2969	1.8678	4.1909
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2969	1.8678	4.1909
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2935	1.632	4.3314
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2935	1.632	4.3314
NM_008342	Igfbp2	insulin-like gr	16008	0.6828	3.2935	1.632	4.3314
NM_008342	Igfbp2	insulin-like gr	16008	0.8273	3.2935	2.4081	4.4479
NM_008342	Igfbp2	insulin-like gr	16008	0.5101	2.9212	1.9686	3.7218
NM_008324	Ido1	indoleamine	15930	0.9682	2.1907	1.8134	2.2804
NM_008324	Ido1	indoleamine	15930	0.9682	2.1907	1.8134	1.9559
NM_008324	Ido1	indoleamine	15930	0.9682	2.1907	1.8134	2.2804
NM_008315	Htr7	5-hydroxytry	15566	0.8505	2.4565	2.609	1.9201
NM_008315	Htr7	5-hydroxytry	15566	0.9535	2.4565	2.9256	1.9201
NM_008315	Htr7	5-hydroxytry	15566	0.9414	2.3998	0.4973	0.4143
NM_008315	Htr7	5-hydroxytry	15566	0.7855	2.2719	0.4635	0.3336
NM_008277	Hpd	4-hydroxyph	15445	0.8601	2.6267	1.4171	1.6855
NM_008277	Hpd	4-hydroxyph	15445	0.8601	2.6267	1.4171	1.6855
NM_008277	Hpd	4-hydroxyph	15445	0.7063	2.2381	1.1891	1.4218
NM_008276	Hoxd8	homeobox D	15437	0.4742	2.3408	1.0142	1.9014
NM_008276	Hoxd8	homeobox D	15437	0.4742	2.3408	1.0142	1.9014
NM_008276	Hoxd8	homeobox D	15437	0.495	2.3408	1.4158	1.948

NM_008276	Hoxd8	homeobox D	15437	0.495	2.3408	1.0142	1.948
NM_008276	Hoxd8	homeobox D	15437	0.495	2.3408	1.0427	1.948
NM_008276	Hoxd8	homeobox D	15437	0.4742	2.3013	1.0142	1.9014
NM_008268	Hoxb5	homeobox B	15413	0.5298	2.8865	1.8603	3.0518
NM_008268	Hoxb5	homeobox B	15413	0.4443	2.5536	1.6346	2.5692
NM_008268	Hoxb5	homeobox B	15413	0.5168	2.3503	1.4084	2.0872
NM_008268	Hoxb5	homeobox B	15413	0.0008	2.109	1.3361	1.928
NM_008268	Hoxb5	homeobox B	15413	0.0008	2.109	1.2356	1.928
NM_008268	Hoxb5	homeobox B	15413	0.0008	2.109	1.3712	1.928
NM_008268	Hoxb5	homeobox B	15413	0.0233	2.109	1.1577	1.4778
NM_008268	Hoxb5	homeobox B	15413	0.1341	2.109	1.1577	1.4778
NM_008266	Hoxb1	homeobox B	15407	0.4589	2.4227	2.7288	3.3644
NM_008266	Hoxb1	homeobox B	15407	0.4589	2.4227	2.7288	3.3644
NM_008266	Hoxb1	homeobox B	15407	0.4589	2.2062	2.7288	3.0062
NM_008266	Hoxb1	homeobox B	15407	0.4589	2.2062	1.6977	1.9241
NM_008264	Hoxa13	homeobox A	15398	0.9502	3.2759	3.1584	2.6366
NM_008264	Hoxa13	homeobox A	15398	0.9459	3.1625	3.7827	2.6523
NM_008264	Hoxa13	homeobox A	15398	0.5285	2.1703	2.6372	1.7878
NM_008264	Hoxa13	homeobox A	15398	0.3315	2.1463	2.0493	1.6229
NM_008213	Hand1	heart and ne	15110	0.0265	3.0259	2.8309	3.7368
NM_008213	Hand1	heart and ne	15110	0.0265	3.0259	2.8309	3.7368
NM_008213	Hand1	heart and ne	15110	0.0403	2.085	1.9843	3.2436
NM_008213	Hand1	heart and ne	15110	0.0403	2.085	1.8907	3.2436
NM_008213	Hand1	heart and ne	15110	0.0265	2.0505	2.0805	3.1901
NM_008213	Hand1	heart and ne	15110	0.0265	2.0505	1.7203	3.1901
NM_008213	Hand1	heart and ne	15110	0.3455	2.0505	2.0805	3.1901
NM_008173	Nr3c1	nuclear receg	14815	0.8827	2.6504	5.1427	3.5166
NM_008173	Nr3c1	nuclear receg	14815	0.7253	2.3422	4.7055	3.1179
NM_008173	Nr3c1	nuclear receg	14815	0.9495	2.0407	3.7242	2.3461
NM_008170	Grin2a	glutamate re	14811	0.5511	2.5663	2.2612	2.3445
NM_008170	Grin2a	glutamate re	14811	0.5511	2.5663	1.5346	2.2489
NM_008170	Grin2a	glutamate re	14811	0.5511	2.5663	1.5346	2.2489
NM_008170	Grin2a	glutamate re	14811	0.9737	2.5663	2.2612	2.4393
NM_008059	G0s2	G0/G1 switch	14373	0.5638	2.7729	1.3666	2.1528
NM_008059	G0s2	G0/G1 switch	14373	0.5638	2.7729	1.3666	2.6098
NM_008059	G0s2	G0/G1 switch	14373	0.5638	2.7729	1.3666	2.3346
NM_008059	G0s2	G0/G1 switch	14373	0.4296	2.4519	1.1925	2.1825
NM_008059	G0s2	G0/G1 switch	14373	0.416	2.1385	1.0591	2.9679
NM_008053	Fxr1	fragile X men	14359	0.6871	2.4714	3.8338	2.9784
NM_008053	Fxr1	fragile X men	14359	0.8367	2.4206	3.5204	2.8338
NM_008053	Fxr1	fragile X men	14359	0.4594	2.0615	3.2547	2.5049
NM_008034	Folr1	folate recept	14275	0.937	2.0397	0.9466	1.6412
NM_008034	Folr1	folate recept	14275	0.937	2.0397	0.9466	1.6412
NM_008034	Folr1	folate recept	14275	0.937	2.02	1.03	1.7591
NM_008034	Folr1	folate recept	14275	0.937	2.02	1.03	1.7222
NM_008034	Folr1	folate recept	14275	0.937	2.02	0.9466	1.6412
NM_008034	Folr1	folate recept	14275	0.937	2.02	0.9466	1.6412
NM_007993	Fbn1	fibrillin 1	14118	0.8057	3.0323	4.0001	2.3368
NM_007993	Fbn1	fibrillin 1	14118	0.9827	2.4654	3.3491	3.4383
NM_007993	Fbn1	fibrillin 1	14118	0.6793	2.3943	3.3491	3.4383
NM_007993	Fbn1	fibrillin 1	14118	0.8057	2.3943	3.0649	2.281
NM_007993	Fbn1	fibrillin 1	14118	0.5775	2.1129	2.8296	3.0479

NM_007988	Fasn	fatty acid syn	14104	0.9666	2.4208	2.882	2.816
NM_007988	Fasn	fatty acid syn	14104	0.9666	2.4208	2.882	2.816
NM_007988	Fasn	fatty acid syn	14104	0.7221	2.1027	2.2054	2.1504
NM_007911	Efnb3	ephrin B3	13643	0.8716	2.3298	2.419	3.3962
NM_007911	Efnb3	ephrin B3	13643	0.9325	2.2681	2.0525	3.3028
NM_007911	Efnb3	ephrin B3	13643	0.5571	2.1115	2.4126	2.6184
NM_007910	Efna4	ephrin A4	13639	0.7625	2.6237	1.8626	2.6699
NM_007910	Efna4	ephrin A4	13639	0.7131	2.5964	1.5754	2.2756
NM_007910	Efna4	ephrin A4	13639	0.5582	2.1514	1.3184	1.8798
NM_007771	Cry1	cryptochrom	12952	0.5679	2.7128	2.9876	2.0953
NM_007771	Cry1	cryptochrom	12952	0.5298	2.2248	3.2884	1.9627
NM_007771	Cry1	cryptochrom	12952	0.2501	2.0644	2.2935	1.5521
NM_007760	Crat	carnitine ace	12908	0.951	2.5576	2.7162	1.8007
NM_007760	Crat	carnitine ace	12908	0.951	2.5576	2.7162	1.8007
NM_007760	Crat	carnitine ace	12908	0.951	2.5576	2.7162	1.8007
NM_007682	Cenpb	centromere g	12616	0.8737	3.9091	4.4208	4.922
NM_007682	Cenpb	centromere g	12616	0.8737	3.9091	4.4208	5.1134
NM_007682	Cenpb	centromere g	12616	0.8737	3.9091	4.4208	5.0125
NM_007682	Cenpb	centromere g	12616	0.9166	3.5095	3.7702	4.2109
NM_007682	Cenpb	centromere g	12616	0.6192	3.0642	3.1194	3.4992
NM_007682	Cenpb	centromere g	12616	0.2802	2.6745	4.4208	3.6123
NM_007625	Cbx4	chromobox h	12418	0.7673	2.858	1.5997	2.7887
NM_007625	Cbx4	chromobox h	12418	0.1929	2.1084	0.7932	1.3292
NM_007625	Cbx4	chromobox h	12418	0.9692	2.0616	2.0934	1.5723
NM_007614	Ctnnb1	catenin (cadh	12387	0.9194	2.3144	3.0811	3.3323
NM_007614	Ctnnb1	catenin (cadh	12387	0.9194	2.3144	2.6662	2.3212
NM_007614	Ctnnb1	catenin (cadh	12387	0.9194	2.3144	2.6264	2.1308
NM_007566	Birc6	baculoviral IA	12211	0.976	2.1023	2.1609	2.2758
NM_007566	Birc6	baculoviral IA	12211	0.976	2.1023	2.1609	2.2758
NM_007566	Birc6	baculoviral IA	12211	0.976	2.1023	2.1609	2.2758
NM_007552	Bmi1	Bmi1 polycor	12151	0.9873	2.6188	3.717	3.8792
NM_007552	Bmi1	Bmi1 polycor	12151	0.8069	2.2589	2.8959	2.9276
NM_007552	Bmi1	Bmi1 polycor	12151	0.9988	2.0823	4.3056	3.8552
NM_007528	Bcl6b	B-cell CLL/lyr	12029	0.7971	3.2605	2.5937	3.0752
NM_007528	Bcl6b	B-cell CLL/lyr	12029	0.7971	3.2605	1.5882	2.2192
NM_007528	Bcl6b	B-cell CLL/lyr	12029	0.6827	2.8886	1.2919	1.956
NM_007528	Bcl6b	B-cell CLL/lyr	12029	0.5684	2.5158	1.3366	1.6922
NM_007528	Bcl6b	B-cell CLL/lyr	12029	0.4544	2.1419	0.9844	1.4277
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.7477	2.2477	3.1712
NM_007496	Zfx3	zinc finger hc	11906	0.7784	3.2413	1.8662	2.6738
NM_007496	Zfx3	zinc finger hc	11906	0.7784	3.2413	1.8662	2.6738
NM_007496	Zfx3	zinc finger hc	11906	0.9677	3.2413	2.4408	3.639
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.2136	1.4999	2.5511
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.2136	1.4999	2.5511
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.2136	1.4999	2.5511
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.2136	1.4999	2.5511
NM_007496	Zfx3	zinc finger hc	11906	0.9041	3.2136	1.4999	2.5511
NM_007496	Zfx3	zinc finger hc	11906	0.7784	2.8466	1.8662	2.4764
NM_007496	Zfx3	zinc finger hc	11906	0.0002	2.661	1.692	4.3588
NM_007496	Zfx3	zinc finger hc	11906	0.0825	2.661	1.4999	2.9458
NM_007496	Zfx3	zinc finger hc	11906	0.0001	2.3915	1.4839	3.7679
NM_007496	Zfx3	zinc finger hc	11906	0.0001	2.3517	1.3119	2.4764
NM_007496	Zfx3	zinc finger hc	11906	0.0001	2.3517	1.4839	3.8722

NM_007496	Zfhx3	zinc finger hc	11906	0.0191	2.3517	1.3119	2.4764
NM_007496	Zfhx3	zinc finger hc	11906	0.8262	2.151	3.1905	2.2317
NM_007496	Zfhx3	zinc finger hc	11906	0.8218	2.0737	3.2073	2.8457
NM_007478	Arf3	ADP-ribosyla	11842	0.9012	3.3681	4.2361	3.6946
NM_007478	Arf3	ADP-ribosyla	11842	0.9012	2.7764	3.2424	2.8142
NM_007478	Arf3	ADP-ribosyla	11842	0.9012	2.7764	2.9504	2.4946
NM_007478	Arf3	ADP-ribosyla	11842	0.2984	2.2227	2.9504	2.4946
NM_007471	App	amyloid beta	11820	0.5785	2.2894	1.5334	2.8871
NM_007471	App	amyloid beta	11820	0.6324	2.2894	2.1161	1.9618
NM_007471	App	amyloid beta	11820	0.6324	2.2894	2.1161	1.9618
NM_007471	App	amyloid beta	11820	0.6324	2.2894	1.2066	1.9618
NM_007471	App	amyloid beta	11820	0.8777	2.2894	2.1161	1.9618
NM_007471	App	amyloid beta	11820	0.8777	2.2894	2.1161	1.9618
NM_007405	Adcy6	adenylate cyc	11512	0.5946	2.7652	1.8386	1.6047
NM_007405	Adcy6	adenylate cyc	11512	0.9795	2.7652	2.8736	2.4798
NM_007405	Adcy6	adenylate cyc	11512	0.9795	2.7652	1.9877	2.3964
NM_007405	Adcy6	adenylate cyc	11512	0.5946	2.0118	1.4513	0.8192
NM_007405	Adcy6	adenylate cyc	11512	0.9934	2.0118	2.2086	1.6177
NM_0011596	Rnpep	arginyl aminc	215615	0.9377	2.702	3.0556	2.6839
NM_0011596	Rnpep	arginyl aminc	215615	0.9219	2.2202	1.9622	1.588
NM_0011596	Rnpep	arginyl aminc	215615	0.8084	2.1407	2.6614	2.2473
NM_0011458	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.6704	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.6704	2.3251	1.3443	1.8424
NM_0011458	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.4609	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.6704	2.5734	2.2897	2.7639
NM_0011458	Gse1	genetic supp	382034	0.6704	2.3251	1.3443	1.8424
NM_0011456	Gm1661	predicted ger	381544	0.9752	3.0368	0.9733	0.9185
NM_0011456	Gm1661	predicted ger	381544	0.9623	2.6396	1.24	1.1781
NM_0011456	Gm1661	predicted ger	381544	0.8289	2.4534	1.24	0.8991
NM_0011456	Gm1661	predicted ger	381544	0.8289	2.4534	1.24	0.8991
NM_0011456	Gm1661	predicted ger	381544	0.8289	2.4534	1.24	0.8991
NM_0011456	Gm1661	predicted ger	381544	0.842	2.3257	0.8403	0.7146
NM_0011456	Gm1661	predicted ger	381544	0.6971	2.1315	1.2234	0.7591
NM_0011456	Gm1661	predicted ger	381544	0.7087	2.0187	0.7072	0.5964
NM_0011438	Pde2a	phosphodies	207728	0.8154	2.779	1.1772	0.5184
NM_0011438	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NM_0011438	Pde2a	phosphodies	207728	0.4603	2.0325	0.6968	0.1952
NM_0011350	Ppp2r5c	protein phos	26931	0.5257	2.0967	3.5927	3.0034
NM_0011350	Ppp2r5c	protein phos	26931	0.5257	2.0967	3.0992	2.9551
NM_0011350	Ppp2r5c	protein phos	26931	0.5257	2.0967	3.0992	2.9551
NM_0011310	D630003M2	RIKEN cDNA	228846	0.2175	3.0688	1.0263	3.3459
NM_0011310	D630003M2	RIKEN cDNA	228846	0.2175	2.9128	1.0263	2.8689
NM_0011310	D630003M2	RIKEN cDNA	228846	0.1266	2.3642	0.7491	3.1174
NM_0011310	D630003M2	RIKEN cDNA	228846	0.3946	2.0783	0.6103	2.6637
NM_0011310	D630003M2	RIKEN cDNA	228846	0.3946	2.0783	0.6103	2.6637
NM_0011273	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_0011273	Snx10	sorting nexin	71982	0.2638	2.1385	0.3316	0.0237
NM_0011273	Snx10	sorting nexin	71982	0.7116	2.1385	0.6273	0.1272
NM_0011273	Snx10	sorting nexin	71982	0.3922	2.0955	0.4354	0.0658
NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535

NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535
NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535
NM_0011226	Zcchc2	zinc finger, C	227449	0.69	2.1029	3.4209	2.4939
NM_0011226	Zcchc2	zinc finger, C	227449	0.7352	2.1029	3.4209	2.4603
NM_0011226	Zcchc2	zinc finger, C	227449	0.7352	2.1029	3.6676	2.6644
NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535
NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535
NM_0011226	Zcchc2	zinc finger, C	227449	0.8727	2.7468	4.789	3.6535
NM_0011226	Zcchc2	zinc finger, C	227449	0.69	2.1029	3.4209	2.4939
NM_0011226	Zcchc2	zinc finger, C	227449	0.7352	2.1029	3.4209	2.4603
NM_0011226	Zcchc2	zinc finger, C	227449	0.7352	2.1029	3.6676	2.6644
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.3832
NM_001122657				0.9311	2.0372	0.8148	1.4189
NM_0011226	Cdhr4	cadherin-rela	69398	0.7485	2.6521	0.4319	1.1061
NM_0011226	Cdhr4	cadherin-rela	69398	0.7485	2.6521	0.4319	1.1061
NM_0011226	Cdhr4	cadherin-rela	69398	0.7485	2.6521	0.4319	1.1061
NM_0011226	Cdhr4	cadherin-rela	69398	0.7485	2.6521	0.4319	1.1061
NM_0011226	Cdhr4	cadherin-rela	69398	0.6393	2.3438	0.3576	0.9592
NM_0011146	Fnbp1l	formin bindir	214459	0.8216	2.2226	2.8735	2.7637
NM_0011146	Fnbp1l	formin bindir	214459	0.8216	2.2226	2.8735	2.4936
NM_0011146	Fnbp1l	formin bindir	214459	0.86	2.2226	2.8735	2.6202
NM_0011143	Pank1	pantothenate	75735	0.9339	3.0719	5.4956	3.9594
NM_0011143	Pank1	pantothenate	75735	0.5885	2.8823	5.4248	3.9594
NM_0011143	Pank1	pantothenate	75735	0.9339	2.0208	4.0284	2.7168
NM_0011143	Pank1	pantothenate	75735	0.9339	2.0208	4.0284	2.7168
NM_0011139	Ltbp4	latent transfo	108075	0.5105	2.1137	0.8377	0.1644
NM_0011139	Ltbp4	latent transfo	108075	0.5105	2.1137	0.8377	0.1644
NM_0011139	Ltbp4	latent transfo	108075	0.9814	2.1137	0.8377	0.1644
NM_0011131	Fxr1	fragile X men	14359	0.6871	2.4714	3.8338	2.9784
NM_0011131	Fxr1	fragile X men	14359	0.8367	2.4206	3.5204	2.8338
NM_0011131	Fxr1	fragile X men	14359	0.4594	2.0615	3.2547	2.5049
NM_0011131	Fxr1	fragile X men	14359	0.6871	2.4714	3.8338	2.9784
NM_0011131	Fxr1	fragile X men	14359	0.8367	2.4206	3.5204	2.8338
NM_0011131	Fxr1	fragile X men	14359	0.4594	2.0615	3.2547	2.5049
NM_0011111	Gm505	predicted gen	244666	0.8663	3.3153	5.0159	4.5036
NM_0011111	Gm505	predicted gen	244666	0.8663	2.7371	5.0159	4.5036
NM_0011111	Gm505	predicted gen	244666	0.8378	2.5452	3.5432	2.4198
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5201	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	2.047	2.0417
NM_0011096	9030409G11	RIKEN cDNA	71529	0.9786	2.025	1.5704	2.3611
NM_0010992	Grrp1	glycine/argin	72690	0.9472	2.9463	2.3472	3.7546
NM_0010992	Grrp1	glycine/argin	72690	0.7368	2.7394	2.0707	3.7578
NM_0010992	Grrp1	glycine/argin	72690	0.7368	2.0303	1.6757	2.7855
NM_0010982	Tead3	TEA domain t	21678	0.7904	3.6133	3.3024	4.0039
NM_0010982	Tead3	TEA domain t	21678	0.2266	2.4267	2.1682	4.0039
NM_0010982	Tead3	TEA domain t	21678	0.1293	2.099	2.0281	4.0039
NM_0010982	Tead3	TEA domain t	21678	0.1293	2.099	2.0281	4.2518

NM_0010839	Nr3c2	nuclear rece	110784	0.6489	2.2458	1.9282	1.3257
NM_0010839	Nr3c2	nuclear rece	110784	0.6489	2.2458	1.9282	1.2593
NM_0010839	Nr3c2	nuclear rece	110784	0.6489	2.2458	1.9282	1.2593
NM_0010819	Gm1337	predicted ge	383787	0.8409	2.4556	1.9617	2.203
NM_0010819	Gm1337	predicted ge	383787	0.8409	2.242	2.6753	1.9478
NM_0010819	Gm1337	predicted ge	383787	0.9595	2.0478	1.2661	1.9152
NM_0010814	Chd7	chromodoma	320790	0.5946	2.6389	2.9577	2.3392
NM_0010814	Chd7	chromodoma	320790	0.9564	2.3861	2.9125	1.8403
NM_0010814	Chd7	chromodoma	320790	0.5405	2.1472	2.9125	1.8403
NM_0010813	Mil3	myeloid/lym	231051	0.469	2.1088	3.0966	2.345
NM_0010813	Mil3	myeloid/lym	231051	0.6804	2.1088	3.7814	2.345
NM_0010813	Mil3	myeloid/lym	231051	0.6804	2.1088	3.7814	2.345
NM_0010813	Mil3	myeloid/lym	231051	0.6804	2.032	3.7814	2.345
NM_0010813	Mil3	myeloid/lym	231051	0.6804	2.032	3.7814	2.345
NM_0010811	Chsy1	chondroitin s	269941	0.8671	3.354	3.189	2.9224
NM_0010811	Chsy1	chondroitin s	269941	0.668	2.8339	2.6894	2.4559
NM_0010811	Chsy1	chondroitin s	269941	0.9529	2.1667	4.0479	3.8772
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.9676	2.307	2.3675	2.5995
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.9676	2.307	2.3284	2.5995
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.9676	2.0977	2.3675	2.8591
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.8352	2.0346	2.0538	2.2967
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.8352	2.0346	2.0538	2.2967
NM_0010811	4931429I11R	RIKEN cDNA	70989	0.9121	2.0346	2.0538	2.2967
NM_0010810	Srgap1	SLIT-ROBO R	117600	0.9367	2.2723	2.6448	2.1624
NM_0010810	Srgap1	SLIT-ROBO R	117600	0.9367	2.2723	2.6448	2.1624
NM_0010810	Srgap1	SLIT-ROBO R	117600	0.9367	2.2723	2.6448	2.1624
NM_0010809	Lrp8	low density li	16975	0.547	2.7412	1.8534	1.3931
NM_0010809	Lrp8	low density li	16975	0.547	2.7285	1.8362	1.3931
NM_0010809	Lrp8	low density li	16975	0.547	2.7285	0.9399	1.0333
NM_0010480	Hnnpab	heterogeneo	15384	0.803	2.514	4.0435	2.9569
NM_0010480	Hnnpab	heterogeneo	15384	0.3757	2.1169	3.1855	2.3981
NM_0010480	Hnnpab	heterogeneo	15384	0.5347	2.0399	3.5357	2.4199
NM_0010459	Cyb5d1	cytochrome b	327951	0.3473	2.1578	1.9277	2.0515
NM_0010459	Cyb5d1	cytochrome b	327951	0.5276	2.1578	1.9277	2.0515
NM_0010459	Cyb5d1	cytochrome b	327951	0.979	2.0857	1.742	1.94
NM_0010459	Cyb5d1	cytochrome b	327951	0.979	2.0857	1.742	1.94
NM_0010406	Rspo4	R-spondin fa	228770	0.9229	3.682	1.5581	2.0615
NM_0010406	Rspo4	R-spondin fa	228770	0.9229	3.682	1.5581	2.0615
NM_0010406	Rspo4	R-spondin fa	228770	0.716	3.2661	1.3639	1.8148
NM_0010406	Rspo4	R-spondin fa	228770	0.716	3.2661	1.3639	1.8148
NM_0010406	Rspo4	R-spondin fa	228770	0.716	3.2661	1.3639	1.8148
NM_0010406	Rspo4	R-spondin fa	228770	0.7878	2.4841	1.5581	1.362
NM_0010406	Clmn	calmin	94040	0.186	2.8185	2.3427	2.2764
NM_0010406	Clmn	calmin	94040	0.186	2.8185	2.3427	1.8748
NM_0010406	Clmn	calmin	94040	0.186	2.8185	2.3081	2.1484
NM_0010406	Clmn	calmin	94040	0.186	2.8185	2.3081	1.8898
NM_0010398	Strn4	striatin, calm	97387	0.4253	3.4643	3.4962	5.5486
NM_0010398	Strn4	striatin, calm	97387	0.7744	3.0711	2.9586	5.1886
NM_0010398	Strn4	striatin, calm	97387	0.6369	2.2817	1.9551	4.0417
NM_0010399	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792
NM_0010399	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792
NM_0010399	Ivns1abp	influenza viru	117198	0.6042	2.2825	4.5072	3.8058
NM_0010399	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792

NM_0010395	Ivns1abp	influenza viru	117198	0.5909	2.2825	4.0974	3.792
NM_0010395	Ivns1abp	influenza viru	117198	0.6042	2.2825	4.5072	3.8058
NM_0010386	Olfm1	olfactomedin	56177	0.74	2.0302	2.732	2.1464
NM_0010386	Olfm1	olfactomedin	56177	0.74	2.0302	2.732	2.1464
NM_0010386	Olfm1	olfactomedin	56177	0.3138	2.0125	1.7003	1.2305
NM_0010386	Olfm1	olfactomedin	56177	0.74	2.0302	2.732	2.1464
NM_0010386	Olfm1	olfactomedin	56177	0.74	2.0302	2.732	2.1464
NM_0010386	Olfm1	olfactomedin	56177	0.3138	2.0125	1.7003	1.2305
NM_0010377	Creb1	cAMP respon	12912	0.7853	2.7177	4.4193	3.419
NM_0010377	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_0010377	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_0010377	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_0010377	Creb1	cAMP respon	12912	0.5355	2.2432	4.1706	3.8195
NM_0010366	Atp2b2	ATPase, Ca++	11941	0.6472	3.4286	2.157	1.502
NM_0010366	Atp2b2	ATPase, Ca++	11941	0.8589	3.1966	2.1614	1.6112
NM_0010366	Atp2b2	ATPase, Ca++	11941	0.4799	2.8993	1.7871	1.217
NM_0010366	Atp2b2	ATPase, Ca++	11941	0.6812	2.6594	1.7832	1.3175
NM_0010366	Atp2b2	ATPase, Ca++	11941	0.3495	2.3703	1.4184	0.9336
NM_0010339	Ube3a	ubiquitin pro	22215	0.898	2.6647	2.556	1.9355
NM_0010339	Ube3a	ubiquitin pro	22215	0.8248	2.169	2.0758	1.545
NM_0010339	Ube3a	ubiquitin pro	22215	0.808	2.0644	3.0367	2.3271
NM_0010338	Adamts17	a disintegrin-	233332	0.8157	2.1496	2.7894	1.5949
NM_0010338	Adamts17	a disintegrin-	233332	0.8157	2.1496	1.8347	1.5949
NM_0010338	Adamts17	a disintegrin-	233332	0.8157	2.1496	1.8347	1.5949
NM_0010338	Zfp872	zinc finger pr	619310	0.9808	2.3541	2.0511	1.6029
NM_0010338	Zfp872	zinc finger pr	619310	0.9808	2.3541	1.7414	1.6029
NM_0010338	Zfp872	zinc finger pr	619310	0.7658	2.2222	2.4426	1.8957
NM_0010337	Gm1661	predicted ge	381544	0.9752	3.0368	0.9733	0.9185
NM_0010337	Gm1661	predicted ge	381544	0.9623	2.6396	1.24	1.1781
NM_0010337	Gm1661	predicted ge	381544	0.8289	2.4534	1.24	0.8991
NM_0010337	Gm1661	predicted ge	381544	0.8289	2.4534	1.24	0.8991
NM_0010337	Gm1661	predicted ge	381544	0.8289	2.4534	1.24	0.8991
NM_0010337	Gm1661	predicted ge	381544	0.842	2.3257	0.8403	0.7146
NM_0010337	Gm1661	predicted ge	381544	0.6971	2.1315	1.2234	0.7591
NM_0010337	Gm1661	predicted ge	381544	0.7087	2.0187	0.7072	0.5964
NM_0010336	Zyg11b	zyg-II homolc	414872	0.8706	2.8276	3.8298	3.2989
NM_0010336	Zyg11b	zyg-II homolc	414872	0.877	2.8276	3.8298	3.2989
NM_0010336	Zyg11b	zyg-II homolc	414872	0.877	2.8276	3.8298	3.2989
NM_0010334	Lrch1	leucine-rich r	380916	0.5418	2.0107	3.9192	2.7679
NM_0010334	Lrch1	leucine-rich r	380916	0.5771	2.0107	4.8425	3.4243
NM_0010334	Lrch1	leucine-rich r	380916	0.5771	2.0107	3.9192	2.7679
NM_0010332	Slc30a10	solute carrier	226781	0.4121	2.3728	4.0007	3.4905
NM_0010332	Slc30a10	solute carrier	226781	0.4121	2.3728	2.7516	2.3243
NM_0010332	Slc30a10	solute carrier	226781	0.2828	2.0936	3.8274	3.1022
NM_0010332	Slc30a10	solute carrier	226781	0.2828	2.0936	2.3065	2.0465
NM_0010332	Prdm6	PR domain co	225518	0.9321	2.0529	2.8797	2.5859
NM_0010332	Prdm6	PR domain co	225518	0.9321	2.0529	2.5468	2.1602
NM_0010332	Prdm6	PR domain co	225518	0.9321	2.0529	2.5468	2.1602
NM_0010331	Slc22a23	solute carrier	73102	0.6419	2.745	2.8679	2.6376
NM_0010331	Slc22a23	solute carrier	73102	0.9633	2.4681	2.2825	2.0858
NM_0010331	Slc22a23	solute carrier	73102	0.477	2.4064	1.8542	2.1599
NM_0010331	Tradd	TNFRSF1A-as	71609	0.9202	3.4008	3.1915	4.5664
NM_0010331	Tradd	TNFRSF1A-as	71609	0.7928	3.3939	2.6915	3.9646

NM_001033	Tradd	TNFRSF1A-as	71609	0.8792	3.0204	1.3797	1.7964
NM_001033	Tradd	TNFRSF1A-as	71609	0.2542	2.5157	1.2615	1.7964
NM_001033	Tradd	TNFRSF1A-as	71609	0.7813	2.5157	1.9275	3.4734
NM_001033	Tradd	TNFRSF1A-as	71609	0.7813	2.5157	1.9275	3.4734
NM_001033	Tradd	TNFRSF1A-as	71609	0.7813	2.5157	1.9275	3.4734
NM_001033	Tradd	TNFRSF1A-as	71609	0.3112	2.2498	3.1915	4.5664
NM_001033	Tradd	TNFRSF1A-as	71609	0.3112	2.2498	3.1915	3.8119
NM_001033	Tradd	TNFRSF1A-as	71609	0.8792	2.1921	0.8114	1.1406
NM_001033	Tradd	TNFRSF1A-as	71609	0.148	2.1865	1.4603	2.5484
NM_001033	Tradd	TNFRSF1A-as	71609	0.148	2.1865	0.7198	1.4263
NM_001033	Tradd	TNFRSF1A-as	71609	0.6552	2.1865	1.4603	2.5484
NM_001029	Mex3a	mex3 homolo	72640	0.9803	3.2108	2.115	3.2887
NM_001029	Mex3a	mex3 homolo	72640	0.9179	3.0952	2.1485	5.22
NM_001029	Mex3a	mex3 homolo	72640	0.9179	3.0952	2.1485	5.22
NM_001029	Mex3a	mex3 homolo	72640	0.7841	2.5282	2.1291	5.22
NM_001029	Mex3a	mex3 homolo	72640	0.7841	2.5282	2.1291	4.9928
NM_001025	Kcnc2	potassium vo	268345	0.183	2.1057	1.0083	0.8826
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.6254	2.1269
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.6254	2.1269
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.6254	2.1269
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.6254	2.1269
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.6254	2.1269
NM_001025	Kcnc2	potassium vo	268345	0.4904	2.0187	1.2614	1.2312
NM_001025	Kcnc2	potassium vo	268345	0.9766	2.0187	1.183	1.875
NM_001025	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_001025	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_001025	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_001025	Src	Rous sarcom	20779	0.8005	2.062	2.9983	2.5031
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.1062
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.1062
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.1062
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.1062
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.2143
NM_001025	Brd2	bromodomain	14312	0.6621	2.4254	4.2219	4.2143
NM_001025	Brd2	bromodomain	14312	0.9311	2.4254	4.9962	4.2143
NM_001025	Brd2	bromodomain	14312	0.9311	2.1083	2.3272	2.0489
NM_001025	Sema3g	sema domain	218877	0.4158	2.3748	0.9161	1.0739
NM_001025	Sema3g	sema domain	218877	0.4158	2.3748	0.3084	0.9498
NM_001025	Sema3g	sema domain	218877	0.4158	2.3748	0.3084	0.9498
NM_001025	Sema3g	sema domain	218877	0.617	2.0954	0.7351	1.4042
NM_001025	Sema3g	sema domain	218877	0.4158	2.0343	0.2967	0.9498
NM_001025	Sema3g	sema domain	218877	0.4158	2.0343	0.2967	0.9498
NM_001025	Sema3g	sema domain	218877	0.4158	2.0343	0.2967	0.9498
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.5893	2.4959	2.42	4.1999
NM_001012	Mdk	midkine	17242	0.4863	2.169	2.102	3.6739
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247
NM_001012	Mdk	midkine	17242	0.7105	2.822	2.7372	4.7247

NM_0010123	Mdk	midkine	17242	0.5893	2.4959	2.42	4.1999
NM_0010123	Mdk	midkine	17242	0.4863	2.169	2.102	3.6739
NM_0010054	Gm347	predicted ge	241289	0.8327	2.6081	4.098	3.3437
NM_0010054	Gm347	predicted ge	241289	0.9344	2.6081	2.8336	2.2024
NM_0010054	Gm347	predicted ge	241289	0.5757	2.181	2.2532	1.7154
NM_0010054	Gm347	predicted ge	241289	0.8327	2.1769	2.8534	2.4361
NM_0010043	Celsr2	cadherin, EG	53883	0.9749	2.4571	2.7545	2.0952
NM_0010043	Celsr2	cadherin, EG	53883	0.879	2.2356	1.2091	0.7799
NM_0010043	Celsr2	cadherin, EG	53883	0.879	2.2356	0.4769	0.5285
NM_0010043	Celsr2	cadherin, EG	53883	0.879	2.2211	0.3866	0.5285
NM_0010043	Celsr2	cadherin, EG	53883	0.9577	2.2211	0.3866	0.5285
NM_0010038	Epb4.1l1	erythrocyte g	13821	0.6964	2.6102	2.344	2.4854
NM_0010038	Epb4.1l1	erythrocyte g	13821	0.7009	2.6102	2.344	2.3145
NM_0010038	Epb4.1l1	erythrocyte g	13821	0.7009	2.6102	2.344	2.3145
NM_0010038	Epb4.1l1	erythrocyte g	13821	0.5069	2.1828	1.8358	1.9561
NM_0010020	Panx2	pannexin 2	406218	0.9451	2.1009	2.7543	2.0002
NM_0010020	Panx2	pannexin 2	406218	0.9451	2.1009	1.7184	1.6485
NM_0010020	Panx2	pannexin 2	406218	0.9451	2.1009	1.3449	1.5916
NM_0010020	Panx2	pannexin 2	406218	0.9451	2.1009	1.3449	1.5916
NM_0010019	Gp1bb	glycoprotein	14724	0.6292	2.7058	2.6295	3.8612
NM_0010019	Gp1bb	glycoprotein	14724	0.2814	2.3919	2.3235	3.4266
NM_0010019	Gp1bb	glycoprotein	14724	0.1138	2.3285	2.6295	3.4633

at E15 versus E18

NM_011311	S100a4	S100 calcium	20198	2.0865	0.1596	0.212	0.1776
NR_002844	Tsix	X (inactive)-s	22097	2.9436	0.8277	1.0499	0.5791
NR_002844	Tsix	X (inactive)-s	22097	2.1482	0.8551	0.7749	0.7813
NR_002844	Tsix	X (inactive)-s	22097	2.1482	0.8551	0.7749	0.7813
NM_194269	Morn2	MORN repea	378462	2.1864	0.5142	0.613	0.62
NM_194269	Morn2	MORN repea	378462	2.0202	0.7141	0.1942	0.4551
NM_194269	Morn2	MORN repea	378462	2.5348	0.7702	0.8193	0.7269
NM_194269	Morn2	MORN repea	378462	2.2908	0.8322	0.2448	0.5418
NM_194269	Morn2	MORN repea	378462	2.2908	0.8322	0.2448	0.5418
NM_178918	Utp15	UTP15, U3 sr	105372	2.5228	0.9466	1.0999	0.8718
NM_178918	Utp15	UTP15, U3 sr	105372	2.4504	0.9466	0.7545	0.5532
NM_178918	Utp15	UTP15, U3 sr	105372	2.4235	0.9466	1.0999	0.8718
NM_178709	Rnf214	ring finger pr	235315	2.036	0.6324	0.763	0.5363
NM_178709	Rnf214	ring finger pr	235315	2.0062	0.7535	0.5438	0.3475
NM_178709	Rnf214	ring finger pr	235315	2.3937	0.8554	0.9256	0.6634
NM_178620	Mfsd11	major facilita	69900	2.5051	0.5101	0.0154	0.0039
NM_178620	Mfsd11	major facilita	69900	2.4096	0.6766	0.587	0.7163
NM_178620	Mfsd11	major facilita	69900	2.8244	0.8258	0.1322	0.2154
NM_178362	Sorbs1	sorbin and SH	20411	2.1088	0.6121	1.1004	0.7546
NM_178362	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_178362	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_177639	Dlgap1	discs, large (L	224997	2.262	0.7357	0.4934	0.7255
NM_177639	Dlgap1	discs, large (L	224997	2.2357	0.7929	0.3902	0.5899
NM_177639	Dlgap1	discs, large (L	224997	2.6239	0.9602	0.4934	0.7255
NM_177639	Dlgap1	discs, large (L	224997	2.6239	0.9602	0.4934	0.7255
NM_177097	D830046C22	RIKEN cDNA	320197	2.099	0.543	0.1137	0.0036
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0.0036

NM_177097	D830046C22	RIKEN cDNA	320197	2.5462	0.6218	0.4608	0.0111
NM_173048	Gga3	golgi associat	260302	2.2092	0.9102	0.5994	0.4127
NM_173048	Gga3	golgi associat	260302	2.2092	0.9102	0.5994	0.4127
NM_173048	Gga3	golgi associat	260302	2.2092	0.946	0.9526	0.4127
NM_172307	Mbtps2	membrane-b	270669	2.6363	0.933	0.9388	1.1027
NM_172307	Mbtps2	membrane-b	270669	2.6363	0.933	0.9388	1.1027
NM_172307	Mbtps2	membrane-b	270669	2.6363	0.933	0.9388	1.1027
NM_172307	Mbtps2	membrane-b	270669	2.6363	0.933	0.9388	1.1027
NM_145487	Prr3	proline-rich p	75210	2.0213	0.9698	0.5142	0.7367
NM_145487	Prr3	proline-rich p	75210	2.0213	0.9698	0.5142	0.7367
NM_145487	Prr3	proline-rich p	75210	2.0213	0.9698	0.5142	0.7367
NM_134002	Csnk1g2	casein kinase	103236	2.5508	0.9144	0.6043	0.6651
NM_134002	Csnk1g2	casein kinase	103236	2.233	0.9144	0.4015	0.3272
NM_134002	Csnk1g2	casein kinase	103236	2.233	0.9144	0.4015	0.3272
NM_030205	Coro7	coronin 7	78885	2.4627	0.8181	0.9503	1.2394
NM_030205	Coro7	coronin 7	78885	2.4627	0.8181	0.9503	1.2394
NM_030205	Coro7	coronin 7	78885	2.4627	0.8181	0.9503	1.3072
NM_029408	lqcd	IQ motif cont	75732	2.0433	0.5726	0.0904	0.4266
NM_029408	lqcd	IQ motif cont	75732	2.0433	0.5726	0.0904	0.4266
NM_029408	lqcd	IQ motif cont	75732	2.512	0.7885	0.1345	0.5211
NM_029408	lqcd	IQ motif cont	75732	2.512	0.7885	0.1345	0.5211
NM_029408	lqcd	IQ motif cont	75732	2.512	0.7885	0.1345	0.5211
NM_029408	lqcd	IQ motif cont	75732	2.0788	0.9288	0.2285	0.2792
NM_029211	Rnf121	ring finger pr	75212	2.2851	0.8463	0.3685	0.6792
NM_029211	Rnf121	ring finger pr	75212	2.2851	0.8463	0.3685	0.6792
NM_029211	Rnf121	ring finger pr	75212	2.0561	0.8463	0.3685	0.6792
NM_029211	Rnf121	ring finger pr	75212	2.6273	0.998	0.4545	0.8086
NM_028709	Btbd11	BTB (POZ) do	74007	2.2749	0.816	0.5803	0.8425
NM_028709	Btbd11	BTB (POZ) do	74007	2.0103	0.816	0.6874	0.8425
NM_028709	Btbd11	BTB (POZ) do	74007	2.0103	0.816	0.6874	0.8425
NM_028709	Btbd11	BTB (POZ) do	74007	2.2922	0.9848	0.9254	1.1093
NM_028709	Btbd11	BTB (POZ) do	74007	2.2922	0.9848	0.9995	1.1093
NM_028469	3110082I17R	RIKEN cDNA	73212	2.099	0.543	0.1137	0.0036
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0.0066
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.1137	0.0036
NM_028469	3110082I17R	RIKEN cDNA	73212	2.0709	0.543	0.476	0.0852
NM_028469	3110082I17R	RIKEN cDNA	73212	2.5462	0.6218	0.4608	0.0111
NM_028469	3110082I17R	RIKEN cDNA	73212	2.6381	0.9938	0.7912	0.5362
NM_027941	Lrrc34	leucine rich r	71827	2.033	0.7941	0.7266	0.6762
NM_027941	Lrrc34	leucine rich r	71827	2.3051	0.9216	0.3011	0.7165
NM_027941	Lrrc34	leucine rich r	71827	2.3051	0.9216	0.3011	0.7165
NM_027712	Dlgap1	discs, large (D	224997	2.262	0.7357	0.4934	0.7255
NM_027712	Dlgap1	discs, large (D	224997	2.2357	0.7929	0.3902	0.5899
NM_027712	Dlgap1	discs, large (D	224997	2.6239	0.9602	0.4934	0.7255
NM_027712	Dlgap1	discs, large (D	224997	2.6239	0.9602	0.4934	0.7255
NM_027285	1700029I01R	RIKEN cDNA	70005	2.8772	0.78	0.7705	0.9172
NM_027285	1700029I01R	RIKEN cDNA	70005	2.8772	0.78	0.7705	0.9172
NM_027285	1700029I01R	RIKEN cDNA	70005	2.8772	0.78	0.7705	0.9172
NM_027231	Polr2f	polymerase (	69833	2.1333	0.6027	0.5078	0.3338

NM_027231	Polr2f	polymerase (	69833	2.3298	0.6826	0.1677	0.1039
NM_027231	Polr2f	polymerase (	69833	2.9163	0.9014	0.4293	0.2086
NM_027045	Gcap14	granule cell a	72972	2.045	0.6075	0.1213	0.5088
NM_027045	Gcap14	granule cell a	72972	2.404	0.7459	0.1713	0.6316
NM_027045	Gcap14	granule cell a	72972	2.5569	0.8843	0.2247	0.7545
NM_027045	Gcap14	granule cell a	72972	2.5569	0.8843	0.3004	0.7545
NM_026866	Disp1	dispatched h	68897	2.5512	0.3624	0.1142	1.1176
NM_026866	Disp1	dispatched h	68897	2.5665	0.8085	0.5029	1.0018
NM_026866	Disp1	dispatched h	68897	3.1617	0.9377	0.2936	0.4432
NM_026866	Disp1	dispatched h	68897	2.9009	0.9377	0.5956	1.1105
NM_026866	Disp1	dispatched h	68897	2.9009	0.9377	0.5956	1.1537
NM_026866	Disp1	dispatched h	68897	2.9009	0.9377	0.5956	1.1537
NM_026866	Disp1	dispatched h	68897	2.9009	0.9377	0.5956	1.1537
NM_026866	Disp1	dispatched h	68897	2.8022	0.9377	0.5956	1.1537
NM_026866	Disp1	dispatched h	68897	2.5113	0.9377	0.2936	0.3153
NM_026816	Gtf2f2	general trans	68705	2.1657	0.8222	0.4278	0.4411
NM_026816	Gtf2f2	general trans	68705	2.5465	0.8431	0.5174	0.2559
NM_026816	Gtf2f2	general trans	68705	2.9234	0.9059	0.7224	0.4025
NM_026816	Gtf2f2	general trans	68705	2.9234	0.9059	0.7224	0.4025
NM_026617	Tmbim4	transmembra	68212	2.3758	0.3537	0.0007	0.3896
NM_026617	Tmbim4	transmembra	68212	3.6356	0.8468	0.2131	1.0838
NM_026617	Tmbim4	transmembra	68212	2.3758	0.8468	0.0361	0.6913
NM_026483	Mphosph10	M-phase pho	67973	2.0992	0.9686	0.5363	0.8429
NM_026483	Mphosph10	M-phase pho	67973	2.0992	0.9686	0.5363	0.8429
NM_026483	Mphosph10	M-phase pho	67973	2.0992	0.9686	0.5363	0.8429
NM_026177	120001118R	RIKEN cDNA	67467	2.0287	0.8259	1.117	0.6343
NM_026177	120001118R	RIKEN cDNA	67467	2.0287	0.8259	1.117	0.6343
NM_026177	120001118R	RIKEN cDNA	67467	2.0287	0.8259	1.117	0.6343
NM_026121	Bag4	BCL2-associa	67384	2.0088	0.5107	0.3322	0.2425
NM_026121	Bag4	BCL2-associa	67384	2.0088	0.5107	0.3322	0.2425
NM_026121	Bag4	BCL2-associa	67384	2.2781	0.6043	0.2391	0.3007
NM_026121	Bag4	BCL2-associa	67384	2.4813	0.8653	0.1892	0.2425
NM_026121	Bag4	BCL2-associa	67384	2.1993	0.9171	0.3599	0.497
NM_025531	Slmo2	slowmo hom	66390	2.3903	0.8685	0.7724	0.6283
NM_025531	Slmo2	slowmo hom	66390	2.6332	0.8915	0.2579	0.239
NM_025531	Slmo2	slowmo hom	66390	2.6332	0.8915	0.3167	0.6514
NM_025531	Slmo2	slowmo hom	66390	2.6332	0.8915	0.3167	0.4632
NM_025531	Slmo2	slowmo hom	66390	2.6332	0.8915	0.3167	0.4632
NM_025531	Slmo2	slowmo hom	66390	2.0217	0.9296	0.4046	0.4245
NM_025443	Pno1	partner of NC	66249	2.2654	0.726	0.4065	0.529
NM_025443	Pno1	partner of NC	66249	2.2654	0.9155	0.8425	0.8492
NM_025443	Pno1	partner of NC	66249	2.2654	0.9155	0.8425	1.1226
NM_025443	Pno1	partner of NC	66249	2.2654	0.9155	0.8425	1.1226
NM_024212	Rpl4	ribosomal pr	67891	2.115	0.4265	0.1644	0.182
NM_024212	Rpl4	ribosomal pr	67891	2.0848	0.9616	0.9645	0.4453
NM_024212	Rpl4	ribosomal pr	67891	2.0848	0.9616	0.9645	0.4453
NM_023196	Pla2g12a	phospholipas	66350	2.3021	0.7234	0.5182	0.1832
NM_023196	Pla2g12a	phospholipas	66350	2.7005	0.9595	0.767	0.3378
NM_023196	Pla2g12a	phospholipas	66350	2.7005	0.9595	0.767	0.3378
NM_019936	Cript	cysteine-rich	56724	2.4709	0.4263	0.4452	0.3233
NM_019936	Cript	cysteine-rich	56724	2.8951	0.6525	0.6762	0.5223
NM_019936	Cript	cysteine-rich	56724	3.3181	0.8839	0.9121	0.7283
NM_012060	Bcap31	B-cell recept	27061	2.1887	0.829	0.2096	0.4057

NM_012060	Bcap31	B-cell recept	27061	2.1887	0.829	0.2096	0.4057
NM_012060	Bcap31	B-cell recept	27061	2.1887	0.829	0.2096	0.4057
NM_011612	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_011612	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_011612	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_011311	S100a4	S100 calcium	20198	2.4519	0.2976	0.3769	0.4296
NM_011311	S100a4	S100 calcium	20198	2.8162	0.5382	0.5525	0.7138
NM_011311	S100a4	S100 calcium	20198	3.1796	0.7995	0.7323	1.0124
NM_011179	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_011179	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_011179	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0
NM_011179	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_011179	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_011179	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_011179	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_009319	Tarbp2	TAR (HIV) RN	21357	2.6434	0.3694	0.1733	0
NM_009319	Tarbp2	TAR (HIV) RN	21357	2.3294	0.6071	0.3252	0.0005
NM_009319	Tarbp2	TAR (HIV) RN	21357	2.31	0.767	0.4047	0
NM_009319	Tarbp2	TAR (HIV) RN	21357	2.6144	0.9821	0.4851	0.0457
NM_009166	Sorbs1	sorbin and SH	20411	2.1088	0.6121	1.1004	0.7546
NM_009166	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_009166	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_001146	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_001146	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_001146	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_001146	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_001136	Chdh	choline dehy	218865	2.1953	0.4261	0.8848	0.5121
NM_001136	Chdh	choline dehy	218865	2.0863	0.8319	0.5556	0.2804
NM_001136	Chdh	choline dehy	218865	2.6723	0.9639	0.6548	0.6473

NM_0011362	Chdh	choline dehy	218865	2.3647	0.9639	0.6548	0.3441
NM_0011362	Chdh	choline dehy	218865	2.3647	0.9639	0.6548	0.3441
NM_0011113	Idh1	isocitrate del	15926	2.2322	0.3917	1.102	1.5277
NM_0011113	Idh1	isocitrate del	15926	2.5275	0.5429	1.2656	1.7409
NM_0011113	Idh1	isocitrate del	15926	2.6539	0.7861	1.2656	2.177
NM_0010839	Gm13139	predicted ge	666532	2.8772	0.78	0.7705	0.9172
NM_0010839	Gm13139	predicted ge	666532	2.8772	0.78	0.7705	0.9172
NM_0010839	Gm13139	predicted ge	666532	2.8772	0.78	0.7705	0.9172
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010396	Eif4e1b	eukaryotic tr	218268	2.3874	0.6588	0.3619	0.311
NM_0010396	Eif4e1b	eukaryotic tr	218268	2.3874	0.6588	0.3619	0.311
NM_0010396	Eif4e1b	eukaryotic tr	218268	2.3874	0.7652	0.3619	0.2233
NM_0010399	Pkig	protein kinas	18769	2.1822	0.4946	0.3544	0.1397
NM_0010399	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_0010399	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_0010399	Pkig	protein kinas	18769	2.1822	0.4946	0.3544	0.1397
NM_0010399	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_0010399	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.6121	1.1004	0.7546
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.6121	1.1004	0.7546
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010332	Eif4e1b	eukaryotic tr	218268	2.3874	0.6588	0.3619	0.311
NM_0010332	Eif4e1b	eukaryotic tr	218268	2.3874	0.6588	0.3619	0.311
NM_0010332	Eif4e1b	eukaryotic tr	218268	2.3874	0.7652	0.3619	0.2233
NM_0010331	1700029J07F	RIKEN cDNA	69479	2.2556	0.4941	0.1329	0.0965
NM_0010331	1700029J07F	RIKEN cDNA	69479	2.7656	0.5982	0.2165	0.0606
NM_0010331	1700029J07F	RIKEN cDNA	69479	2.7656	0.5982	0.2165	0.0606
NM_0010054	Gm996	predicted ge	381353	2.0614	0.9128	0.6835	0.3633
NM_0010054	Gm996	predicted ge	381353	2.0614	0.9128	0.234	0.3633
NM_0010054	Gm996	predicted ge	381353	2.0614	0.9128	0.234	0.3633
NM_0010054	Gm996	predicted ge	381353	2.0614	0.9128	0.234	0.3633
NM_008909	Ppl	periplakin	19041	2.0532	0.0302	0.0086	0.1099
NM_008909	Ppl	periplakin	19041	2.6226	0.0504	0.017	0.2333
NR_024085	BC006965	cDNA sequer	217294	2.3634	0.5571	0.1967	0.1482
NR_024085	BC006965	cDNA sequer	217294	2.3634	0.5571	0.1967	0.1482
NR_024085	BC006965	cDNA sequer	217294	2.3634	0.6744	0.1967	0.6561
NR_024069	2010107H07	RIKEN cDNA	66487	2.6583	0.8754	0.918	0.899
NR_024069	2010107H07	RIKEN cDNA	66487	2.6583	0.8754	0.918	0.899
NR_024069	2010107H07	RIKEN cDNA	66487	2.6583	0.8754	0.3097	0.899
NR_024069	2010107H07	RIKEN cDNA	66487	2.5376	0.8754	0.918	0.899
NR_024069	2010107H07	RIKEN cDNA	66487	2.426	0.8754	1.0659	1.6631
NR_024069	2010107H07	RIKEN cDNA	66487	2.426	0.8754	1.0659	1.3804
NR_024069	2010107H07	RIKEN cDNA	66487	2.426	0.8754	0.9926	0.899
NR_002857	Psg-ps1	pregnancy sp	232919	2.0114	0.447	0.4036	0.6416
NR_002857	Psg-ps1	pregnancy sp	232919	2.0207	0.5327	0.5571	0.7162
NR_002857	Psg-ps1	pregnancy sp	232919	2.0207	0.5327	0.5571	0.7162
NR_002857	Psg-ps1	pregnancy sp	232919	2.0207	0.5327	0.5571	0.7162
NR_002857	Psg-ps1	pregnancy sp	232919	2.0207	0.5327	0.5571	0.7162

NM_213616	Atp2b4	ATPase, Ca++	381290	2.1342	0.947	0.8241	0.5004
NM_213616	Atp2b4	ATPase, Ca++	381290	2.0594	0.947	0.8241	0.5004
NM_213616	Atp2b4	ATPase, Ca++	381290	2.0594	0.947	0.3413	0.5004
NM_207708	Syngn1	synaptogyrin	20972	2.1107	0.6104	0.2632	0.0058
NM_207708	Syngn1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_207708	Syngn1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_207708	Syngn1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.3077
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.3077
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.3077
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.3077
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.3077
NM_207558	Olfir750	olfactory rec	404319	2.14	0.634	0.3011	0.4554
NM_207558	Olfir750	olfactory rec	404319	2.14	0.9509	0.3524	0.3077
NM_207531	Agr3	anterior grad	403205	2.3784	0.8629	0.6542	0.7766
NM_207531	Agr3	anterior grad	403205	2.3509	0.8629	0.6542	0.7766
NM_207531	Agr3	anterior grad	403205	2.226	0.8629	0.6672	0.7766
NM_207246	Rasgrp3	RAS, guanyl r	240168	2.0269	0.71	0.4626	0.7049
NM_207246	Rasgrp3	RAS, guanyl r	240168	2.3831	0.8644	0.5779	0.8585
NM_207246	Rasgrp3	RAS, guanyl r	240168	2.3831	0.8644	0.5779	0.8585
NM_207224	Olfir384	olfactory rec	193053	2.0432	0.8293	0.5265	0.8977
NM_207224	Olfir384	olfactory rec	193053	2.9155	0.832	1.3934	1.4066
NM_207224	Olfir384	olfactory rec	193053	2.371	0.927	1.0337	0.8122
NM_207224	Olfir384	olfactory rec	193053	2.2882	0.927	1.5909	0.8122
NM_199150	BC049730	cDNA sequen	232972	2.0139	0.7473	0.6216	0.647
NM_199150	BC049730	cDNA sequen	232972	2.0139	0.7473	0.6216	0.4354
NM_199150	BC049730	cDNA sequen	232972	2.0139	0.7473	0.6216	0.4354
NM_199013	Irgc1	immunity-rel	210145	2.1838	0.651	0.8271	0.8119
NM_199013	Irgc1	immunity-rel	210145	2.1838	0.651	0.8271	0.8119
NM_199013	Irgc1	immunity-rel	210145	2.1838	0.651	0.8271	0.8119
NM_198942	Dhx57	DEAH (Asp-G	106794	2.1864	0.5142	0.613	0.62
NM_198942	Dhx57	DEAH (Asp-G	106794	2.0202	0.7141	0.1942	0.4551
NM_198942	Dhx57	DEAH (Asp-G	106794	2.5348	0.7702	0.8193	0.7269
NM_198942	Dhx57	DEAH (Asp-G	106794	2.2908	0.8322	0.2448	0.5418
NM_198942	Dhx57	DEAH (Asp-G	106794	2.2908	0.8322	0.2448	0.5418
NM_198858	Ctf2	cardiotrophir	244218	2.0291	0.6231	0.2773	0.6335
NM_198858	Ctf2	cardiotrophir	244218	2.0291	0.6231	0.2773	0.6335
NM_198858	Ctf2	cardiotrophir	244218	3.0305	0.6996	0.8692	1.2987
NM_198635	Gm5134	predicted ge	333669	2.1874	0.7156	0.5903	0.3089
NM_198635	Gm5134	predicted ge	333669	2.1874	0.7156	0.1472	0.3089
NM_198635	Gm5134	predicted ge	333669	2.5167	0.8499	0.0805	0.4712
NM_198635	Gm5134	predicted ge	333669	2.1708	0.8532	0.4078	0.9451
NM_198635	Gm5134	predicted ge	333669	2.5253	0.984	0.1095	0.7174
NM_198635	Gm5134	predicted ge	333669	2.5253	0.984	0.1095	0.7174
NM_198635	Gm5134	predicted ge	333669	2.5253	0.984	0.1095	0.7174
NM_197989	Fam58b	family with s	69109	2.3634	0.8574	0.3074	0.398
NM_197989	Fam58b	family with s	69109	2.3634	0.8833	0.3296	0.398
NM_197989	Fam58b	family with s	69109	3.2159	0.8886	0.2212	0.4453
NM_183423	Pla2g12a	phospholipas	66350	2.3021	0.7234	0.5182	0.1832
NM_183423	Pla2g12a	phospholipas	66350	2.7005	0.9595	0.767	0.3378
NM_183423	Pla2g12a	phospholipas	66350	2.7005	0.9595	0.767	0.3378
NM_183319	Xkrx	X Kell blood g	331524	2.6592	0.7383	0.7314	1.0931
NM_183319	Xkrx	X Kell blood g	331524	2.6592	0.7383	0.7314	1.0931

NM_183319	Xkrx	X Kell blood g	331524	2.6592	0.7383	0.7314	1.0931
NM_183319	Xkrx	X Kell blood g	331524	2.5061	0.7383	0.7314	0.9477
NM_183319	Xkrx	X Kell blood g	331524	2.5061	0.7383	0.7314	0.9477
NM_183319	Xkrx	X Kell blood g	331524	2.5061	0.7383	0.7314	0.9477
NM_183319	Xkrx	X Kell blood g	331524	2.2027	0.7383	0.7314	0.9052
NM_183319	Xkrx	X Kell blood g	331524	2.5061	0.8043	0.7314	0.9054
NM_183316	Snpc5	small nuclear	330959	2.115	0.4265	0.1644	0.182
NM_183316	Snpc5	small nuclear	330959	2.0848	0.9616	0.9645	0.4453
NM_183316	Snpc5	small nuclear	330959	2.0848	0.9616	0.9645	0.4453
NM_183155	BC002230	cDNA sequer	217827	2.2494	0.6882	0.1374	0.1623
NM_183155	BC002230	cDNA sequer	217827	2.2494	0.6882	0.1374	0.1623
NM_183155	BC002230	cDNA sequer	217827	2.2494	0.6882	0.1374	0.1623
NM_181748	Gpr120	G protein-co	107221	2.0522	0.7558	0.4529	0.6734
NM_181748	Gpr120	G protein-co	107221	2.4783	0.8227	0.7103	1.064
NM_181748	Gpr120	G protein-co	107221	2.1094	0.9711	0.5767	0.8829
NM_178909	Wdr92	WD repeat d	103784	2.2654	0.726	0.4065	0.529
NM_178909	Wdr92	WD repeat d	103784	2.2654	0.9155	0.8425	0.8492
NM_178909	Wdr92	WD repeat d	103784	2.2654	0.9155	0.8425	1.1226
NM_178909	Wdr92	WD repeat d	103784	2.2654	0.9155	0.8425	1.1226
NM_178803	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_178803	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_178803	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_178803	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_178697	Clca5	chloride char	229933	2.246	0.646	0.8581	0.0081
NM_178697	Clca5	chloride char	229933	2.485	0.659	0.4091	0.6537
NM_178697	Clca5	chloride char	229933	2.8489	0.7432	0.5156	0.7994
NM_178697	Clca5	chloride char	229933	2.6358	0.8205	1.0354	0.0439
NM_178697	Clca5	chloride char	229933	2.0723	0.8812	0.1076	0.6227
NM_178644	Oaf	OAF homolog	102644	2.0776	0.63	0.5602	0.5143
NM_178644	Oaf	OAF homolog	102644	2.4416	0.7719	0.8188	0.7622
NM_178644	Oaf	OAF homolog	102644	2.8045	0.9137	1.0813	1.0141
NM_178611	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5237	0.5899
NM_178611	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5402	0.5899
NM_178611	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5402	0.5899
NM_178609	E2f7	E2F transcrip	52679	2.0811	0.4675	1.0077	1.3048
NM_178609	E2f7	E2F transcrip	52679	2.3964	0.5678	1.1808	1.0954
NM_178609	E2f7	E2F transcrip	52679	2.3964	0.5678	1.1808	1.0954
NM_178609	E2f7	E2F transcrip	52679	2.3964	0.5678	1.1808	1.5173
NM_178609	E2f7	E2F transcrip	52679	2.3964	0.5678	1.1808	1.5173
NM_178609	E2f7	E2F transcrip	52679	2.5514	0.7773	1.1808	1.0954
NM_178609	E2f7	E2F transcrip	52679	2.3964	0.7773	1.1808	1.0954
NM_178609	E2f7	E2F transcrip	52679	2.7109	0.9942	1.3536	1.2581
NM_178600	Vkorc1	vitamin K epd	27973	3.0409	0.9841	1.0876	1.1496
NM_178600	Vkorc1	vitamin K epd	27973	3.0409	0.9841	1.0876	1.1496
NM_178600	Vkorc1	vitamin K epd	27973	2.1922	0.9841	1.0876	1.1496
NM_178600	Vkorc1	vitamin K epd	27973	2.1922	0.9841	1.0876	1.1496
NM_178418	Ccdc144b	coiled-coil dc	241943	2.6804	0.6716	0.5807	0.6231
NM_178418	Ccdc144b	coiled-coil dc	241943	2.0937	0.6716	0.5807	0.6231
NM_178418	Ccdc144b	coiled-coil dc	241943	2.6804	0.8679	0.5807	0.6231
NM_178396	Car12	carbonic any	76459	2.2002	0.7072	0.6553	0.6998
NM_178396	Car12	carbonic any	76459	2.2002	0.7072	0.6553	0.6998
NM_178396	Car12	carbonic any	76459	2.2002	0.7072	0.6553	0.6998
NM_177472	Btbd12	BTB (POZ) do	52864	2.4278	0.7062	0.3518	0.6104

NM_177472	Btbd12	BTB (POZ) do	52864	2.4278	0.7062	0.3518	0.6104
NM_177472	Btbd12	BTB (POZ) do	52864	2.4278	0.7062	0.3518	0.6104
NM_177472	Btbd12	BTB (POZ) do	52864	2.4426	0.7823	0.3523	0.516
NM_177385	Cntln	centlein, cen	338349	2.8693	0.8343	0.9207	1.0244
NM_177385	Cntln	centlein, cen	338349	2.2621	0.8343	0.9207	1.0244
NM_177385	Cntln	centlein, cen	338349	2.561	0.9665	1.0631	1.1789
NM_177385	Cntln	centlein, cen	338349	2.561	0.9665	1.0631	1.1789
NM_177346	Gpr149	G protein-co	229357	2.0241	0.228	0.0245	0.2961
NM_177346	Gpr149	G protein-co	229357	2.0241	0.228	0.0245	0.2961
NM_177346	Gpr149	G protein-co	229357	3.1122	0.2917	0.0722	0.3485
NM_177346	Gpr149	G protein-co	229357	2.3318	0.2917	0.0722	0.4082
NM_177346	Gpr149	G protein-co	229357	3.1452	0.8314	0.8283	0.4082
NM_177340	Synpo	synaptopodir	104027	2.9193	0.8899	0.4892	0.4656
NM_177340	Synpo	synaptopodir	104027	2.1194	0.9298	0.5356	0.7978
NM_177340	Synpo	synaptopodir	104027	2.1194	0.9298	0.3232	0.2428
NM_177270	Cdkl2	cyclin-depend	53886	2.1785	0.6803	0.4619	0.5764
NM_177270	Cdkl2	cyclin-depend	53886	2.1785	0.6803	0.4619	0.5764
NM_177270	Cdkl2	cyclin-depend	53886	2.9644	0.8342	0.7916	1.3391
NM_177270	Cdkl2	cyclin-depend	53886	2.6284	0.8579	0.5986	0.7348
NM_177205	9430015G10	RIKEN cDNA	230996	2.0572	0.5751	0.4771	0.3715
NM_177205	9430015G10	RIKEN cDNA	230996	2.0219	0.6597	0.5253	1.1294
NM_177205	9430015G10	RIKEN cDNA	230996	2.4851	0.7332	0.6166	0.4903
NM_177205	9430015G10	RIKEN cDNA	230996	2.9114	0.8912	0.7564	0.6101
NM_177150	Cenpt	centromere g	320394	2.1193	0.7635	1.0849	1.0504
NM_177150	Cenpt	centromere g	320394	2.1193	0.7635	1.0849	1.0504
NM_177150	Cenpt	centromere g	320394	2.0123	0.8564	1.1851	1.3335
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.476	0.0852
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0.0066
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0
NM_177097	D830046C22	RIKEN cDNA	320197	2.0709	0.543	0.1137	0
NM_177097	D830046C22	RIKEN cDNA	320197	2.6381	0.9938	0.7912	0.5362
NM_175413	Lrrc39	leucine rich r	109245	2.2422	0.4541	0.1817	0.0193
NM_175413	Lrrc39	leucine rich r	109245	2.6314	0.568	0.2459	0.0548
NM_175413	Lrrc39	leucine rich r	109245	2.4324	0.844	0.3542	0.5325
NM_175347	Srl	sarcalumenir	106393	2.3963	0.4341	0.8975	0.8404
NM_175347	Srl	sarcalumenir	106393	2.8857	0.5802	0.571	0.8365
NM_175347	Srl	sarcalumenir	106393	2.3356	0.8435	0.7037	1.0104
NM_175296	Mael	maelstrom h	98558	2.1961	0.9093	0.8034	0.9275
NM_175296	Mael	maelstrom h	98558	2.1961	0.9224	0.8799	0.9275
NM_175296	Mael	maelstrom h	98558	2.1961	0.9224	0.8799	0.9275
NM_175277	Bola3	bolA-like 3 (E	78653	2.429	0.6575	0.4566	0.1403
NM_175277	Bola3	bolA-like 3 (E	78653	2.8468	0.8038	0.5708	0.195
NM_175277	Bola3	bolA-like 3 (E	78653	2.3214	0.9404	0.3378	0.2504
NM_175277	Bola3	bolA-like 3 (E	78653	3.2634	0.9498	0.6855	0.2787
NM_175275	Cntln	centlein, cen	338349	2.8693	0.8343	0.9207	1.0244
NM_175275	Cntln	centlein, cen	338349	2.2621	0.8343	0.9207	1.0244
NM_175275	Cntln	centlein, cen	338349	2.561	0.9665	1.0631	1.1789
NM_175275	Cntln	centlein, cen	338349	2.561	0.9665	1.0631	1.1789
NM_175234	6230409E13	RIKEN cDNA	76132	2.0805	0.3565	0.2424	0.8206
NM_175234	6230409E13	RIKEN cDNA	76132	2.0805	0.3565	0.2424	0.8206
NM_175234	6230409E13	RIKEN cDNA	76132	2.0805	0.3565	0.2424	0.8206
NM_175234	6230409E13	RIKEN cDNA	76132	2.0805	0.3565	0.2424	0.8206

NM_175207	Ankrd9	ankyrin repe	74251	2.3219	0.4272	0.2298	0.2913
NM_175207	Ankrd9	ankyrin repe	74251	3.1433	0.6002	0.3693	0.6615
NM_175207	Ankrd9	ankyrin repe	74251	2.3371	0.8958	0.7371	0.8257
NM_173423	Fem1c	fem-1 homol	240263	2.7014	0.5473	0.4344	0.2345
NM_173423	Fem1c	fem-1 homol	240263	2.7014	0.5473	0.4344	0.2345
NM_173423	Fem1c	fem-1 homol	240263	2.7014	0.5473	0.4344	0.2345
NM_173423	Fem1c	fem-1 homol	240263	2.6388	0.5473	0.4344	0.2345
NM_173423	Fem1c	fem-1 homol	240263	2.6388	0.5473	0.4344	0.2345
NM_173423	Fem1c	fem-1 homol	240263	2.0891	0.8532	0.4717	0.8248
NM_173375	Fam180a	family with s	208164	2.7548	0.6898	0.734	0.0069
NM_173375	Fam180a	family with s	208164	2.7017	0.6898	0.2437	0.0006
NM_173375	Fam180a	family with s	208164	2.7017	0.6898	0.2437	0.0006
NM_172758	Slc38a7	solute carrier	234595	2.11	0.6409	0.1131	0.2069
NM_172758	Slc38a7	solute carrier	234595	2.0525	0.9004	0.1784	0.5157
NM_172758	Slc38a7	solute carrier	234595	2.0525	0.9004	0	0.5157
NM_172758	Slc38a7	solute carrier	234595	2.0525	0.9004	0	0.5157
NM_172569	Unk	unkempt hor	217331	2.6838	0.4899	0.4637	0.4449
NM_172569	Unk	unkempt hor	217331	2.0945	0.5933	0.5635	0.5421
NM_172569	Unk	unkempt hor	217331	2.0945	0.5933	0.5635	0.5421
NM_172569	Unk	unkempt hor	217331	2.6838	0.6363	0.4637	0.606
NM_172569	Unk	unkempt hor	217331	2.3738	0.697	0.6636	0.6396
NM_172567	Mettl2	methyltransf	52686	2.0091	0.7894	1.0607	1.7013
NM_172567	Mettl2	methyltransf	52686	2.0091	0.7894	1.0607	1.2851
NM_172567	Mettl2	methyltransf	52686	2.3001	0.8387	1.0607	1.7013
NM_172567	Mettl2	methyltransf	52686	2.2784	0.9164	1.2194	1.9348
NM_172476	Tmc7	transmembra	209760	2.0159	0.8573	0.7695	0.4645
NM_172476	Tmc7	transmembra	209760	2.0159	0.8573	0.7695	0.4645
NM_172476	Tmc7	transmembra	209760	2.0159	0.8573	0.7845	0.4645
NM_172462	Zfp11	zinc finger pr	22648	2.007	0.6772	0.2616	0.3062
NM_172462	Zfp11	zinc finger pr	22648	2.007	0.6772	0.1714	0.1808
NM_172462	Zfp11	zinc finger pr	22648	2.007	0.6772	0.1714	0.1808
NM_172462	Zfp11	zinc finger pr	22648	2.007	0.6889	0.2775	0.6879
NM_153089	Ppp1r16b	protein phos	228852	2.022	0.6718	0.7758	0.6383
NM_153089	Ppp1r16b	protein phos	228852	2.022	0.6718	0.7758	0.6383
NM_153089	Ppp1r16b	protein phos	228852	2.2335	0.8881	1.0156	0.847
NM_148924	Zfp263	zinc finger pr	74120	2.0057	0.9105	0.8336	0.9142
NM_148924	Zfp263	zinc finger pr	74120	2.0057	0.9105	0.8336	0.9142
NM_148924	Zfp263	zinc finger pr	74120	2.0057	0.9105	0.8336	0.9142
NM_146994	Olf201	olfactory rec	258996	2.0408	0.6956	0.3767	0.415
NM_146994	Olf201	olfactory rec	258996	2.3507	0.8272	0.4434	0.6951
NM_146994	Olf201	olfactory rec	258996	2.6599	0.9586	0.6832	0.9898
NM_146934	Olf46	olfactory rec	18345	2.2764	0.7509	0.5327	0.7472
NM_146934	Olf46	olfactory rec	18345	2.2764	0.8421	1.1786	1.4358
NM_146934	Olf46	olfactory rec	18345	2.125	0.8421	1.1786	1.01
NM_146605	Olf828	olfactory rec	258598	2.0795	0.5438	0.3611	0.6474
NM_146605	Olf828	olfactory rec	258598	2.0981	0.7805	0.9499	0.3362
NM_146605	Olf828	olfactory rec	258598	2.0981	0.7805	0.3794	0.3362
NM_146434	Olf995	olfactory rec	258426	2.0819	0.7662	0.7049	1.1655
NM_146434	Olf995	olfactory rec	258426	2.3972	0.8085	0.8377	1.3595
NM_146434	Olf995	olfactory rec	258426	2.3972	0.8085	0.8377	1.3595
NM_146434	Olf995	olfactory rec	258426	2.3972	0.8085	0.8377	1.3595
NM_146434	Olf995	olfactory rec	258426	2.3972	0.8085	0.8377	1.3595
NM_146149	Fam151a	family with s	230579	2.0872	0.5441	0.2974	0.186

NM_146149	Fam151a	family with s	230579	2.0872	0.5441	0.2073	0.186
NM_146149	Fam151a	family with s	230579	2.0872	0.5441	0.2073	0.186
NM_146149	Fam151a	family with s	230579	2.0872	0.8094	0.7593	0.7089
NM_146149	Fam151a	family with s	230579	2.0872	0.8094	0.7593	0.7089
NM_146057	Dap	death-associa	223453	2.4614	0.7995	1.0496	1.3057
NM_146057	Dap	death-associa	223453	2.7835	0.9276	1.207	1.493
NM_146057	Dap	death-associa	223453	2.7835	0.9276	1.207	1.493
NM_145953	Cth	cystathionase	107869	2.2309	0.5506	0.2513	0.2735
NM_145953	Cth	cystathionase	107869	2.398	0.7623	0.6619	0.4651
NM_145953	Cth	cystathionase	107869	2.398	0.7623	0.6619	0.4651
NM_145853	Tpcn1	two pore cha	252972	2.0433	0.5726	0.0904	0.4266
NM_145853	Tpcn1	two pore cha	252972	2.0433	0.5726	0.0904	0.4266
NM_145853	Tpcn1	two pore cha	252972	2.512	0.7885	0.1345	0.5211
NM_145853	Tpcn1	two pore cha	252972	2.512	0.7885	0.1345	0.5211
NM_145853	Tpcn1	two pore cha	252972	2.512	0.7885	0.1345	0.5211
NM_145853	Tpcn1	two pore cha	252972	2.0788	0.9288	0.2285	0.2792
NM_145635	Adig	adipogenin	246747	2.0131	0.857	0.3977	1.2608
NM_145635	Adig	adipogenin	246747	2.0131	0.857	0.3977	1.2608
NM_145635	Adig	adipogenin	246747	2.0131	0.857	0.3977	1.2608
NM_145557	9430015G10	RIKEN cDNA	230996	2.0572	0.5751	0.4771	0.3715
NM_145557	9430015G10	RIKEN cDNA	230996	2.0219	0.6597	0.5253	1.1294
NM_145557	9430015G10	RIKEN cDNA	230996	2.4851	0.7332	0.6166	0.4903
NM_145557	9430015G10	RIKEN cDNA	230996	2.9114	0.8912	0.7564	0.6101
NM_144821	Al317395	expressed se	215929	2.0631	0.9716	0.4854	0.3183
NM_144821	Al317395	expressed se	215929	2.0631	0.9716	0.4854	0.3183
NM_144821	Al317395	expressed se	215929	2.0631	0.9716	0.4854	0.5672
NM_144821	Al317395	expressed se	215929	2.0631	0.9716	0.4854	0.5672
NM_144813	Slc24a1	solute carrier	214111	2.4813	0.7355	0.1785	0.16
NM_144813	Slc24a1	solute carrier	214111	2.4813	0.7355	0.1785	0.16
NM_144813	Slc24a1	solute carrier	214111	2.4813	0.7355	0.1785	0.16
NM_144813	Slc24a1	solute carrier	214111	2.1251	0.7355	0.1278	0.16
NM_144813	Slc24a1	solute carrier	214111	2.5984	0.7988	0.2548	0.3971
NM_144813	Slc24a1	solute carrier	214111	2.5984	0.7988	0.1785	0.16
NM_144813	Slc24a1	solute carrier	214111	3.5367	0.9785	0.8346	1.0453
NM_144792	Sgms1	sphingomyel	208449	2.6021	0.7329	1.0179	1.0152
NM_144792	Sgms1	sphingomyel	208449	2.4284	0.7534	1.1507	1.1484
NM_144792	Sgms1	sphingomyel	208449	2.9236	0.9444	1.4141	1.4114
NM_139305	Car9	carbonic anh	230099	2.4868	0.7835	0.5403	0.8663
NM_139305	Car9	carbonic anh	230099	2.1774	0.7835	0.5403	0.8663
NM_139305	Car9	carbonic anh	230099	2.1774	0.7835	0.5403	0.8663
NM_139301	Catsper1	cation chann	225865	2.0078	0.6903	0.1428	0.5657
NM_139301	Catsper1	cation chann	225865	2.0078	0.6903	0.1428	0.5657
NM_139301	Catsper1	cation chann	225865	2.0566	0.7357	0.0583	0.0532
NM_139301	Catsper1	cation chann	225865	2.0566	0.7357	0.0124	0.1302
NM_139301	Catsper1	cation chann	225865	2.0566	0.7357	0.0097	0.017
NM_139301	Catsper1	cation chann	225865	2.0078	0.9029	0.1428	0.5657
NM_139301	Catsper1	cation chann	225865	2.0078	0.9029	0.1428	0.5657
NM_139301	Catsper1	cation chann	225865	2.0078	0.9948	0.1919	0.5657
NM_139301	Catsper1	cation chann	225865	2.0078	0.9948	0.1919	0.5657
NM_139200	Cytip	cytohesin 1 i	227929	2.2081	0.709	1.2964	0.5609
NM_139200	Cytip	cytohesin 1 i	227929	2.2081	0.709	1.2964	0.5609
NM_139200	Cytip	cytohesin 1 i	227929	2.2081	0.709	1.3957	1.1215
NM_139200	Cytip	cytohesin 1 i	227929	2.0077	0.9531	0.6735	0.8706

NM_138668	Ufsp2	UFM1-specif	192169	2.1079	0.243	0.2778	0.3461
NM_138668	Ufsp2	UFM1-specif	192169	2.5245	0.3634	0.4061	0.4885
NM_138668	Ufsp2	UFM1-specif	192169	2.5245	0.4505	0.4061	0.4885
NM_138668	Ufsp2	UFM1-specif	192169	2.2556	0.4941	0.1329	0.0965
NM_138668	Ufsp2	UFM1-specif	192169	2.7656	0.5982	0.2165	0.0606
NM_138668	Ufsp2	UFM1-specif	192169	2.7656	0.5982	0.2165	0.0606
NM_138668	Ufsp2	UFM1-specif	192169	2.2618	0.8436	0.3306	0.1493
NM_138581	1700088E04	RIKEN cDNA	27660	2.1333	0.6027	0.5078	0.3338
NM_138581	1700088E04	RIKEN cDNA	27660	2.3298	0.6826	0.1677	0.1039
NM_138581	1700088E04	RIKEN cDNA	27660	2.9163	0.9014	0.4293	0.2086
NM_133967	Zdhhc7	zinc finger, D	102193	2.1971	0.5698	0.4985	0.1837
NM_133967	Zdhhc7	zinc finger, D	102193	2.5157	0.6843	0.6031	0.2394
NM_133967	Zdhhc7	zinc finger, D	102193	2.8432	0.7989	0.708	0.2972
NM_133913	Chpf2	chondroitin g	100910	2.298	0.8676	1.0034	1.0451
NM_133913	Chpf2	chondroitin g	100910	2.298	0.8676	1.0034	1.0451
NM_133913	Chpf2	chondroitin g	100910	2.2884	0.8676	1.0034	1.0451
NM_133201	Mfn2	mitofusin 2	170731	2.149	0.5247	0.1949	0.3155
NM_133201	Mfn2	mitofusin 2	170731	2.2599	0.5364	0.2014	0.2596
NM_133201	Mfn2	mitofusin 2	170731	2.5027	0.9071	0.4063	0.4968
NM_133201	Mfn2	mitofusin 2	170731	2.5027	0.9071	0.4063	0.4968
NM_130878	Cdhr1	cadherin-rela	170677	2.1725	0.5768	0.3972	0.5714
NM_130878	Cdhr1	cadherin-rela	170677	2.1725	0.5768	0.3974	0.5714
NM_130878	Cdhr1	cadherin-rela	170677	2.1725	0.5768	0.1963	0.3135
NM_130878	Cdhr1	cadherin-rela	170677	2.4724	0.6923	0.5772	0.7872
NM_080856	Asb14	ankyrin repe	142687	2.0837	0.5226	0.0033	0.0512
NM_080856	Asb14	ankyrin repe	142687	2.0837	0.5226	0.0021	0.0512
NM_080856	Asb14	ankyrin repe	142687	2.3992	0.7168	0.0425	0.1201
NM_080856	Asb14	ankyrin repe	142687	2.2918	0.7168	0.0147	0.1201
NM_080856	Asb14	ankyrin repe	142687	2.5941	0.9239	0.0437	0.2064
NM_080856	Asb14	ankyrin repe	142687	2.2918	0.9669	0.188	0.3869
NM_053085	Tcf23	transcription	69852	2.5927	0.65	0.5901	0.7367
NM_053085	Tcf23	transcription	69852	2.4916	0.8689	0.6657	0.578
NM_053085	Tcf23	transcription	69852	2.3145	0.9292	0.6707	0.62
NM_053069	Atg5	autophagy-re	11793	2.421	0.5358	0.6329	0.4163
NM_053069	Atg5	autophagy-re	11793	2.421	0.5358	0.6329	0.4163
NM_053069	Atg5	autophagy-re	11793	2.421	0.5358	0.6329	0.4163
NM_053069	Atg5	autophagy-re	11793	2.421	0.5358	0.6329	0.4163
NM_053069	Atg5	autophagy-re	11793	2.0022	0.5358	0.6329	0.4163
NM_053069	Atg5	autophagy-re	11793	2.7719	0.7818	0.6329	0.4616
NM_031176	Tnxb	tenascin XB	81877	2.1251	0.8316	1.0965	1.07
NM_031176	Tnxb	tenascin XB	81877	2.1251	0.8316	1.0965	1.07
NM_031176	Tnxb	tenascin XB	81877	2.1251	0.8316	0.5553	0.5789
NM_031176	Tnxb	tenascin XB	81877	2.4461	0.9814	0.7182	0.7961
NM_030718	Abo	ABO blood gr	80908	3.2108	0.6407	0.6761	0.9826
NM_030718	Abo	ABO blood gr	80908	3.1275	0.6899	0.912	1.1525
NM_030718	Abo	ABO blood gr	80908	3.6888	0.9836	1.1501	1.3219
NM_030696	Slc16a3	solute carrier	80879	3.486	0.7812	0.7783	0.7061
NM_030696	Slc16a3	solute carrier	80879	2.6177	0.7812	0.2197	0.2213
NM_030696	Slc16a3	solute carrier	80879	2.958	0.9073	0.3623	0.2763
NM_030258	Gpr146	G protein-cou	80290	2.099	0.543	0.1137	0.0036
NM_030258	Gpr146	G protein-cou	80290	2.0709	0.543	0.476	0.0852
NM_030258	Gpr146	G protein-cou	80290	2.0709	0.543	0.1137	0.0066
NM_030258	Gpr146	G protein-cou	80290	2.0709	0.543	0.1137	0

NM_030258	Gpr146	G protein-co	80290	2.0709	0.543	0.1137	0
NM_030258	Gpr146	G protein-co	80290	2.0709	0.543	0.1137	0
NM_030258	Gpr146	G protein-co	80290	2.0709	0.543	0.1137	0
NM_030258	Gpr146	G protein-co	80290	2.0709	0.543	0.1137	0.0036
NM_030258	Gpr146	G protein-co	80290	2.5462	0.6218	0.4608	0.0111
NM_030258	Gpr146	G protein-co	80290	2.6381	0.9938	0.7912	0.5362
NM_029816	2610028H24	RIKEN cDNA	76964	2.0154	0.4076	0.0232	0.0073
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.0346
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.037
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.037
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.0346
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.0346
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.0134
NM_029816	2610028H24	RIKEN cDNA	76964	2.1865	0.4884	0.0357	0.0134
NM_029816	2610028H24	RIKEN cDNA	76964	2.0154	0.8335	0.0804	0.2596
NM_029816	2610028H24	RIKEN cDNA	76964	2.2367	0.9085	1.5253	1.9671
NM_029816	2610028H24	RIKEN cDNA	76964	3.0022	0.9196	0.4017	0.4061
NM_029760	Nubpl	nucleotide bi	76826	2.4119	0.6449	0.2787	0.3154
NM_029760	Nubpl	nucleotide bi	76826	2.1948	0.6449	0.2787	0.3154
NM_029760	Nubpl	nucleotide bi	76826	2.1948	0.6449	0.2787	0.3154
NM_029760	Nubpl	nucleotide bi	76826	2.4119	0.995	0.2787	0.6939
NM_029673	Immt	inner membr	76614	2.1278	0.519	0.1391	0.7495
NM_029673	Immt	inner membr	76614	2.3391	0.9001	0.3793	0.9533
NM_029673	Immt	inner membr	76614	2.3391	0.9001	0.3793	0.9533
NM_029673	Immt	inner membr	76614	2.0305	0.9772	0.8913	1.2061
NM_029331	1700019G17	RIKEN cDNA	75541	2.0118	0.7807	0.125	0.2483
NM_029331	1700019G17	RIKEN cDNA	75541	2.1032	0.7874	0.2263	0.2483
NM_029331	1700019G17	RIKEN cDNA	75541	2.1032	0.7874	0.2263	0.2322
NM_029325	Spinlw1	serine protea	75526	2.3188	0.3129	0.1343	0.2964
NM_029325	Spinlw1	serine protea	75526	2.3188	0.3129	0.1343	0.2964
NM_029325	Spinlw1	serine protea	75526	2.7657	0.5199	0.2811	0.4989
NM_029325	Spinlw1	serine protea	75526	2.7657	0.7051	0.2811	0.6033
NM_029325	Spinlw1	serine protea	75526	2.7297	0.7051	0.2811	0.587
NM_029293	Phpt1	phosphohisti	75454	2.0614	0.9128	0.6835	0.3633
NM_029293	Phpt1	phosphohisti	75454	2.0614	0.9128	0.234	0.3633
NM_029293	Phpt1	phosphohisti	75454	2.0614	0.9128	0.234	0.3633
NM_029293	Phpt1	phosphohisti	75454	2.0614	0.9128	0.234	0.3633
NM_028942	Slco6c1	solute carrier	74441	2.0123	0.6256	0.4044	0.5282
NM_028942	Slco6c1	solute carrier	74441	2.0123	0.6256	0.4044	0.5282
NM_028942	Slco6c1	solute carrier	74441	2.4819	0.8368	0.6086	0.5889
NM_028841	Tspan17	tetraspanin 1	74257	2.3874	0.6588	0.3619	0.311
NM_028841	Tspan17	tetraspanin 1	74257	2.3874	0.6588	0.3619	0.311
NM_028841	Tspan17	tetraspanin 1	74257	2.3874	0.7652	0.3619	0.2233
NM_028718	Traf3ip1	TRAF3 intera	74019	2.0955	0.947	1.193	0.7864
NM_028718	Traf3ip1	TRAF3 intera	74019	2.0955	0.947	1.0198	0.7864
NM_028718	Traf3ip1	TRAF3 intera	74019	2.0955	0.947	0.5846	0.7864
NM_028657	F630110N24	RIKEN cDNA	73822	2.3815	0.912	0.8246	1.1473
NM_028657	F630110N24	RIKEN cDNA	73822	2.2821	0.912	0.8671	1.1473
NM_028657	F630110N24	RIKEN cDNA	73822	2.2821	0.912	0.736	0.4566
NM_028657	F630110N24	RIKEN cDNA	73822	2.2821	0.912	0.736	0.4566
NM_028657	F630110N24	RIKEN cDNA	73822	2.2821	0.912	0.736	0.4566
NM_028657	F630110N24	RIKEN cDNA	73822	2.2821	0.912	0.736	0.4566
NM_028626	Mcee	methylmalon	73724	2.0992	0.9686	0.5363	0.8429

NM_028626	Mcee	methylmalon	73724	2.0992	0.9686	0.5363	0.8429
NM_028626	Mcee	methylmalon	73724	2.0992	0.9686	0.5363	0.8429
NM_028621	Krtap16-7	keratin assoc	170656	2.3233	0.5128	0.3271	0.5557
NM_028621	Krtap16-7	keratin assoc	170656	2.1548	0.6067	0.3636	0.6549
NM_028621	Krtap16-7	keratin assoc	170656	2.3811	0.6831	0.5597	0.8386
NM_028621	Krtap16-7	keratin assoc	170656	2.3233	0.8184	0.9913	0.951
NM_028621	Krtap16-7	keratin assoc	170656	2.1416	0.8455	0.8678	0.9882
NM_028621	Krtap16-7	keratin assoc	170656	3.0145	0.9698	0.8183	1.1596
NM_028536	1700054N08	RIKEN cDNA	73420	2.2717	0.9366	0.7581	1.1615
NM_028536	1700054N08	RIKEN cDNA	73420	2.2717	0.9366	0.726	0.8654
NM_028536	1700054N08	RIKEN cDNA	73420	2.2717	0.9366	0.726	0.8654
NM_028450	Gulp1	GULP, engulf	70676	2.1032	0.4019	0.7215	0.6126
NM_028450	Gulp1	GULP, engulf	70676	2.0445	0.4019	0.7215	0.6126
NM_028450	Gulp1	GULP, engulf	70676	2.0445	0.4019	0.7215	0.6126
NM_028450	Gulp1	GULP, engulf	70676	2.2875	0.8136	0.9059	0.6126
NM_028407	Gcap14	granule cell a	72972	2.045	0.6075	0.1213	0.5088
NM_028407	Gcap14	granule cell a	72972	2.404	0.7459	0.1713	0.6316
NM_028407	Gcap14	granule cell a	72972	2.5569	0.8843	0.3004	0.7545
NM_028407	Gcap14	granule cell a	72972	2.5569	0.8843	0.2247	0.7545
NM_028076	Tmub2	transmembra	72053	2.1756	0.9553	1.4972	1.3922
NM_028076	Tmub2	transmembra	72053	2.1756	0.9553	1.0199	1.3331
NM_028076	Tmub2	transmembra	72053	2.1756	0.9553	1.0199	1.3331
NM_028076	Tmub2	transmembra	72053	2.4352	0.9599	0.8172	1.0822
NM_028003	Rpap3	RNA polymer	71919	2.2302	0.6185	0.143	0.4514
NM_028003	Rpap3	RNA polymer	71919	2.2302	0.6185	0.143	0.5594
NM_028003	Rpap3	RNA polymer	71919	2.2302	0.6185	0.143	0.5594
NM_028003	Rpap3	RNA polymer	71919	2.0921	0.7842	0.393	0.9425
NM_028003	Rpap3	RNA polymer	71919	2.4088	0.8785	0.4827	1.107
NM_027898	Gramd1a	GRAM doma	52857	2.2332	0.1944	0.0703	0
NM_027898	Gramd1a	GRAM doma	52857	2.5287	0.3028	0.0276	0
NM_027898	Gramd1a	GRAM doma	52857	2.5673	0.7816	0.3136	0.0015
NM_027898	Gramd1a	GRAM doma	52857	2.8059	0.8419	0.7112	0.0866
NM_027878	Dram1	DNA-damage	71712	3.164	0.6374	0.4289	0.6022
NM_027878	Dram1	DNA-damage	71712	3.164	0.6374	0.4289	0.6022
NM_027878	Dram1	DNA-damage	71712	2.1079	0.7766	0.5168	0.6943
NM_027866	Colec11	collectin sub-	71693	2.7972	0.5843	0.3439	0.6719
NM_027866	Colec11	collectin sub-	71693	2.0521	0.5843	0.3439	0.4885
NM_027866	Colec11	collectin sub-	71693	2.3309	0.6465	1.0165	0.5875
NM_027866	Colec11	collectin sub-	71693	2.0493	0.687	0.1453	0.785
NM_027866	Colec11	collectin sub-	71693	2.0493	0.687	0.1453	0.785
NM_027654	Pcgf6	polycomb gro	71041	2.9999	0.727	0.3799	0.3578
NM_027654	Pcgf6	polycomb gro	71041	2.9999	0.727	0.3799	0.3578
NM_027654	Pcgf6	polycomb gro	71041	2.9999	0.727	0.3799	0.3578
NM_027654	Pcgf6	polycomb gro	71041	2.9999	0.727	0.3799	0.3578
NM_027654	Pcgf6	polycomb gro	71041	3.5373	0.8841	0.157	0.4509
NM_027654	Pcgf6	polycomb gro	71041	3.5051	0.8841	0.5942	0.5663
NM_027490	Dcp2	DCP2 decapp	70640	2.326	0.7765	0.7319	1.2933
NM_027490	Dcp2	DCP2 decapp	70640	2.1628	0.7851	0.3305	0.6375
NM_027490	Dcp2	DCP2 decapp	70640	2.728	0.9412	0.8896	1.5373
NM_027490	Dcp2	DCP2 decapp	70640	2.3562	0.9815	0.5106	1.1335
NM_027338	Vps36	vacuolar prot	70160	2.3179	0.738	0.3649	0.7651
NM_027338	Vps36	vacuolar prot	70160	2.3179	0.738	0.3649	0.7651
NM_027338	Vps36	vacuolar prot	70160	2.2799	0.9209	0.5606	1.0177

NM_027321	Lrrc39	leucine rich r	109245	2.2422	0.4541	0.1817	0.0193
NM_027321	Lrrc39	leucine rich r	109245	2.6314	0.568	0.2459	0.0548
NM_027321	Lrrc39	leucine rich r	109245	2.4324	0.844	0.3542	0.5325
NM_027289	Nt5dc2	5'-nucleotida	70021	2.6583	0.8754	0.918	0.899
NM_027289	Nt5dc2	5'-nucleotida	70021	2.6583	0.8754	0.918	0.899
NM_027289	Nt5dc2	5'-nucleotida	70021	2.6583	0.8754	0.3097	0.899
NM_027289	Nt5dc2	5'-nucleotida	70021	2.5376	0.8754	0.918	0.899
NM_027289	Nt5dc2	5'-nucleotida	70021	2.426	0.8754	1.0659	1.6631
NM_027289	Nt5dc2	5'-nucleotida	70021	2.426	0.8754	1.0659	1.3804
NM_027289	Nt5dc2	5'-nucleotida	70021	2.426	0.8754	0.9926	0.899
NM_027269	1110034A24	RIKEN cDNA	109065	2.1083	0.8364	0.6786	0.5625
NM_027269	1110034A24	RIKEN cDNA	109065	2.1083	0.9005	1.0191	1.3401
NM_027269	1110034A24	RIKEN cDNA	109065	2.3043	0.9689	0.7925	0.6584
NM_027250	2010305A19	RIKEN cDNA	69893	2.0434	0.89	0.239	0.4434
NM_027250	2010305A19	RIKEN cDNA	69893	2.0434	0.9362	0.5036	0.4434
NM_027250	2010305A19	RIKEN cDNA	69893	2.1226	0.9858	0.315	0.5556
NM_027163	Il1f8	interleukin 1	69677	2.7525	0.9372	1.1894	1.7357
NM_027163	Il1f8	interleukin 1	69677	2.4	0.9372	1.1894	1.3793
NM_027163	Il1f8	interleukin 1	69677	2.4	0.9372	1.1894	1.3793
NM_026668	Lrriq4	leucine-rich r	68307	2.033	0.7941	0.7266	0.6762
NM_026668	Lrriq4	leucine-rich r	68307	2.3051	0.9216	0.3011	0.7165
NM_026668	Lrriq4	leucine-rich r	68307	2.3051	0.9216	0.3011	0.7165
NM_026507	Zwilch	Zwilch, kinet	68014	2.115	0.4265	0.1644	0.182
NM_026507	Zwilch	Zwilch, kinet	68014	2.0848	0.9616	0.9645	0.4453
NM_026507	Zwilch	Zwilch, kinet	68014	2.0848	0.9616	0.9645	0.4453
NM_026257	Ubxn11	UBX domain	67586	2.6162	0.5157	0.4333	0.5968
NM_026257	Ubxn11	UBX domain	67586	2.7109	0.6214	0.9584	0.7183
NM_026257	Ubxn11	UBX domain	67586	3.4073	0.9649	0.6691	0.8096
NM_026257	Ubxn11	UBX domain	67586	3.4073	0.9649	0.6691	0.8096
NM_026214	Kctd4	potassium ch	67516	2.1657	0.8222	0.4278	0.4411
NM_026214	Kctd4	potassium ch	67516	2.5465	0.8431	0.5174	0.2559
NM_026214	Kctd4	potassium ch	67516	2.9234	0.9059	0.7224	0.4025
NM_026214	Kctd4	potassium ch	67516	2.9234	0.9059	0.7224	0.4025
NM_026137	Wdr13	WD repeat d	73447	2.6883	0.3371	0.5215	0.287
NM_026137	Wdr13	WD repeat d	73447	2.6883	0.3371	0.5215	0.287
NM_026137	Wdr13	WD repeat d	73447	2.6883	0.3371	0.5215	0.287
NM_026137	Wdr13	WD repeat d	73447	2.877	0.4086	0.6164	0.6204
NM_026137	Wdr13	WD repeat d	73447	2.877	0.4086	0.6164	0.3517
NM_026137	Wdr13	WD repeat d	73447	2.877	0.6949	0.9004	1.3538
NM_026032	Lsm1	LSM1 homolo	67207	2.0088	0.5107	0.3322	0.2425
NM_026032	Lsm1	LSM1 homolo	67207	2.0088	0.5107	0.3322	0.2425
NM_026032	Lsm1	LSM1 homolo	67207	2.2781	0.6043	0.2391	0.3007
NM_026032	Lsm1	LSM1 homolo	67207	2.4813	0.8653	0.1892	0.2425
NM_026032	Lsm1	LSM1 homolo	67207	2.1993	0.9171	0.3599	0.497
NM_025983	Atp5e	ATP synthase	67126	2.3903	0.8685	0.7724	0.6283
NM_025983	Atp5e	ATP synthase	67126	2.6332	0.8915	0.3167	0.4632
NM_025983	Atp5e	ATP synthase	67126	2.6332	0.8915	0.3167	0.4632
NM_025983	Atp5e	ATP synthase	67126	2.6332	0.8915	0.3167	0.6514
NM_025983	Atp5e	ATP synthase	67126	2.6332	0.8915	0.2579	0.239
NM_025983	Atp5e	ATP synthase	67126	2.0217	0.9296	0.4046	0.4245
NM_025911	Ccdc91	coiled-coil dc	67015	2.051	0.8399	0.5175	1.0491
NM_025911	Ccdc91	coiled-coil dc	67015	2.051	0.8399	0.38	0.3998
NM_025911	Ccdc91	coiled-coil dc	67015	2.051	0.8399	0.38	0.3998

NM_025873	Trit1	tRNA isopent	66966	2.2779	0.7689	1.9249	1.746
NM_025873	Trit1	tRNA isopent	66966	2.179	0.835	1.0076	1.4197
NM_025873	Trit1	tRNA isopent	66966	2.5786	0.9844	2.3149	2.1098
NM_025873	Trit1	tRNA isopent	66966	2.5786	0.9844	2.3149	2.1098
NM_025720	Krtap3-2	keratin assoc	66708	2.0422	0.3622	0.3158	0.985
NM_025720	Krtap3-2	keratin assoc	66708	2.3178	0.5313	0.3158	0.985
NM_025720	Krtap3-2	keratin assoc	66708	2.3178	0.5313	0.3158	0.985
NM_025720	Krtap3-2	keratin assoc	66708	2.0422	0.5313	0.3158	0.985
NM_025571	Magmas	mitochondria	66449	2.4627	0.8181	0.9503	1.2394
NM_025571	Magmas	mitochondria	66449	2.4627	0.8181	0.9503	1.2394
NM_025571	Magmas	mitochondria	66449	2.4627	0.8181	0.9503	1.3072
NM_025431	Llph	LLP homolog	66225	2.3758	0.3537	0.0007	0.3896
NM_025431	Llph	LLP homolog	66225	3.6356	0.8468	0.2131	1.0838
NM_025431	Llph	LLP homolog	66225	2.3758	0.8468	0.0361	0.6913
NM_025385	Prr13	proline rich 1	66151	2.2373	0.4498	0.2672	0.503
NM_025385	Prr13	proline rich 1	66151	2.2373	0.4498	0.2672	0.503
NM_025385	Prr13	proline rich 1	66151	2.6257	0.563	0.3486	0.6248
NM_025385	Prr13	proline rich 1	66151	2.6257	0.563	0.3486	0.6248
NM_025385	Prr13	proline rich 1	66151	2.6257	0.563	0.3486	0.6248
NM_025385	Prr13	proline rich 1	66151	2.6257	0.563	0.3486	0.6248
NM_025378	Ifitm3	interferon ind	66141	2.4395	0.4397	0.5716	0.0217
NM_025378	Ifitm3	interferon ind	66141	3.0505	0.6025	0.7651	0.2052
NM_025378	Ifitm3	interferon ind	66141	2.6827	0.9287	1.151	0.3697
NM_025330	Hsd17b14	hydroxysteroid	66065	2.0388	0.4082	0.6714	0.4257
NM_025330	Hsd17b14	hydroxysteroid	66065	2.3969	0.7536	0.8198	0.5705
NM_025330	Hsd17b14	hydroxysteroid	66065	2.104	0.9168	0.9755	1.372
NM_025305	Mrps7	mitochondrial	50529	2.2092	0.9102	0.5994	0.4127
NM_025305	Mrps7	mitochondrial	50529	2.2092	0.9102	0.5994	0.4127
NM_025305	Mrps7	mitochondrial	50529	2.2092	0.946	0.9526	0.4127
NM_024456	Rab5c	RAB5C, mem	19345	2.6309	0.8149	0.2023	0.526
NM_024456	Rab5c	RAB5C, mem	19345	2.1224	0.8149	0.2023	0.526
NM_024456	Rab5c	RAB5C, mem	19345	2.0869	0.9449	0.3127	0.7846
NM_024456	Rab5c	RAB5C, mem	19345	2.0869	0.9449	0.3127	0.7846
NM_024456	Rab5c	RAB5C, mem	19345	2.0869	0.9449	0.3127	0.7846
NM_024456	Rab5c	RAB5C, mem	19345	2.0869	0.9449	0.1953	0.8304
NM_024207	Der1	Der1-like dor	67819	2.1687	0.7647	0.5555	0.4621
NM_024207	Der1	Der1-like dor	67819	2.135	0.7829	0.2111	0.1541
NM_024207	Der1	Der1-like dor	67819	2.135	0.7829	0.1106	0.1014
NM_024207	Der1	Der1-like dor	67819	2.4574	0.9262	0.3452	0.2502
NM_024207	Der1	Der1-like dor	67819	2.4574	0.9262	0.3452	0.2502
NM_024185	Fam188a	family with s	66960	2.1177	0.4485	0.2637	0.7662
NM_024185	Fam188a	family with s	66960	2.3349	0.4914	0.4559	0.7076
NM_024185	Fam188a	family with s	66960	2.6998	0.8073	0.4454	1.0713
NM_024185	Fam188a	family with s	66960	3.106	0.9284	0.8931	1.2856
NM_023633	2410016O06	RIKEN cDNA	71952	2.417	0.719	0.348	0.4108
NM_023633	2410016O06	RIKEN cDNA	71952	2.417	0.719	0.348	0.4108
NM_023633	2410016O06	RIKEN cDNA	71952	2.0877	0.719	0.4516	0.201
NM_023472	Ankra2	ankyrin repe	68558	2.5228	0.9466	1.0999	0.8718
NM_023472	Ankra2	ankyrin repe	68558	2.4504	0.9466	0.7545	0.5532
NM_023472	Ankra2	ankyrin repe	68558	2.4235	0.9466	1.0999	0.8718
NM_023289	Ceacam11	carcinoembr	66996	2.1825	0.5763	0.1468	0.4877
NM_023289	Ceacam11	carcinoembr	66996	2.1825	0.5763	0.123	0.3343

NM_023289	Ceacam11	carcinoembr	66996	2.4721	0.6779	0.8697	0.7377
NM_023289	Ceacam11	carcinoembr	66996	2.4721	0.6779	0.2991	0.7377
NM_023289	Ceacam11	carcinoembr	66996	2.0483	0.994	1.4879	1.1607
NM_023126	Rab8a	RAB8A, mem	17274	2.1163	0.6124	0.2572	0.3504
NM_023126	Rab8a	RAB8A, mem	17274	2.1163	0.6124	0.2572	0.3504
NM_023126	Rab8a	RAB8A, mem	17274	2.1163	0.6124	0.2771	0.3504
NM_023126	Rab8a	RAB8A, mem	17274	2.4362	0.7328	0.3258	0.4337
NM_021782	Il21	interleukin 2	60505	2.2895	0.6005	0.6975	0.4807
NM_021782	Il21	interleukin 2	60505	2.2895	0.6005	0.4289	0.4807
NM_021782	Il21	interleukin 2	60505	2.5915	0.7885	0.5124	0.5707
NM_021782	Il21	interleukin 2	60505	2.5915	0.7885	0.5124	0.5707
NM_021782	Il21	interleukin 2	60505	2.5915	0.7885	0.5124	0.5707
NM_021782	Il21	interleukin 2	60505	2.5915	0.7885	0.5124	0.5707
NM_021782	Il21	interleukin 2	60505	2.5915	0.7885	0.5124	0.5707
NM_021782	Il21	interleukin 2	60505	2.7065	0.8377	0.5124	0.5707
NM_021545	Naip7	NLR family, a	53880	2.1852	0.9542	0.4387	0.4575
NM_021545	Naip7	NLR family, a	53880	2.1316	0.9542	0.4387	0.4575
NM_021545	Naip7	NLR family, a	53880	2.1316	0.9542	0.4387	0.4575
NM_021513	Thap11	THAP domain	59016	2.1193	0.7635	1.0849	1.0504
NM_021513	Thap11	THAP domain	59016	2.1193	0.7635	1.0849	1.0504
NM_021513	Thap11	THAP domain	59016	2.0123	0.8564	1.1851	1.3335
NM_021457	Fzd1	frizzled homc	14362	2.1586	0.6786	0.3186	0.3655
NM_021457	Fzd1	frizzled homc	14362	2.1586	0.6786	0.3186	0.3655
NM_021457	Fzd1	frizzled homc	14362	2.1586	0.6786	0.3186	0.3655
NM_021457	Fzd1	frizzled homc	14362	2.1586	0.6786	0.3186	0.3655
NM_021457	Fzd1	frizzled homc	14362	3.4354	0.8944	1.0535	0.9573
NM_021382	Tacr3	tachykinin re	21338	2.2596	0.7661	0.7972	1.1896
NM_021382	Tacr3	tachykinin re	21338	2.6515	0.9292	0.9651	1.4177
NM_021382	Tacr3	tachykinin re	21338	2.6515	0.9292	0.9651	1.4177
NM_021381	Prokr1	prokineticin r	58182	2.0965	0.6381	0.1186	0.3027
NM_021381	Prokr1	prokineticin r	58182	2.0877	0.808	0.1775	0.5481
NM_021381	Prokr1	prokineticin r	58182	2.0877	0.808	0.1775	0.5481
NM_021381	Prokr1	prokineticin r	58182	2.0877	0.808	0.1775	0.5481
NM_021381	Prokr1	prokineticin r	58182	2.4532	0.9775	0.3454	0.8039
NM_021285	Myl1	myosin, light	17901	2.1738	0.9235	1.0261	0.5562
NM_021285	Myl1	myosin, light	17901	2.1738	0.9235	0.6049	0.5562
NM_021285	Myl1	myosin, light	17901	2.1738	0.9235	0.6049	0.5562
NM_020493	Srf	serum respon	20807	2.992	0.6462	0.8179	0.543
NM_020493	Srf	serum respon	20807	2.992	0.6462	0.8179	0.543
NM_020493	Srf	serum respon	20807	3.496	0.9246	1.0746	0.7976
NM_020272	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_020272	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_020272	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_020272	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_019959	C1qtnf1	C1q and tum	56745	2.5231	0.8667	0.4104	0.6821
NM_019959	C1qtnf1	C1q and tum	56745	2.5231	0.8667	0.4104	0.6129
NM_019959	C1qtnf1	C1q and tum	56745	2.0392	0.9006	0.1233	1.5759
NM_019959	C1qtnf1	C1q and tum	56745	3.6916	0.9455	0.2275	1.5753
NM_019959	C1qtnf1	C1q and tum	56745	3.6916	0.9455	0.2275	1.5753
NM_019959	C1qtnf1	C1q and tum	56745	2.3489	0.9455	0.1668	1.8243
NM_019826	Ivd	isovaleryl coe	56357	2.0518	0.9001	0.6757	1.1052
NM_019826	Ivd	isovaleryl coe	56357	2.0518	0.9001	0.6757	1.1052
NM_019826	Ivd	isovaleryl coe	56357	2.0518	0.9001	0.6757	1.1052

NM_019778	Zbtb20	zinc finger ar	56490	2.3251	0.804	0.5144	0.9701
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	1.3566	1.2499
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	1.3566	1.2499
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	0.6225	1.1182
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	0.6225	1.1182
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	0.6225	1.1182
NM_019778	Zbtb20	zinc finger ar	56490	2.6313	0.9327	0.6085	1.1138
NM_019663	Pias1	protein inhib	56469	2.0327	0.3552	0.1856	0.6866
NM_019663	Pias1	protein inhib	56469	2.0327	0.4307	0.1856	0.5897
NM_019663	Pias1	protein inhib	56469	2.6435	0.9745	0.6422	1.1715
NM_019583	Il17rb	interleukin 1	50905	2.1953	0.4261	0.8848	0.5121
NM_019583	Il17rb	interleukin 1	50905	2.0863	0.8319	0.5556	0.2804
NM_019583	Il17rb	interleukin 1	50905	2.6723	0.9639	0.6548	0.6473
NM_019583	Il17rb	interleukin 1	50905	2.3647	0.9639	0.6548	0.3441
NM_019583	Il17rb	interleukin 1	50905	2.3647	0.9639	0.6548	0.3441
NM_019519	Rabggta	Rab geranyl	56187	2.0357	0.0866	0.042	0.0272
NM_019519	Rabggta	Rab geranyl	56187	2.9213	0.117	0.1901	0.0412
NM_019519	Rabggta	Rab geranyl	56187	2.6199	0.117	0.1901	0.0412
NM_019519	Rabggta	Rab geranyl	56187	2.4418	0.117	0.1027	0.0412
NM_019519	Rabggta	Rab geranyl	56187	2.4418	0.117	0.1027	0.0412
NM_019519	Rabggta	Rab geranyl	56187	2.4418	0.117	0.1027	0.0412
NM_019519	Rabggta	Rab geranyl	56187	2.0357	0.1795	0.042	0.0595
NM_019519	Rabggta	Rab geranyl	56187	2.0357	0.1795	0.042	0.0595
NM_019519	Rabggta	Rab geranyl	56187	4.2017	0.4974	0.731	0.2648
NM_019519	Rabggta	Rab geranyl	56187	4.442	0.7023	1.1247	0.6101
NM_019519	Rabggta	Rab geranyl	56187	3.2208	0.7561	0.4169	0.5136
NM_019519	Rabggta	Rab geranyl	56187	5.0696	0.9431	1.3134	0.7301
NM_019453	Mefv	Mediterrane	54483	2.2192	0.5233	0.2293	0.4469
NM_019453	Mefv	Mediterrane	54483	2.0402	0.6315	0.2932	0.5335
NM_019453	Mefv	Mediterrane	54483	2.0402	0.6315	0.2932	0.5335
NM_019453	Mefv	Mediterrane	54483	2.0402	0.6315	0.2932	0.5335
NM_019453	Mefv	Mediterrane	54483	2.3132	0.7397	0.3587	0.63
NM_019453	Mefv	Mediterrane	54483	2.3132	0.7397	0.3587	0.63
NM_017466	Ccr12	chemokine (C	54199	2.1121	0.329	0.2525	0.0003
NM_017466	Ccr12	chemokine (C	54199	2.858	0.3995	0.3203	0.0007
NM_017466	Ccr12	chemokine (C	54199	2.6684	0.3995	0.3203	0.0007
NM_017466	Ccr12	chemokine (C	54199	3.1021	0.8949	0.6408	0.0008
NM_016975	Gja3	gap junction	14611	2.2517	0.5394	0.5156	0.7091
NM_016975	Gja3	gap junction	14611	2.0633	0.5394	0.5156	0.7091
NM_016975	Gja3	gap junction	14611	2.5493	0.7817	0.6892	0.8266
NM_016958	Krt14	keratin 14	16664	3.1696	0.5858	0.5713	0.9052
NM_016958	Krt14	keratin 14	16664	3.1696	0.5858	0.5713	0.9052
NM_016958	Krt14	keratin 14	16664	3.1696	0.5858	0.5713	0.9052
NM_016958	Krt14	keratin 14	16664	2.9133	0.8647	0.5506	0.2838
NM_016958	Krt14	keratin 14	16664	2.9133	0.8647	0.5506	0.2838
NM_016912	Cdkl2	cyclin-depen	53886	2.1785	0.6803	0.4619	0.5764
NM_016912	Cdkl2	cyclin-depen	53886	2.1785	0.6803	0.4619	0.5764
NM_016912	Cdkl2	cyclin-depen	53886	2.9644	0.8342	0.7916	1.3391
NM_016912	Cdkl2	cyclin-depen	53886	2.6284	0.8579	0.5986	0.7348
NM_016879	Krt85	keratin 85	53622	2.5019	0.678	0.4782	0.3584
NM_016879	Krt85	keratin 85	53622	2.5019	0.678	0.4782	0.3584
NM_016879	Krt85	keratin 85	53622	2.9749	0.7918	0.5678	0.4328
NM_016774	Atp5b	ATP synthase	11947	2.031	0.4171	0.0007	0.493

NM_016774	Atp5b	ATP synthase	11947	2.3396	0.5113	0.0444	0.7945
NM_016774	Atp5b	ATP synthase	11947	2.3396	0.5113	0.0444	0.7945
NM_016758	Rgs14	regulator of G	51791	2.239	0.0869	0.1475	0.0993
NM_016758	Rgs14	regulator of G	51791	2.239	0.0869	0.1022	0
NM_016758	Rgs14	regulator of G	51791	2.239	0.54	0.6576	0.2221
NM_016758	Rgs14	regulator of G	51791	2.2351	0.5601	1.161	1.1097
NM_016758	Rgs14	regulator of G	51791	2.7252	0.7142	0.5691	0.2221
NM_016758	Rgs14	regulator of G	51791	2.3496	0.7142	0.5691	0.2221
NM_016758	Rgs14	regulator of G	51791	2.7252	0.7987	0.5691	0.2221
NM_016738	Rpl13	ribosomal pro	270106	2.1858	0.5551	0.4418	0.1065
NM_016738	Rpl13	ribosomal pro	270106	2.5149	0.6676	0.5385	0.2043
NM_016738	Rpl13	ribosomal pro	270106	2.5149	0.6676	0.5385	0.2043
NM_016738	Rpl13	ribosomal pro	270106	2.4636	0.6676	0.5385	0.4244
NM_016738	Rpl13	ribosomal pro	270106	2.4636	0.6676	0.5385	0.4244
NM_013855	Abca3	ATP-binding c	27410	2.3893	0.1495	0.0553	0.0429
NM_013855	Abca3	ATP-binding c	27410	2.3875	0.1595	0.1141	0.0945
NM_013855	Abca3	ATP-binding c	27410	2.3875	0.1595	0.1141	0.0257
NM_013855	Abca3	ATP-binding c	27410	2.0748	0.5012	0.4105	0.38
NM_013854	Abcf1	ATP-binding c	224742	2.0213	0.9698	0.5142	0.7367
NM_013854	Abcf1	ATP-binding c	224742	2.0213	0.9698	0.5142	0.7367
NM_013854	Abcf1	ATP-binding c	224742	2.0213	0.9698	0.5142	0.7367
NM_013827	Mtf2	metal respon	17765	2.2525	0.8411	0.4503	0.7452
NM_013827	Mtf2	metal respon	17765	2.2525	0.8411	0.4503	0.7452
NM_013827	Mtf2	metal respon	17765	2.2525	0.8411	0.4503	0.7452
NM_013811	Dnahc8	dynein, axon	13417	2.3301	0.6696	0.1909	0.444
NM_013811	Dnahc8	dynein, axon	13417	2.1613	0.7556	0.0972	0.4919
NM_013811	Dnahc8	dynein, axon	13417	2.8076	0.8453	0.2697	0.5771
NM_013811	Dnahc8	dynein, axon	13417	2.5381	0.917	0.1408	0.612
NM_013765	Rps26	ribosomal pro	27370	2.058	0.5492	0.895	0.392
NM_013765	Rps26	ribosomal pro	27370	2.3831	0.6609	1.0532	0.4815
NM_013765	Rps26	ribosomal pro	27370	2.3831	0.6609	1.0532	0.4815
NM_013765	Rps26	ribosomal pro	27370	2.058	0.9188	0.6033	0.199
NM_013765	Rps26	ribosomal pro	27370	2.058	0.9188	0.6033	0.199
NM_013745	Nufip1	nuclear fragil	27275	2.0287	0.8259	1.117	0.6343
NM_013745	Nufip1	nuclear fragil	27275	2.0287	0.8259	1.117	0.6343
NM_013745	Nufip1	nuclear fragil	27275	2.0287	0.8259	1.117	0.6343
NM_013745	Nufip1	nuclear fragil	27275	2.0287	0.8259	1.117	0.6343
NM_011940	Ifi202b	interferon ac	26388	2.0555	0.6092	0.1147	0.23
NM_011940	Ifi202b	interferon ac	26388	2.0555	0.6092	0.1147	0.23
NM_011940	Ifi202b	interferon ac	26388	2.8123	0.6151	0.3491	0.6414
NM_011940	Ifi202b	interferon ac	26388	2.3674	0.729	0.1562	0.3304
NM_011741	Zan	zonadhesin	22635	2.0455	0.8263	0.6126	1.4219
NM_011741	Zan	zonadhesin	22635	2.0455	0.9414	0.6196	1.4219
NM_011741	Zan	zonadhesin	22635	2.356	0.9754	0.733	1.6499
NM_011741	Zan	zonadhesin	22635	2.356	0.9754	0.733	1.6499
NM_011741	Zan	zonadhesin	22635	2.356	0.9754	0.733	1.6499
NM_011731	Slc6a20b	solute carrier	22599	2.1728	0.2338	0.0757	0.0774
NM_011731	Slc6a20b	solute carrier	22599	2.1728	0.2338	0.0757	0.0774
NM_011731	Slc6a20b	solute carrier	22599	2.1316	0.2907	0.1445	0.1469
NM_011723	Xdh	xanthine deh	22436	2.9488	0.8628	0.8869	0.1061
NM_011723	Xdh	xanthine deh	22436	2.5141	0.8628	0.8869	0
NM_011723	Xdh	xanthine deh	22436	2.5141	0.8628	0.8869	0.1061
NM_011723	Xdh	xanthine deh	22436	4.2343	0.9618	0.8869	0.1061

NM_011681	Scgb1a1	secretoglobi	22287	2.048	0.6651	0.3728	0.3635
NM_011681	Scgb1a1	secretoglobi	22287	2.048	0.7313	0.3952	0.6868
NM_011681	Scgb1a1	secretoglobi	22287	2.5325	0.8733	0.3384	0.8042
NM_011681	Scgb1a1	secretoglobi	22287	2.4259	0.9875	0.7339	0.9969
NM_011670	Uchl1	ubiquitin car	22223	2.3829	0.9061	0.5049	0.3939
NM_011670	Uchl1	ubiquitin car	22223	2.3829	0.9061	0.5049	0.3939
NM_011670	Uchl1	ubiquitin car	22223	2.3829	0.9061	0.5049	0.3939
NM_011670	Uchl1	ubiquitin car	22223	2.3829	0.9061	0.5049	0.3939
NM_011644	Trpc2	transient rec	22064	2.2851	0.8463	0.3685	0.6792
NM_011644	Trpc2	transient rec	22064	2.2851	0.8463	0.3685	0.6792
NM_011644	Trpc2	transient rec	22064	2.0561	0.8463	0.3685	0.6792
NM_011644	Trpc2	transient rec	22064	2.6273	0.998	0.4545	0.8086
NM_011358	Srsf2	serine/argini	20382	2.1223	0.1852	0	0
NM_011358	Srsf2	serine/argini	20382	2.5051	0.5101	0.0154	0.0039
NM_011358	Srsf2	serine/argini	20382	2.8764	0.6164	0.0263	0.0131
NM_011358	Srsf2	serine/argini	20382	2.4096	0.6766	0.587	0.7163
NM_011358	Srsf2	serine/argini	20382	2.8244	0.8258	0.1322	0.2154
NM_011312	S100a5	S100 calcium	20199	2.0865	0.1596	0.212	0.1776
NM_011312	S100a5	S100 calcium	20199	2.4519	0.2976	0.3769	0.4296
NM_011312	S100a5	S100 calcium	20199	2.3336	0.4594	0.1495	0
NM_011312	S100a5	S100 calcium	20199	2.3336	0.4594	0.1495	0
NM_011312	S100a5	S100 calcium	20199	2.8162	0.5382	0.5525	0.7138
NM_011312	S100a5	S100 calcium	20199	2.7368	0.5741	0.2494	0.0001
NM_011312	S100a5	S100 calcium	20199	3.1388	0.6893	0.3942	0.0253
NM_011312	S100a5	S100 calcium	20199	3.1388	0.6893	0.3942	0.0253
NM_011312	S100a5	S100 calcium	20199	3.1796	0.7995	0.7323	1.0124
NM_011312	S100a5	S100 calcium	20199	3.2893	0.9501	1.0905	0.4074
NM_011311	S100a4	S100 calcium	20198	2.7734	0.3911	0.3508	0.393
NM_011311	S100a4	S100 calcium	20198	2.3336	0.4594	0.1495	0
NM_011311	S100a4	S100 calcium	20198	2.3336	0.4594	0.1495	0
NM_011311	S100a4	S100 calcium	20198	2.7368	0.5741	0.2494	0.0001
NM_011311	S100a4	S100 calcium	20198	3.0928	0.6696	0.3508	0.1384
NM_011311	S100a4	S100 calcium	20198	3.1388	0.6893	0.3942	0.0253
NM_011311	S100a4	S100 calcium	20198	3.1388	0.6893	0.3942	0.0253
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.2522	0.0183
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.5481	0.2965
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.5481	0.2965
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.4254	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.4084	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.4084	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.2313	0.9112	0.1339	0.003
NM_011311	S100a4	S100 calcium	20198	3.2893	0.9501	1.0905	0.4074
NM_011310	S100a3	S100 calcium	20197	2.7734	0.3911	0.3508	0.393
NM_011310	S100a3	S100 calcium	20197	3.0928	0.6696	0.3508	0.1384
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.2522	0.0183
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.5481	0.2965
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.5481	0.2965
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.1339	0.003
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.1339	0.003
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.1339	0.003
NM_011310	S100a3	S100 calcium	20197	3.4254	0.9112	0.1339	0.003
NM_011310	S100a3	S100 calcium	20197	3.4084	0.9112	0.1339	0.003

NM_011310	S100a3	S100 calcium	20197	3.4084	0.9112	0.1339	0.003
NM_011310	S100a3	S100 calcium	20197	3.2313	0.9112	0.1339	0.003
NM_011250	Rbl2	retinoblastor	19651	2.1655	0.6343	0.2146	1.4236
NM_011250	Rbl2	retinoblastor	19651	2.1655	0.6343	0.2146	1.4236
NM_011250	Rbl2	retinoblastor	19651	2.1655	0.6343	0.2146	1.4236
NM_011250	Rbl2	retinoblastor	19651	2.1655	0.6343	0.2146	1.4236
NM_011106	Pkig	protein kinas	18769	2.1822	0.4946	0.3544	0.1397
NM_011106	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_011106	Pkig	protein kinas	18769	2.1822	0.9779	0.5545	0.233
NM_011086	Pikfyve	phosphoinos	18711	2.2322	0.3917	1.102	1.5277
NM_011086	Pikfyve	phosphoinos	18711	2.5275	0.5429	1.2656	1.7409
NM_011086	Pikfyve	phosphoinos	18711	2.6539	0.7861	1.2656	2.177
NM_011073	Prf1	perforin 1 (p	18646	2.9314	0.8918	0.7196	0.5884
NM_011073	Prf1	perforin 1 (p	18646	2.9314	0.8918	0.7196	0.5884
NM_011073	Prf1	perforin 1 (p	18646	2.9314	0.8918	0.7196	0.5884
NM_011073	Prf1	perforin 1 (p	18646	2.9314	0.8918	0.7196	0.5884
NM_011073	Prf1	perforin 1 (p	18646	2.9314	0.8918	0.7196	0.5884
NM_011042	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.7975	0.8503
NM_011042	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3733	0.2361
NM_011042	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_011042	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_010944	Musk	muscle, skele	18198	2.1283	0.7377	0.3259	0.6408
NM_010944	Musk	muscle, skele	18198	2.1926	0.9652	1.4587	1.4222
NM_010944	Musk	muscle, skele	18198	2.6699	0.9689	0.4607	0.8501
NM_010877	Ncf2	neutrophil cy	17970	2.0656	0.4974	0.2084	0.6344
NM_010877	Ncf2	neutrophil cy	17970	2.3788	0.6432	0.2686	0.7972
NM_010877	Ncf2	neutrophil cy	17970	2.0375	0.7149	0.689	0.8305
NM_010877	Ncf2	neutrophil cy	17970	2.8176	0.8382	0.689	1.0791
NM_010877	Ncf2	neutrophil cy	17970	2.6912	0.8382	0.3826	1.0172
NM_010871	Naip6	NLR family, a	17952	2.1852	0.9542	0.4387	0.4575
NM_010871	Naip6	NLR family, a	17952	2.1316	0.9542	0.4387	0.4575
NM_010871	Naip6	NLR family, a	17952	2.1316	0.9542	0.4387	0.4575
NM_010828	Cited2	Cbp/p300-int	17684	2.2952	0.6279	0.3614	0.1229
NM_010828	Cited2	Cbp/p300-int	17684	2.2952	0.6279	0.3614	0.1229
NM_010828	Cited2	Cbp/p300-int	17684	2.5979	0.7357	0.4362	0.1609
NM_010828	Cited2	Cbp/p300-int	17684	2.5979	0.7357	0.4362	0.1609
NM_010828	Cited2	Cbp/p300-int	17684	2.5979	0.887	0.4362	0.1609
NM_010828	Cited2	Cbp/p300-int	17684	2.5979	0.9611	0.5472	0.2166
NM_010781	Tpsb2	tryptase beta	17229	2.2292	0.6303	0.5707	0.8607
NM_010781	Tpsb2	tryptase beta	17229	2.2292	0.6303	0.1077	0.3294
NM_010781	Tpsb2	tryptase beta	17229	2.5243	0.8232	0.2038	0.4292
NM_010781	Tpsb2	tryptase beta	17229	2.5243	0.8232	0.2038	0.4324
NM_010781	Tpsb2	tryptase beta	17229	2.5243	0.833	0.2038	0.4324
NM_010766	Marco	macrophage	17167	2.0041	0.8302	0.458	0.8828
NM_010766	Marco	macrophage	17167	2.0041	0.8302	0.458	0.8828
NM_010766	Marco	macrophage	17167	2.3171	0.9619	0.3211	1.0207
NM_010742	Ly6d	lymphocyte a	17068	2.3465	0.9422	0.0628	0.0224
NM_010742	Ly6d	lymphocyte a	17068	2.3465	0.9422	0.0628	0.0224
NM_010742	Ly6d	lymphocyte a	17068	2.3465	0.9422	0.0628	0.0224
NM_010742	Ly6d	lymphocyte a	17068	2.3465	0.9422	0.0628	0.0224
NM_010742	Ly6d	lymphocyte a	17068	2.3465	0.9422	0.0628	0.0429
NM_010742	Ly6d	lymphocyte a	17068	2.3383	0.9422	0.2386	0.0459
NM_010742	Ly6d	lymphocyte a	17068	2.3383	0.9422	0.0628	0.0224

NM_010728	Lox	lysyl oxidase	16948	2.1372	0.3153	0.4109	0.2812
NM_010728	Lox	lysyl oxidase	16948	2.1372	0.3153	0.2624	0.2812
NM_010728	Lox	lysyl oxidase	16948	2.1372	0.3153	0.2624	0.2812
NM_010668	Krt2	keratin 2	16681	2.0209	0.7377	0.3155	0.4327
NM_010668	Krt2	keratin 2	16681	2.0209	0.7952	0.3155	0.6557
NM_010668	Krt2	keratin 2	16681	2.7849	0.8448	0.2483	0.5446
NM_010668	Krt2	keratin 2	16681	2.2916	0.8585	0.3841	0.5167
NM_010668	Krt2	keratin 2	16681	2.2916	0.8585	0.3841	0.5167
NM_010668	Krt2	keratin 2	16681	2.2916	0.8585	0.3841	0.5167
NM_010235	Fos1	fos-like antig	14283	2.06	0.4054	0.1464	0.4204
NM_010235	Fos1	fos-like antig	14283	2.06	0.439	0.2346	0.4204
NM_010235	Fos1	fos-like antig	14283	2.3724	0.7259	0.4575	0.514
NM_010163	Ext2	exostoses (m	14043	2.0383	0.7253	0.944	0.799
NM_010163	Ext2	exostoses (m	14043	2.0383	0.7253	0.944	0.799
NM_010163	Ext2	exostoses (m	14043	2.1498	0.8919	0.5057	0.5789
NM_010163	Ext2	exostoses (m	14043	2.1498	0.8919	0.5057	0.5789
NM_010163	Ext2	exostoses (m	14043	2.1498	0.8919	0.5057	0.5789
NM_010129	Emp3	epithelial me	13732	3.7402	0.711	0.9397	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.711	0.373	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.711	0.373	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.816	1.0388	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.816	0.5121	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.816	0.3926	1.2076
NM_010129	Emp3	epithelial me	13732	3.7402	0.816	0.373	1.2076
NM_009965	Cryba1	crystallin, be	12957	2.0998	0.9865	0.6556	0.8762
NM_009965	Cryba1	crystallin, be	12957	2.0998	0.9865	0.6556	0.8762
NM_009965	Cryba1	crystallin, be	12957	2.0998	0.9865	0.6556	0.8762
NM_009946	Cplx2	complexin 2	12890	2.0626	0.7148	0.4993	0.4427
NM_009946	Cplx2	complexin 2	12890	2.0626	0.7581	0.4993	0.4427
NM_009946	Cplx2	complexin 2	12890	2.1384	0.8489	0.6041	0.5608
NM_009946	Cplx2	complexin 2	12890	2.1384	0.8489	0.6041	0.5608
NM_009909	Cxcr2	chemokine (C	12765	2.0473	0.5268	0.489	0.7782
NM_009909	Cxcr2	chemokine (C	12765	2.4734	0.6758	0.6308	0.9738
NM_009909	Cxcr2	chemokine (C	12765	2.8367	0.8249	0.7729	1.1689
NM_009909	Cxcr2	chemokine (C	12765	2.4708	0.9274	0.4176	0.7733
NM_009909	Cxcr2	chemokine (C	12765	2.4708	0.971	0.7801	0.794
NM_009909	Cxcr2	chemokine (C	12765	2.4708	0.971	0.4176	0.7733
NM_009909	Cxcr2	chemokine (C	12765	3.2519	0.9738	0.9148	1.3634
NM_009895	Cish	cytokine indu	12700	2.1689	0.4683	0.1131	0.0531
NM_009895	Cish	cytokine indu	12700	2.4957	0.5688	0.2138	0.0783
NM_009895	Cish	cytokine indu	12700	2.1492	0.7094	0.554	0.2907
NM_009795	Capns1	calpain, smal	12336	2.6182	0.737	0.4093	0.0008
NM_009795	Capns1	calpain, smal	12336	2.0098	0.793	0.3973	0.0803
NM_009795	Capns1	calpain, smal	12336	2.0098	0.793	0.3973	0.0803
NM_009795	Capns1	calpain, smal	12336	2.0098	0.793	0.3973	0.0019
NM_009637	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_009637	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_009637	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_009637	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_009626	Adh7	alcohol dehy	11529	2.2545	0.3324	0.0178	0.0002
NM_009626	Adh7	alcohol dehy	11529	2.8799	0.7089	0.2786	0.1205
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.6137	0.6339
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.6137	0.6339

NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.6137	0.6339
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.3834	0.3213
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.3834	0.3213
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.3834	0.2753
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.3834	0.2753
NM_009626	Adh7	alcohol dehy	11529	2.1899	0.9433	0.3834	0.2753
NM_009626	Adh7	alcohol dehy	11529	2.1588	0.9508	0.6274	0.3535
NM_009582	Map3k12	mitogen-acti	26404	2.6434	0.3694	0.1733	0
NM_009582	Map3k12	mitogen-acti	26404	2.3294	0.6071	0.3252	0.0005
NM_009582	Map3k12	mitogen-acti	26404	2.31	0.767	0.4047	0
NM_009582	Map3k12	mitogen-acti	26404	2.6144	0.9821	0.4851	0.0457
NM_009558	Zfp51	zinc finger pr	22709	2.0297	0.4912	0.6555	0.9042
NM_009558	Zfp51	zinc finger pr	22709	2.3864	0.6111	0.8015	1.0885
NM_009558	Zfp51	zinc finger pr	22709	2.3864	0.6111	0.8015	1.0885
NM_009558	Zfp51	zinc finger pr	22709	2.0041	0.7313	0.9472	1.1391
NM_009556	Zfp42	zinc finger pr	22702	2.3958	0.7672	0.9018	0.6763
NM_009556	Zfp42	zinc finger pr	22702	2.3958	0.7672	0.9018	0.6763
NM_009556	Zfp42	zinc finger pr	22702	2.7149	0.9113	1.6457	1.445
NM_009556	Zfp42	zinc finger pr	22702	2.9467	0.9955	1.1813	0.9438
NM_009475	Prap1	proline-rich a	22264	2.6048	0.4135	0.087	0.0779
NM_009475	Prap1	proline-rich a	22264	3.5114	0.5724	0.3744	0.3722
NM_009475	Prap1	proline-rich a	22264	2.7139	0.6905	0.1409	0.3108
NM_009452	Tnfsf4	tumor necros	22164	2.2536	0.454	0.1976	0.6374
NM_009452	Tnfsf4	tumor necros	22164	2.4896	0.9548	0.8626	1.0203
NM_009452	Tnfsf4	tumor necros	22164	2.2536	0.9548	0.7435	0.9894
NM_009303	Syng1	synaptogyrin	20972	2.1107	0.6104	0.2632	0.0058
NM_009303	Syng1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_009303	Syng1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_009303	Syng1	synaptogyrin	20972	2.1107	0.9835	0.7845	0.2987
NM_009301	Svs5	seminal vesid	20944	2.1129	0.8209	0.7625	0.7486
NM_009301	Svs5	seminal vesid	20944	2.3944	0.9516	0.8862	0.8707
NM_009301	Svs5	seminal vesid	20944	2.3944	0.9516	0.8862	0.8707
NM_009105	Rsu1	Ras suppress	20163	2.5255	0.9413	1.2792	1.4507
NM_009105	Rsu1	Ras suppress	20163	2.1019	0.9438	0.2412	0.4827
NM_009105	Rsu1	Ras suppress	20163	2.1019	0.9438	0.2412	0.4827
NM_009105	Rsu1	Ras suppress	20163	2.1019	0.9438	0.3398	0.4827
NM_009028	Rasl2-9-ps	RAS-like, fam	19428	2.0023	0.7346	0.1735	0.363
NM_009028	Rasl2-9-ps	RAS-like, fam	19428	2.5629	0.9393	0.6589	0.4961
NM_009028	Rasl2-9-ps	RAS-like, fam	19428	2.0023	0.9564	0.1735	0.363
NM_009028	Rasl2-9-ps	RAS-like, fam	19428	2.0023	0.9564	0.1735	0.363
NM_008909	Ppl	periplakin	19041	2.6743	0.1156	0.0286	0.3737
NM_008909	Ppl	periplakin	19041	2.1616	0.3325	0.0019	0.0785
NM_008909	Ppl	periplakin	19041	2.1616	0.3325	0.0019	0.0785
NM_008909	Ppl	periplakin	19041	2.3542	0.5937	0.5817	0.6804
NM_008893	Pola2	polymerase (	18969	2.2894	0.4533	0.2345	0.1156
NM_008893	Pola2	polymerase (	18969	2.2894	0.4533	0.2345	0.1156
NM_008893	Pola2	polymerase (	18969	2.2894	0.4533	0.2345	0.1156
NM_008893	Pola2	polymerase (	18969	2.2894	0.5242	0.5865	0.4616
NM_008838	Pigf	phosphatidyl	18701	2.4709	0.4263	0.4452	0.3233
NM_008838	Pigf	phosphatidyl	18701	2.8951	0.6525	0.6762	0.5223
NM_008838	Pigf	phosphatidyl	18701	3.3181	0.8839	0.9121	0.7283
NM_008794	Pcsk7	proprotein cc	18554	2.036	0.6324	0.763	0.5363
NM_008794	Pcsk7	proprotein cc	18554	2.0062	0.7535	0.5438	0.3475

NM_008794	Pcsk7	proprotein co	18554	2.3937	0.8554	0.9256	0.6634
NM_008787	Pcnt	pericentrin (K	18541	2.0154	0.4076	0.0232	0.0073
NM_008787	Pcnt	pericentrin (K	18541	2.1865	0.4884	0.0357	0.037
NM_008787	Pcnt	pericentrin (K	18541	2.1865	0.4884	0.0357	0.037
NM_008787	Pcnt	pericentrin (K	18541	2.1865	0.4884	0.0357	0.0346
NM_008787	Pcnt	pericentrin (K	18541	2.1865	0.4884	0.0357	0.0134
NM_008787	Pcnt	pericentrin (K	18541	2.1865	0.4884	0.0357	0.0134
NM_008787	Pcnt	pericentrin (K	18541	2.0154	0.8335	0.0804	0.2596
NM_008787	Pcnt	pericentrin (K	18541	2.2367	0.9085	1.5253	1.9671
NM_008784	Iggbp1	immunoglob	18518	2.4438	0.4087	0.4831	1.1503
NM_008784	Iggbp1	immunoglob	18518	2.4438	0.4087	0.4831	0.4356
NM_008784	Iggbp1	immunoglob	18518	2.4438	0.4087	0.4831	0.4356
NM_008784	Iggbp1	immunoglob	18518	2.7638	0.4896	0.5734	1.3195
NM_008784	Iggbp1	immunoglob	18518	2.7754	0.8858	0.8562	1.3199
NM_008604	Mme	membrane m	17380	2.7316	0.4601	0.6975	1.564
NM_008604	Mme	membrane m	17380	2.3808	0.4601	0.4539	1.1271
NM_008604	Mme	membrane m	17380	2.3808	0.4601	0.4539	1.2986
NM_008476	Krt6a	keratin 6A	16687	2.5019	0.678	0.4782	0.3584
NM_008476	Krt6a	keratin 6A	16687	2.5019	0.678	0.4782	0.3584
NM_008476	Krt6a	keratin 6A	16687	2.9749	0.7918	0.5678	0.4328
NM_008437	Napsa	napsin A asp	16541	2.1625	0.8225	1.0405	0.6187
NM_008437	Napsa	napsin A asp	16541	2.1625	0.8225	1.0405	0.6187
NM_008437	Napsa	napsin A asp	16541	2.1625	0.8225	1.0405	0.6187
NM_008375	Fabp6	fatty acid bin	16204	2.2602	0.6512	0.3942	0.5827
NM_008375	Fabp6	fatty acid bin	16204	2.6521	0.7965	0.5251	0.7422
NM_008375	Fabp6	fatty acid bin	16204	3.0429	0.9416	0.7317	0.9905
NM_008375	Fabp6	fatty acid bin	16204	2.6315	0.9416	0.7317	1.0214
NM_008327	Ifi202b	interferon ac	26388	2.0555	0.6092	0.1147	0.23
NM_008327	Ifi202b	interferon ac	26388	2.0555	0.6092	0.1147	0.23
NM_008327	Ifi202b	interferon ac	26388	2.8123	0.6151	0.3491	0.6414
NM_008327	Ifi202b	interferon ac	26388	2.3674	0.729	0.1562	0.3304
NM_008317	Hyal1	hyaluronoglu	15586	2.0145	0.4009	0.3467	0.3355
NM_008317	Hyal1	hyaluronoglu	15586	2.0145	0.4009	0.3467	0.3355
NM_008317	Hyal1	hyaluronoglu	15586	2.3689	0.506	0.4425	0.4293
NM_008317	Hyal1	hyaluronoglu	15586	2.3689	0.506	0.4425	0.4293
NM_008317	Hyal1	hyaluronoglu	15586	2.7222	0.6117	0.2451	0.1714
NM_008317	Hyal1	hyaluronoglu	15586	2.2017	0.8069	0.4507	0.2441
NM_008305	Hspg2	perlecan (he	15530	2.3126	0.5092	0.5472	0.4344
NM_008305	Hspg2	perlecan (he	15530	2.3126	0.5092	0.5472	0.4344
NM_008305	Hspg2	perlecan (he	15530	2.3126	0.5092	0.5472	0.4344
NM_008211	H3f3b	H3 histone, f	15081	2.6838	0.4899	0.4637	0.4449
NM_008211	H3f3b	H3 histone, f	15081	2.0945	0.5933	0.5635	0.5421
NM_008211	H3f3b	H3 histone, f	15081	2.0945	0.5933	0.5635	0.5421
NM_008211	H3f3b	H3 histone, f	15081	2.6838	0.6363	0.4637	0.606
NM_008211	H3f3b	H3 histone, f	15081	2.3738	0.697	0.6636	0.6396
NM_008193	Guk1	guanylate kir	14923	2.1964	0.6923	0.1967	0.3345
NM_008193	Guk1	guanylate kir	14923	2.1964	0.6923	0.1967	0.3345
NM_008193	Guk1	guanylate kir	14923	2.6495	0.8722	0.401	0.4458
NM_008076	Gabbr2	gamma-amin	14409	2.987	0.7899	0.5567	0.6683
NM_008076	Gabbr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224
NM_008076	Gabbr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224
NM_008076	Gabbr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224
NM_008076	Gabbr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224

NM_008076	Gabrr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224
NM_008076	Gabrr2	gamma-amin	14409	2.7451	0.7899	0.5567	0.6224
NM_007635	Ccng2	cyclin G2	12452	2.6639	0.5125	0.1182	0
NM_007635	Ccng2	cyclin G2	12452	2.6639	0.5125	0.3076	0.0022
NM_007635	Ccng2	cyclin G2	12452	2.5181	0.5245	0.3403	0.2023
NM_007635	Ccng2	cyclin G2	12452	2.5181	0.5245	0.3403	0.0787
NM_007635	Ccng2	cyclin G2	12452	2.5181	0.5245	0.3403	0.0787
NM_007635	Ccng2	cyclin G2	12452	3.1599	0.6064	0.3751	0.0044
NM_007635	Ccng2	cyclin G2	12452	3.1599	0.6064	0.1553	0.0001
NM_007635	Ccng2	cyclin G2	12452	2.2187	0.6064	0.1846	0.0001
NM_007603	Capn6	calpain 6	12338	2.0467	0.4478	0.4888	0.1823
NM_007603	Capn6	calpain 6	12338	2.2525	0.9628	0.9419	1.6313
NM_007603	Capn6	calpain 6	12338	2.2525	0.9628	0.9419	1.6313
NM_007603	Capn6	calpain 6	12338	2.2525	0.9628	0.9419	1.6313
NM_007603	Capn6	calpain 6	12338	2.2525	0.9628	0.9419	1.6313
NM_007534	Bcl2a1b	B-cell leukem	12045	3.432	0.6412	1.0335	0.1746
NM_007534	Bcl2a1b	B-cell leukem	12045	3.1931	0.7654	1.21	0.2286
NM_007534	Bcl2a1b	B-cell leukem	12045	2.105	0.8771	0.2953	0.1191
NM_007435	Abcd1	ATP-binding c	11666	2.1887	0.829	0.2096	0.4057
NM_007435	Abcd1	ATP-binding c	11666	2.1887	0.829	0.2096	0.4057
NM_007435	Abcd1	ATP-binding c	11666	2.1887	0.829	0.2096	0.4057
NM_007417	Adra2a	adrenergic re	11551	2.4404	0.7103	1.0839	1.1678
NM_007417	Adra2a	adrenergic re	11551	2.4404	0.7103	1.0839	1.1678
NM_007417	Adra2a	adrenergic re	11551	2.4404	0.7103	1.0839	1.1678
NM_007376	Pzp	pregnancy zo	11287	2.1224	0.3579	0.0249	0.0765
NM_007376	Pzp	pregnancy zo	11287	2.1224	0.4673	0.2883	0.2705
NM_007376	Pzp	pregnancy zo	11287	2.1224	0.4673	0.2883	0.2705
NM_007376	Pzp	pregnancy zo	11287	2.1224	0.4673	0.0732	0.0765
NM_007376	Pzp	pregnancy zo	11287	2.1224	0.4673	0.0249	0.0765
NM_0011596	Ppp1r16b	protein phos	228852	2.022	0.6718	0.7758	0.6383
NM_0011596	Ppp1r16b	protein phos	228852	2.022	0.6718	0.7758	0.6383
NM_0011596	Ppp1r16b	protein phos	228852	2.2335	0.8881	1.0156	0.847
NM_0011595	Csnk1g2	casein kinase	103236	2.5508	0.9144	0.6043	0.6651
NM_0011595	Csnk1g2	casein kinase	103236	2.233	0.9144	0.4015	0.3272
NM_0011595	Csnk1g2	casein kinase	103236	2.233	0.9144	0.4015	0.3272
NM_0011463	Emp3	epithelial me	13732	3.7402	0.711	0.9397	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.711	0.373	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.711	0.373	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.816	1.0388	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.816	0.5121	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.816	0.3926	1.2076
NM_0011463	Emp3	epithelial me	13732	3.7402	0.816	0.373	1.2076
NM_0011462	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.5265	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_0011462	Pik3cg	phosphoinos	30955	2.2722	0.6056	0.5282	0.3197
NM_0011461	Psap	prosaposin	19156	2.7372	0.4	0.1211	0
NM_0011461	Psap	prosaposin	19156	2.8055	0.4652	0.5594	0
NM_0011461	Psap	prosaposin	19156	2.8055	0.4652	0.6023	0

NM_0011461	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_0011461	Psap	prosaposin	19156	2.8055	0.6355	0.993	0.0796
NM_0011461	Psap	prosaposin	19156	2.9085	0.7778	1.1828	0.0796
NM_0011461	Psap	prosaposin	19156	2.8055	0.7778	1.1828	0.0796
NM_0011458	1700019G17	RIKEN cDNA	75541	2.0118	0.7807	0.125	0.2483
NM_0011458	1700019G17	RIKEN cDNA	75541	2.1032	0.7874	0.2263	0.2483
NM_0011458	1700019G17	RIKEN cDNA	75541	2.1032	0.7874	0.2263	0.2322
NM_0011424	Gm14124	predicted ge	100216455	2.0957	0.1578	0	0
NM_0011424	Gm14124	predicted ge	100216455	3.8013	0.7034	0.1955	0.2259
NM_0011424	Gm14124	predicted ge	100216455	4.0854	0.8853	0.2755	0.3132
NM_0011424	Gm14124	predicted ge	100216455	4.0854	0.8853	0.2755	0.3132
NM_0011281	Dlgap1	discs, large (L	224997	2.262	0.7357	0.4934	0.7255
NM_0011281	Dlgap1	discs, large (L	224997	2.2357	0.7929	0.3902	0.5899
NM_0011281	Dlgap1	discs, large (L	224997	2.6239	0.9602	0.4934	0.7255
NM_0011281	Dlgap1	discs, large (L	224997	2.6239	0.9602	0.4934	0.7255
NM_0011233	Gm3417	predicted ge	100041586	2.5813	0.8527	0.4159	0.5658
NM_0011233	Gm3417	predicted ge	100041586	2.3557	0.8938	0.4448	0.6571
NM_0011233	Gm3417	predicted ge	100041586	3.4206	0.9324	0.987	1.1742
NM_0011233	Gm3448	predicted ge	100041639	2.5813	0.8527	0.4159	0.5658
NM_0011233	Gm3448	predicted ge	100041639	2.3557	0.8938	0.4448	0.6571
NM_0011233	Gm3448	predicted ge	100041639	3.4206	0.9324	0.987	1.1742
NM_0011143	Clasp2	CLIP associat	76499	2.298	0.2174	0.0108	0
NM_0011143	Clasp2	CLIP associat	76499	2.3743	0.2792	0.0191	0
NM_0011143	Clasp2	CLIP associat	76499	2.6862	0.3428	0.0301	0
NM_0011143	Clasp2	CLIP associat	76499	2.594	0.9328	0.4539	0.0186
NM_0011134	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5237	0.5899
NM_0011134	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5402	0.5899
NM_0011134	Lair1	leukocyte-ass	52855	2.0243	0.9393	0.5402	0.5899
NM_0011133	Glb1l3	galactosidase	70893	2.208	0.9219	0.5979	0.6865
NM_0011133	Glb1l3	galactosidase	70893	2.208	0.9219	0.3456	0.6865
NM_0011133	Glb1l3	galactosidase	70893	2.208	0.9219	0.3456	0.543
NM_0011133	Glb1l3	galactosidase	70893	2.208	0.9219	0.3456	0.543
NM_0011113	Nedd9	neural precu	18003	2.4488	0.363	0.2863	0.5751
NM_0011113	Nedd9	neural precu	18003	2.9906	0.5355	0.5274	0.8979
NM_0011113	Nedd9	neural precu	18003	3.5327	0.7125	0.7863	1.2333
NM_0011113	Nedd9	neural precu	18003	2.0062	0.9246	0.9287	0.9448
NM_001110790				2.1574	0.7027	0.5635	0.3758
NM_001110790				2.2386	0.7273	0.5635	0.3758
NM_001110790				2.2386	0.7273	0.5635	0.3758
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.7975	0.8503
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3733	0.2361
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.7975	0.8503
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3733	0.2361
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_0011031	Pcbp2	poly(rC) bind	18521	2.021	0.9681	0.3444	0.1047
NM_0010993	Gm6880	predicted ge	628456	2.2493	0.3552	0.4563	0.6836
NM_0010993	Gm6880	predicted ge	628456	3.4001	0.985	1.1288	1.4386
NM_0010993	Gm6880	predicted ge	628456	3.4001	0.985	1.1288	1.4386
NM_0010993	Gm6880	predicted ge	628456	3.4001	0.985	1.1288	1.4386
NM_0010987	Yy2	Yy2 transcrip	100073351	2.6363	0.933	0.9388	1.1027
NM_0010987	Yy2	Yy2 transcrip	100073351	2.6363	0.933	0.9388	1.1027

NM_0010987	Yy2	Yy2 transcrip	100073351	2.6363	0.933	0.9388	1.1027
NM_0010987	Yy2	Yy2 transcrip	100073351	2.6363	0.933	0.9388	1.1027
NM_0010819	Mfap1b	microfibrillar	100034361	2.0229	0.4451	0.2661	0.5223
NM_0010819	Mfap1b	microfibrillar	100034361	2.4447	0.5784	0.3627	0.6704
NM_0010819	Mfap1b	microfibrillar	100034361	2.8648	0.7122	0.4612	0.8187
NM_0010819	Mfap1b	microfibrillar	100034361	3.2838	0.846	0.5606	0.9667
NM_0010819	Mfap1b	microfibrillar	100034361	3.2838	0.846	0.5606	0.9667
NM_0010819	Mfap1b	microfibrillar	100034361	2.3205	0.846	0.687	0.9667
NM_0010819	Mfap1b	microfibrillar	100034361	2.0871	0.846	0.5606	0.9667
NM_0010816	Nacad	NAC alpha dc	192950	2.3087	0.7768	1.0576	0.8626
NM_0010816	Nacad	NAC alpha dc	192950	2.3087	0.7768	1.0576	0.8626
NM_0010816	Nacad	NAC alpha dc	192950	2.3087	0.7768	1.0576	0.8626
NM_0010814	Chrna10	cholinergic re	504186	2.0031	0.8815	0.7505	0.7548
NM_0010814	Chrna10	cholinergic re	504186	2.0031	0.8815	0.7505	0.7548
NM_0010814	Chrna10	cholinergic re	504186	2.0031	0.9198	0.7505	0.7548
NM_0010814	Chrna10	cholinergic re	504186	2.0031	0.9198	0.7505	0.7548
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.0326	0.8613	1.4904	1.4596
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.0326	0.8613	0.8841	1.1827
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.0326	0.8613	0.8841	1.1827
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.0326	0.8613	0.8841	1.1827
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.2993	0.9761	1.4904	1.6641
NM_0010813	Ctcf1	CCCTC-bindir	664799	2.3047	0.9967	0.9772	1.3556
NM_0010812	Ccdc88b	coiled-coil dc	78317	2.1316	0.6987	0.0792	0.9753
NM_0010812	Ccdc88b	coiled-coil dc	78317	2.1316	0.6987	0.3728	0.9753
NM_0010812	Ccdc88b	coiled-coil dc	78317	2.1316	0.6987	0.3728	0.9753
NM_0010812	Ccdc88b	coiled-coil dc	78317	2.1316	0.6987	0.3728	0.9753
NM_0010812	Ccdc88b	coiled-coil dc	78317	2.2096	0.9689	0.4553	1.0069
NM_0010811	Mamdc4	MAM domain	381352	2.0614	0.9128	0.6835	0.3633
NM_0010811	Mamdc4	MAM domain	381352	2.0614	0.9128	0.234	0.3633
NM_0010811	Mamdc4	MAM domain	381352	2.0614	0.9128	0.234	0.3633
NM_0010811	Mamdc4	MAM domain	381352	2.0614	0.9128	0.234	0.3633
NM_0010811	Stim2	stromal inter	116873	3.0237	0.8363	1.1814	0.7545
NM_0010811	Stim2	stromal inter	116873	3.0237	0.8363	1.1814	0.7545
NM_0010811	Stim2	stromal inter	116873	3.0237	0.8363	1.1814	0.7167
NM_0010811	Stim2	stromal inter	116873	3.0237	0.8363	1.1814	0.7167
NM_0010811	Stim2	stromal inter	116873	3.0237	0.9036	1.1814	0.7545
NM_0010809	Znrf3	zinc and ring	407821	2.321	0.9303	0.8678	1.1083
NM_0010809	Znrf3	zinc and ring	407821	2.1441	0.9303	0.8678	1.1083
NM_0010809	Znrf3	zinc and ring	407821	2.1441	0.9303	0.8678	1.1083
NM_0010809	Znrf3	zinc and ring	407821	2.0793	0.9303	1.4526	1.1083
NM_0010808	Cass4	Cas scaffoldir	320664	2.1168	0.7055	0.0876	0.2785
NM_0010808	Cass4	Cas scaffoldir	320664	2.3987	0.8226	0.1834	0.3419
NM_0010808	Cass4	Cas scaffoldir	320664	2.7472	0.9766	0.3705	0.5606
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010779	Tnfrsf9	tumor necros	21942	2.2526	0.9136	0.4199	0.3272
NM_0010399	Abca3	ATP-binding c	27410	2.3893	0.1495	0.0553	0.0429
NM_0010399	Abca3	ATP-binding c	27410	2.3875	0.1595	0.1141	0.0945
NM_0010399	Abca3	ATP-binding c	27410	2.3875	0.1595	0.1141	0.0257
NM_0010399	Abca3	ATP-binding c	27410	2.0748	0.5012	0.4105	0.38
NM_0010394	Gm13152	predicted ge	195531	2.8772	0.78	0.7705	0.9172

NM_0010392	Gm13152	predicted ge	195531	2.8772	0.78	0.7705	0.9172
NM_0010392	Gm13152	predicted ge	195531	2.8772	0.78	0.7705	0.9172
NM_0010386	Slc16a3	solute carrier	80879	3.486	0.7812	0.7783	0.7061
NM_0010386	Slc16a3	solute carrier	80879	2.6177	0.7812	0.2197	0.2213
NM_0010386	Slc16a3	solute carrier	80879	2.958	0.9073	0.3623	0.2763
NM_0010386	Slc16a3	solute carrier	80879	3.486	0.7812	0.7783	0.7061
NM_0010386	Slc16a3	solute carrier	80879	2.6177	0.7812	0.2197	0.2213
NM_0010386	Slc16a3	solute carrier	80879	2.958	0.9073	0.3623	0.2763
NM_0010371	Musk	muscle, skele	18198	2.1283	0.7377	0.3259	0.6408
NM_0010371	Musk	muscle, skele	18198	2.1926	0.9652	1.4587	1.4222
NM_0010371	Musk	muscle, skele	18198	2.6699	0.9689	0.4607	0.8501
NM_0010371	Musk	muscle, skele	18198	2.1283	0.7377	0.3259	0.6408
NM_0010371	Musk	muscle, skele	18198	2.1926	0.9652	1.4587	1.4222
NM_0010371	Musk	muscle, skele	18198	2.6699	0.9689	0.4607	0.8501
NM_0010371	Musk	muscle, skele	18198	2.1283	0.7377	0.3259	0.6408
NM_0010371	Musk	muscle, skele	18198	2.1926	0.9652	1.4587	1.4222
NM_0010371	Musk	muscle, skele	18198	2.6699	0.9689	0.4607	0.8501
NM_0010371	Musk	muscle, skele	18198	2.1283	0.7377	0.3259	0.6408
NM_0010371	Musk	muscle, skele	18198	2.1926	0.9652	1.4587	1.4222
NM_0010371	Musk	muscle, skele	18198	2.6699	0.9689	0.4607	0.8501
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.6121	1.1004	0.7546
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010349	Sorbs1	sorbin and SH	20411	2.1088	0.8278	1.1004	1.3491
NM_0010348	Gm5627	predicted ge	434510	2.0427	0.5672	0.5722	0.6272
NM_0010348	Gm5627	predicted ge	434510	2.403	0.5766	0.6673	0.713
NM_0010348	Gm5627	predicted ge	434510	2.4498	0.6678	0.6733	0.8063
NM_0010348	Gm5627	predicted ge	434510	2.4693	0.8911	0.8998	1.3886
NM_0010339	H2-Eb2	histocompati	381091	2.218	0.3494	0.0953	0.0706
NM_0010339	H2-Eb2	histocompati	381091	2.0429	0.3494	0.0953	0.0194
NM_0010339	H2-Eb2	histocompati	381091	2.3531	0.4325	0.1322	0.0321
NM_0010339	Cass4	Cas scaffoldir	320664	2.1168	0.7055	0.0876	0.2785
NM_0010339	Cass4	Cas scaffoldir	320664	2.3987	0.8226	0.1834	0.3419
NM_0010339	Cass4	Cas scaffoldir	320664	2.7472	0.9766	0.3705	0.5606
NM_0010333	Gfod1	glucose-fruct	328232	2.1651	0.6885	0.6288	0.6608
NM_0010333	Gfod1	glucose-fruct	328232	2.0584	0.8191	0.7513	0.7877
NM_0010333	Gfod1	glucose-fruct	328232	2.0584	0.8191	0.7513	0.7877
NM_0010333	Gfod1	glucose-fruct	328232	2.0584	0.8191	0.7513	0.7877
NM_0010333	Gfod1	glucose-fruct	328232	2.0584	0.8191	0.7513	0.7877
NM_0010333	A430078G23	RIKEN cDNA	319493	2.5356	0.6749	1.4256	1.2017
NM_0010333	A430078G23	RIKEN cDNA	319493	2.5356	0.6749	1.4256	1.2017
NM_0010333	A430078G23	RIKEN cDNA	319493	2.5356	0.6749	1.4256	1.2017
NM_0010333	A430078G23	RIKEN cDNA	319493	2.9697	0.9134	1.6899	1.4317
NM_0010333	A430078G23	RIKEN cDNA	319493	2.9697	0.9134	1.6899	1.4317
NM_0010333	Cog7	component d	233824	2.2756	0.3675	0.1161	0.1152
NM_0010333	Cog7	component d	233824	2.1047	0.8454	0.7263	0.5294
NM_0010333	Cog7	component d	233824	2.2237	0.9516	0.69	0.6882
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	Ephx3	epoxide hydr	71932	2.0937	0.4023	0.7191	0.8526
NM_0010331	1700029J07F	RIKEN cDNA	69479	2.1079	0.243	0.2778	0.3461
NM_0010331	1700029J07F	RIKEN cDNA	69479	2.5245	0.3634	0.4061	0.4885

NM_001033	1700029J07F	RIKEN cDNA	69479	2.5245	0.4505	0.4061	0.4885
NM_001033	1700029J07F	RIKEN cDNA	69479	2.2618	0.8436	0.3306	0.1493
NM_001031	Abca17	ATP-binding	381072	2.3893	0.1495	0.0553	0.0429
NM_001031	Abca17	ATP-binding	381072	2.3875	0.1595	0.1141	0.0945
NM_001031	Abca17	ATP-binding	381072	2.3875	0.1595	0.1141	0.0257
NM_001031	Abca17	ATP-binding	381072	2.0748	0.5012	0.4105	0.38
NM_001024	C330021F23	RIKEN cDNA	546049	2.7943	0.7333	0.5368	0.7041
NM_001024	C330021F23	RIKEN cDNA	546049	3.2039	0.8699	0.6468	0.8368
NM_001024	C330021F23	RIKEN cDNA	546049	3.2039	0.8699	0.6468	0.8368
NM_001024	C330021F23	RIKEN cDNA	546049	3.2039	0.8699	0.6468	0.8368
NM_001024	C330021F23	RIKEN cDNA	546049	3.2039	0.8699	0.6468	0.8368
NM_001017	Btbd11	BTB (POZ) do	74007	2.2749	0.816	0.5803	0.8425
NM_001017	Btbd11	BTB (POZ) do	74007	2.0103	0.816	0.6874	0.8425
NM_001017	Btbd11	BTB (POZ) do	74007	2.0103	0.816	0.6874	0.8425
NM_001017	Btbd11	BTB (POZ) do	74007	2.2922	0.9848	0.9995	1.1093
NM_001017	Btbd11	BTB (POZ) do	74007	2.2922	0.9848	0.9254	1.1093
NM_001013	Aim2	absent in me	383619	2.0794	0.6306	0.5511	0.4973
NM_001013	Aim2	absent in me	383619	2.8069	0.6657	0.8101	0.7393
NM_001013	Aim2	absent in me	383619	2.4437	0.8423	0.6806	0.6182
NM_001013	E130306D19	RIKEN cDNA	230098	2.4868	0.7835	0.5403	0.8663
NM_001013	E130306D19	RIKEN cDNA	230098	2.1774	0.7835	0.5403	0.8663
NM_001013	E130306D19	RIKEN cDNA	230098	2.1774	0.7835	0.5403	0.8663
NM_001013	Lman2l	lectin, manno	214895	2.0382	0.6873	0.7522	1.3625
NM_001013	Lman2l	lectin, manno	214895	2.4199	0.7671	0.2157	0.4434
NM_001013	Lman2l	lectin, manno	214895	2.7371	0.946	0.451	0.7657
NM_001011	Olf324	olfactory rec	257892	2.7213	0.9389	1.2151	0.9936
NM_001011	Olf324	olfactory rec	257892	2.7213	0.9389	1.1923	0.9936
NM_001011	Olf324	olfactory rec	257892	2.4395	0.9638	0.8603	0.6909
NM_001008	BC085271	cDNA sequer	434632	2.5512	0.3624	0.1142	1.1176
NM_001008	BC085271	cDNA sequer	434632	2.5665	0.8085	0.5029	1.0018
NM_001008	BC085271	cDNA sequer	434632	3.1617	0.9377	0.2936	0.4432
NM_001008	BC085271	cDNA sequer	434632	2.9009	0.9377	0.5956	1.1537
NM_001008	BC085271	cDNA sequer	434632	2.9009	0.9377	0.5956	1.1537
NM_001008	BC085271	cDNA sequer	434632	2.9009	0.9377	0.5956	1.1537
NM_001008	BC085271	cDNA sequer	434632	2.9009	0.9377	0.5956	1.1105
NM_001008	BC085271	cDNA sequer	434632	2.8022	0.9377	0.5956	1.1537
NM_001008	BC085271	cDNA sequer	434632	2.5113	0.9377	0.2936	0.3153
NM_001008	Fbxw20	F-box and W	434440	2.06	0.4924	0.0992	0.0977
NM_001008	Fbxw20	F-box and W	434440	2.3725	0.7937	0.2588	0.2564
NM_001008	Fbxw20	F-box and W	434440	2.3725	0.8251	0.286	0.5027
NM_001005	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_001005	Aebp2	AE binding pr	11569	2.1305	0.7536	1.1878	0.5901
NM_001005	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_001005	Aebp2	AE binding pr	11569	2.1786	0.9839	1.1969	0.498
NM_001005	BC018101	cDNA sequer	449000	2.0771	0.4149	0.4617	0.4616
NM_001005	BC018101	cDNA sequer	449000	2.0771	0.4149	0.4617	0.4616
NM_001005	BC018101	cDNA sequer	449000	2.0771	0.4149	0.4617	0.4616
NM_001005	BC018101	cDNA sequer	449000	2.2789	0.7366	0.5605	1.0123
NM_001005	BC018101	cDNA sequer	449000	2.2789	0.7366	0.5605	1.0123
NM_001004	Ckap2	cytoskeleton	80986	2.3179	0.738	0.3649	0.7651
NM_001004	Ckap2	cytoskeleton	80986	2.3179	0.738	0.3649	0.7651
NM_001004	Ckap2	cytoskeleton	80986	2.2799	0.9209	0.5606	1.0177
NM_001002	Rab44	RAB44, mem	442827	2.3054	0.9776	0.4574	0.5818

NM_001002	Rab44	RAB44, mem	442827	2.3054	0.9776	0.4898	0.5818
NM_001002	Rab44	RAB44, mem	442827	2.3054	0.9776	0.5041	0.5818

For Review Only

ial healing.

For Review Only

Dataset S4. Genes showing inverse

The list includes the genes showing a
 For the major part of the genes, the

Transcript	Gene ID	Gene name
AF021836	53622	Krt85
BC100690	20197	S100a3
AK160010	22436	Xdh
BC028507	21942	Tnfrsf9
BC018406	215929	Al317395
BC025135	17068	Ly6d
BC119529	109245	Lrrc39
BC096379	229933	Clca5
AK151184	71712	Dram1
BC117058	66708	Krtap3-2
AK157977	76459	Car12
BC050811	241943	Ccdc144b
BC022178	12700	Cish
BC094635	20198	S100a4
DQ266428	15530	Hspg2
BC003323	80290	Gpr146
BC119346	69852	Tcf23
BC117858	320664	Cass4
BC057957	14409	Gabrr2
BC038157	73724	Mcee
AF135494	17952	Naip6
BC145797	71932	Ephx3
BC023687	74251	Ankrd9
BC027518	22287	Scgb1a1
AK152840	14043	Ext2
AK161258	13417	Dnahc8
BC120485	16681	Krt2
BC046525	80879	Slc16a3
AF208109	50905	Il17rb
NM_001109	104027	Synpo
BC156902	142687	Asb14
BC116947	78653	Bola3
AK053379	328232	Gfod1
BC119289	16204	Fabp6
AY390399	14611	Gja3
BC021636	15586	Hyal1
AK135491	20163	Rsu1
BC024374	17229	Tpsb2
BC089480	546049	C330021F2
NM_021545	53880	Naip7
BC051454	76964	2610028H2
AK137470	30955	Pik3cg



BC119790	73822	F630110N2
BC018233	26388	Ifi202b
AK141257	76826	Nubpl
AK077411	252972	Tpcn1
BC030321	51791	Rgs14
BC047267	11529	Adh7
BC003325	16664	Krt14
AK030841	76614	Immt
BC053698	107221	Gpr120
BC119517	69677	Il1f8
BC116759	80908	Abo
AK002831	66065	Hsd17b14
AK036394	106393	Srl
AK186618	20411	Sorbs1
AK009938	17901	Myl1
BC049894	56745	C1qtnf1
AK082974	208449	Sgms1
XM_001477	100041586	Gm3417
BC061136	100041639	Gm3448
AK040218	319493	A430078G2
AK172380	227929	Cytip
BC100462	12045	Bcl2a1b
BC031732	27973	Vkorc1
AK133342	407821	Znrf3
BC010291	66141	Ifitm3
AK007017	67015	Ccdc91
BC038314	26557	Homer2
BC011063	15402	Hoxa5
BC042484	11819	Nr2f2
AK083795	22215	Ube3a
AK166121	71982	Snx10
AK033656	224674	Slc37a1
BC042440	59093	Pcbp3
AK145105	66433	Chchd7
BC054473	16008	Igfbp2
BC026547	56177	Olfm1
BC080271	20536	Slc4a3
BC014819	107971	Frs3
AK173090	71529	9030409G1
BC156432	16504	Kcnc3
BC052705	18218	Dusp8
BC120741	140498	Rxfp2
BC026822	19051	Gsbs
BC027096	20408	Sh3gl3
BC053087	269397	Ss18l1
BC119105	15403	Hoxa6
AK140637	23805	Apc2
BC103595	15413	Hoxb5
BC127061	16975	Lrp8
BC116289	268345	Kcnc2

AK135098	110058	Syt17
AK139197	15566	Htr7
BC146289	14811	Grin2a
BC141516	406218	Panx2
BC014750	17116	Mab21l1
AK147369	11941	Atp2b2
BC118526	214240	Disp2
AF160966	26386	Hsf4
AK016279	117600	Srgap1
BC056384	12151	Bmi1
AK046916	244867	Arhgap20
BC117977	414872	Zyg11b
AK135840	225518	Prdm6
BC049129	72543	Fam125b
BC033505	68969	Eif1b
BC053436	72828	Ubash3b
BC117761	70546	Zdhhc2
BC067019	20667	Sox12
M19662	17242	Mdk
Y11717	15400	Hoxa3
AK147272	13821	Epb4.1l1
BC034510	214459	Fnbp1l
BC021521	67263	Zswim6
BC070440	241289	Gm347
BC103597	15407	Hoxb1
AK082825	17191	Mbd2
BC008272	18196	Nsg1
NM_010057	13396	Dlx6
BC036988	75141	Rasd2
BC140243	58188	Vstm2b
BC056458	16980	Lrrn2
L78075	12540	Cdc42
BC117800	71685	Galnt14
BC052001	13643	Efnb3
AK044702	231503	Tmem150c
BC108419	226781	Slc30a10
AK132168	218038	Amph
BC057562	170729	Scrt1



y correlated changes in expression and DNA methylation status after the decline of fetal scarless h
 at least a two-fold change in expression and alterations in DNA methylation (DMRs) within the prom
 inverse correlations between DNA methylation and gene expression are retained at E19 and till adul

Description	Methyl
	E15 vs. E18
keratin 85	-
S100 calcium binding protein A3	-
xanthine dehydrogenase	-
tumor necrosis factor receptor superfamily, member 9	-
expressed sequence AI317395	-
lymphocyte antigen 6 complex, locus D	-
leucine rich repeat containing 39	-
chloride channel calcium activated 5	-
DNA-damage regulated autophagy modulator 1	-
keratin associated protein 3-2	-
carbonic anyhydrase 12	-
coiled-coil domain containing 144B	-
cytokine inducible SH2-containing protein	-
S100 calcium binding protein A4	-
perlecan (heparan sulfate proteoglycan 2)	-
G protein-coupled receptor 146	-
transcription factor 23	-
Cas scaffolding protein family member 4	-
gamma-aminobutyric acid (GABA) C receptor, subunit rho 2	-
methylmalonyl CoA epimerase	-
NLR family, apoptosis inhibitory protein 6	-
epoxide hydrolase 3	-
ankyrin repeat domain 9	-
secretoglobin, family 1A, member 1 (uteroglobin)	-
exostoses (multiple) 2	-
dynein, axonemal, heavy chain 8	-
keratin 2	-
solute carrier family 16 (monocarboxylic acid transporters), member 3	-
interleukin 17 receptor B	-
synaptopodin	-
ankyrin repeat and SOCS box-containing 14	-
bolA-like 3 (E. coli)	-
glucose-fructose oxidoreductase domain containing 1	-
fatty acid binding protein 6, ileal (gastrotropin)	-
gap junction protein, alpha 3	-
hyaluronoglucosaminidase 1	-
Ras suppressor protein 1	-
tryptase beta 2	-
RIKEN cDNA C330021F23 gene	-
NLR family, apoptosis inhibitory protein 7	-
RIKEN cDNA 2610028H24 gene	-
phosphoinositide-3-kinase, catalytic, gamma polypeptide	-

RIKEN cDNA F630110N24 gene	-
interferon activated gene 202B	-
nucleotide binding protein-like	-
two pore channel 1	-
regulator of G-protein signaling 14	-
alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	-
keratin 14	-
inner membrane protein, mitochondrial	-
G protein-coupled receptor 120	-
interleukin 1 family, member 8	-
ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase, transferase	-
hydroxysteroid (17-beta) dehydrogenase 14	-
sarcalumenin	-
sorbin and SH3 domain containing 1	-
myosin, light polypeptide 1	-
C1q and tumor necrosis factor related protein 1	-
sphingomyelin synthase 1	-
predicted gene 3417	-
predicted gene 3448	-
RIKEN cDNA A430078G23 gene	-
cytohesin 1 interacting protein	-
B-cell leukemia/lymphoma 2 related protein A1b	-
vitamin K epoxide reductase complex, subunit 1	-
zinc and ring finger 3	-
interferon induced transmembrane protein 3	-
coiled-coil domain containing 91	-
homer homolog 2 (Drosophila)	+
homeobox A5	+
nuclear receptor subfamily 2, group F, member 2	+
ubiquitin protein ligase E3A	+
sorting nexin 10	+
solute carrier family 37 (glycerol-3-phosphate transporter), member 1	+
poly(rC) binding protein 3	+
coiled-coil-helix-coiled-coil-helix domain containing 7	+
insulin-like growth factor binding protein 2	+
olfactomedin 1	+
solute carrier family 4 (anion exchanger), member 3	+
fibroblast growth factor receptor substrate 3	+
RIKEN cDNA 9030409G11 gene	+
potassium voltage gated channel, Shaw-related subfamily, member 3	+
dual specificity phosphatase 8	+
relaxin/insulin-like family peptide receptor 2	+
G substrate	+
SH3-domain GRB2-like 3	+
synovial sarcoma translocation gene on chromosome 18-like 1	+
homeobox A6	+
adenomatous polyposis coli 2	+
homeobox B5	+
low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	+
potassium voltage gated channel, Shaw-related subfamily, member 2	+



synaptotagmin XVII	+
5-hydroxytryptamine (serotonin) receptor 7	+
glutamate receptor, ionotropic, NMDA2A (epsilon 1)	+
pannexin 2	+
mab-21-like 1 (C. elegans)	+
ATPase, Ca ⁺⁺ transporting, plasma membrane 2	+
dispatched homolog 2 (Drosophila)	+
heat shock transcription factor 4	+
SLIT-ROBO Rho GTPase activating protein 1	+
Bmi1 polycomb ring finger oncogene	+
Rho GTPase activating protein 20	+
zyg-II homolog B (C. elegans)	+
PR domain containing 6	+
family with sequence similarity 125, member B	+
eukaryotic translation initiation factor 1B	+
ubiquitin associated and SH3 domain containing, B	+
zinc finger, DHHC domain containing 2	+
SRY-box containing gene 12	+
midkine	+
homeobox A3	+
erythrocyte protein band 4.1-like 1	+
formin binding protein 1-like	+
zinc finger, SWIM domain containing 6	+
predicted gene 347	+
homeobox B1	+
methyl-CpG binding domain protein 2	+
neuron specific gene family member 1	+
distal-less homeobox 6	+
RASD family, member 2	+
V-set and transmembrane domain containing 2B	+
leucine rich repeat protein 2, neuronal	+
cell division cycle 42 homolog (S. cerevisiae)	+
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14	+
ephrin B3	+
transmembrane protein 150C	+
solute carrier family 30, member 10	+
amphiphysin	+
scratch homolog 1, zinc finger protein (Drosophila)	+

healing in skin.

outer regions at E15 relative to E18.

hood.

Methylation loss E18&E19& Adults	Methylation gain		Expression fold-change vs.		
	E15 vs. E18	E18&E19 &Adults	E18	E19	Adults
-	+	+	0.02	0.02	0.01
-	+	+	0.04	0.05	0.01
-	+	+	0.04	0.05	0.01
-	+	+	0.04	0.07	0.63
-	+	+	0.05	0.51	0.25
-	+	+	0.06	0.05	0.04
-	+	+	0.06	0.09	0.07
-	+	+	0.08	0.08	0.02
-	+	+	0.13	0.15	0.19
-	+	+	0.15	0.14	0.02
-	+	+	0.16	0.18	0.15
-	+	+	0.19	0.59	0.97
-	+	+	0.19	0.29	0.37
-	+	+	0.21	0.15	0.02
-	+	+	0.21	0.21	0.33
-	+	+	0.23	0.35	0.11
-	+	+	0.24	0.29	1.00
-	+	+	0.24	0.21	0.13
-	+	+	0.26	0.20	2.02
-	+	+	0.26	0.51	0.46
-	+	+	0.27	0.23	0.10
-	+	+	0.27	0.25	0.14
-	+	+	0.27	0.29	0.29
-	+	+	0.27	0.20	0.05
-	+	+	0.28	0.15	0.92
-	+	+	0.29	0.36	0.52
-	+	+	0.29	0.31	0.27
-	+	+	0.30	0.28	0.51
-	+	+	0.31	0.32	0.48
-	+	+	0.31	0.26	0.10
-	+	+	0.34	0.26	0.02
-	+	+	0.35	0.83	0.29
-	+	+	0.35	0.32	0.08
-	+	+	0.37	0.35	0.18
-	+	+	0.38	0.29	1.15
-	+	+	0.39	0.39	0.30
-	+	+	0.39	0.33	0.16
-	+	+	0.39	0.33	2.19
-	+	+	0.40	0.75	0.45
-	+	+	0.40	0.35	0.10
-	+	+	0.41	0.55	0.94
-	+	+	0.43	0.35	0.39

-	+	+	0.44	0.81	0.77
-	+	+	0.44	0.44	0.57
-	+	+	0.45	0.82	1.75
-	+	+	0.48	0.63	0.71
-	+	+	0.49	0.60	0.08
-	+	+	0.49	0.28	0.10
-	+	+	0.50	0.48	0.39
-	+	+	0.50	0.53	0.28
-	+	-	0.01	0.05	0.10
-	+	-	0.01	0.01	0.06
-	+	-	0.07	0.06	0.74
-	+	-	0.19	0.06	0.11
-	+	-	0.23	0.19	0.12
-	+	-	0.31	0.41	0.49
-	+	-	0.31	0.24	0.23
-	+	-	0.32	0.27	0.17
-	+	-	0.37	0.31	0.18
-	+	-	0.39	0.35	0.33
-	+	-	0.40	0.51	0.18
-	+	-	0.40	0.70	0.60
-	+	-	0.42	0.55	0.14
-	+	-	0.42	0.50	0.12
-	+	-	0.46	0.42	0.35
-	+	-	0.48	0.53	0.62
-	+	-	0.48	0.43	0.36
-	+	-	0.49	0.37	0.50
-	-	-	2.03	0.99	0.59
-	-	-	5.77	5.90	5.87
-	-	-	2.08	1.74	2.84
-	-	-	2.48	1.45	0.98
-	-	-	2.82	3.33	1.23
-	-	-	3.18	2.90	0.67
-	-	-	3.33	2.94	8.75
-	-	-	3.34	2.62	2.55
-	-	-	3.43	2.79	5.78
-	-	-	3.75	2.77	3.22
-	-	-	4.52	3.30	4.53
-	-	-	4.93	5.29	9.44
-	-	-	4.98	3.81	6.02
-	-	-	5.00	4.96	8.53
-	-	-	5.38	2.78	2.95
-	-	-	5.52	3.67	6.15
-	-	-	5.96	10.52	8.71
-	-	-	6.39	3.87	24.14
-	-	-	6.82	6.59	4.90
-	-	-	8.06	5.41	7.34
-	-	-	13.80	8.36	3.00
-	-	-	16.20	17.00	9.13
-	-	-	17.68	16.00	111.94
-	-	-	17.92	15.41	30.52

-	-	-	22.32	9.06	7.22
-	-	-	23.66	12.19	62.59
-	-	-	25.28	61.22	192.88
-	-	-	31.80	37.56	29.14
-	-	-	51.96	38.66	75.35
-	-	-	79.98	108.25	60.95
-	-	-	237.91	167.94	422.18
+	-	-	2.00	1.85	1.15
+	-	-	2.02	1.89	3.72
+	-	-	2.06	1.35	1.10
+	-	-	2.14	1.63	1.38
+	-	-	2.34	2.48	2.72
+	-	-	2.39	1.89	5.39
+	-	-	2.47	2.25	4.13
+	-	-	2.58	2.02	5.94
+	-	-	2.61	2.01	1.88
+	-	-	2.75	2.35	8.02
+	-	-	2.82	1.98	10.80
+	-	-	2.98	2.64	15.52
+	-	-	2.99	3.92	4.82
+	-	-	3.11	3.14	3.68
+	-	-	3.23	2.76	4.52
+	-	-	3.25	2.29	12.96
+	-	-	3.63	2.14	12.85
+	-	-	3.85	3.24	2.77
+	-	-	3.94	3.09	2.46
+	-	-	4.42	3.15	8.33
+	-	-	5.12	8.48	6.13
+	-	-	6.33	4.14	0.33
+	-	-	6.60	3.38	28.85
+	-	-	7.70	3.98	26.79
+	-	-	8.23	7.66	5.08
+	-	-	13.14	12.38	14.31
+	-	-	13.75	6.94	25.16
+	-	-	15.92	7.02	13.96
+	-	-	16.33	15.07	139.66
+	-	-	67.95	30.40	58.87
+	-	-	202.15	363.25	1199.74
SCALE			0.10	1.00	10.00

Dataset S5. The differentially expressed transcripts identified in murine foetal dorsal skin

Chromosc	Gene_ID	Transcript	Gene nam	Decription	Expression peak value		
					E15	E18	E19
Up-expressed at E15 versus (E18, E19, Adu							
chr8	13004	BC065118	Ncan	Mus musc	7059.924	7.6511	7.3133
chr15	12300	BC103563	Cacng2	Mus musc	14517.91	23.0968	17.2123
chr11	14406	BC031762	Gabrg2	Mus musc	8371.431	13.8741	7.074
chr12	17933	BC094438	Myt1l	Mus musc	5985.012	7.5983	7.8822
chr7	108071	BC096533	Grm5	Mus musc	3250.382	5.8945	6.0277
chrX	237213	BC056342	Gira2	Mus musc	3020.83	5.9545	5.8924
chr12	17933	BC131677	Myt1l	Mus musc	9120.554	18.4641	21.8152
chr19	226180	BC018383	Ina	Mus musc	24659.59	26.7785	60.393
chr6	232333	BC059080	Slc6a1	Mus musc	5031.514	7.6606	6.5663
chr7	140919	BC038375	Slc17a6	Mus musc	3868.676	10.7671	9.0076
chr11	14799	AK049958	Gria1	Mus musc	5679.505	17.2302	18.174
chr13	67295	AK161006	Rab3c	Mus musc	14757.9	47.5623	38.4641
chr12	17933	NM_00109	Myt1l	Mus musc	5358.301	12.9012	18.7049
chr2	14417	BC018380	Gad2	Mus musc	3463.234	9.2669	10.4724
chr6	11922	BC087831	Neurod6	Mus musc	5202.004	11.0759	8.5987
chr7	110886	AK083185	Gabra5	Mus musc	1910.31	6.3864	7.4357
chr2	22348	BC052020	Slc32a1	Mus musc	5167.422	20.7571	14.2279
chr1	227325	BC034634	Dner	Mus musc	10483.41	37.2392	45.2306
chr14	18039	BC029203	Nefl	Mus musc	14301.64	57.1986	61.7241
chr15	116838	AK129206	Rims2	Mus musc	4490.861	14.7623	21.4933
chr11	14799	BC056397	Gria1	Mus musc	3664.696	11.1401	17.7376
chr2	20614	BC018249	Snap25	Mus musc	14356.51	81.9855	20.3394
chr18	13176	AK157715	Dcc	Mus musc	4136.498	19.8494	24.3802
chr2	20262	BC057017	Stmn3	Mus musc	9289.945	54.5017	39.8614
chr1	14472	BC116965	Gbx2	Mus musc	2209.737	13.2615	13.0105
chr11	20370	BC053011	Sez6	Mus musc	6080.832	36.6575	29.73
chr3	14800	AK163941	Gria2	Mus musc	14560.88	81.9075	90.0255
chr6	243616	BC146307	Slc6a11	Synthetic	7882.668	29.6886	49.3721
chr5	19894	BC042585	Rph3a	Mus musc	2702.88	14.8902	17.1004
chr5	83766	BC049539	Actl6b	Mus musc	11413.54	76.9315	60.207
chr3	14800	AK134772	Gria2	Mus musc	5176.46	20.7129	35.4605
chr2	18012	BC018241	Neurod1	Mus musc	4049.318	29.4896	14.6544
chr14	27062	BC079679	Cadps	Mus musc	2685.344	12.2897	19.6787
chr18	20689	BC118974	Sall3	Mus musc	6424.473	47.4786	32.9373
chr4	242425	BC156087	Gabbr2	Synthetic	5693.618	42.3162	30.4257
chr9	15571	U29149	Elavl3	Mus musc	9232.151	71.7016	42.122
chr11	20370	D29763	Sez6	Mus musc	4565.555	26.6639	35.5701
chr2	14617	BC058595	Gjd2	Mus musc	3260.33	26.3517	16.483
chr3	54524	AB026810	Syt6	Mus musc	2578.702	20.5055	14.5099
chr14	238988	AK122265	Erc2	Mus musc	2681.654	14.6632	18.2778
chr9	110834	BC120597	Chrna3	Mus musc	2128.801	18.1173	16.2548
chr13	22360	BC052019	Nrsn1	Mus musc	8301.922	71.5836	53.6698
chr2	20511	AK013557	Slc1a2	Mus musc	6842.526	33.6375	59.3342
chr13	67295	BC114335	Rab3c	Mus musc	2850.519	24.7903	15.7213
chr9	15571	BC052097	Elavl3	Mus musc	4678.38	41.4803	23.2671
chr8	12404	BC055730	Cbln1	Mus musc	8337.994	41.8943	76.6875

chr2	14415	AK160410	Gad1	Mus musc	3618.994	33.682	31.3955
chr2	16574	BC067051	Kif5c	Mus musc	11690.34	56.2832	109.2915
chr7	104245	AB118159	Slc6a5	Mus musc	2096.041	20.0865	13.4611
chr17	18189	AK137407	Nrxn1	Mus musc	9291.808	92.6295	54.8944
chr2	76161	BC004791	6330527O	Mus musc	12030.91	14.1389	10.2936
chr3	76897	BC052358	Raly1	Mus musc	6542.785	11.4385	10.5485
chr19	18504	BC148232	Pax2	Mus musc	19637.3	34.8583	31.6039
chr7	16353	U69888	lpw	Mus musc	3848.436	7.3248	7.8924
chr7	15135	BC057014	Hbb-y	Mus musc	10917.81	23.3388	16.7263
chr14	268755	AK044422	A930011O	Mus musc	3000.893	5.7623	5.6495
chr18	19762	BC018267	Rit2	Mus musc	6452.474	8.8866	14.5145
chr13	N/A	XM_00147	N/A	PREDICT	9551.032	17.1059	20.4608
chr6	108653	BC052078	Rimklb	Mus musc	14421.12	24.9269	37.0272
chr4	15572	AK014133	Elavl4	Mus musc	2799.822	6.4251	8.3141
chr5	243339	BC067004	Tmem130	Mus musc	12185	29.3332	38.9027
chr9	N/A	BC056393	N/A	Mus musc	26254.49	65.026	84.0755
chr18	319211	AK086574	Nol4	Mus musc	5151.56	15.2285	18.8516
chr4	15572	BC052451	Elavl4	Mus musc	2666.652	8.9587	9.4117
chr5	243339	BC127616	Tmem130	Mus musc	18786.81	47.3671	71.4796
chr18	319211	AK029800	Nol4	Mus musc	2309.044	6.7599	8.8177
chr5	319807	AB093290	3110047P2	Mus musc	2547.069	10.1139	10.6273
chrX	30052	BC012263	Pcsk1n	Mus musc	8649.387	25.156	26.4501
chr3	213262	BC075640	Fstl5	Mus musc	1816.856	5.9279	7.5993
chr15	60597	BC029704	Mapk8ip2	Mus musc	8840.764	36.9961	26.1676
chr18	20451	BC075645	St8sia3	Mus musc	4672.83	19.9322	13.6702
chr4	75426	BC051960	Igfbpl1	Mus musc	14042.75	60.3159	32.4873
chr12	69952	XM_00147	2810011L1	PREDICT	5823.964	25.2804	7.8482
chr1	211383	BC070435	Fam123c	Mus musc	2185.81	9.7436	7.4108
chr2	16536	AK080597	Kcnq2	Mus musc	2615.19	10.833	9.6801
chr2	545474	XM_61982	Scrt2	PREDICT	7142.745	33.2305	9.336
chr19	14704	BC029680	Gng3	Mus musc	13942.84	65.9039	54.2689
chr2	16536	AK135059	Kcnq2	Mus musc	6925.47	33.5235	18.9947
chr15	170729	BC057562	Scrt1	Mus musc	12004.97	59.3874	33.0489
chr6	108653	AK039398	Rimklb	Mus musc	3088.778	15.9391	14.3906
chr7	N/A	BC072564	N/A	Mus musc	3146.184	6.2784	16.5428
chr8	330863	XM_00148	Trim67	PREDICT	5992.371	27.0489	26.6915
chrX	17954	BC115708	Nap112	Mus musc	13222.94	71.5564	36.0736
chr5	26414	AB096078	Mapk10	Mus musc	11548.03	38.6972	59.8052
chr5	319807	XM_13204	3110047P2	PREDICT	1203.616	6.5994	5.7511
chr16	268859	AK134833	A2bp1	Mus musc	1738.024	8.8711	7.7744
chr1	20254	BC048249	Scg2	Mus musc	5546.066	28.2096	31.1676
chr4	15572	AF041341	Elavl4	alt 'Elav#H	21258.35	94.1364	119.8235
chr7	628779	XM_89356	Hs3st4	PREDICT	5579.787	22.6665	32.241
chr11	70357	DQ148495	Kcnip1	alt '290004	2138.304	8.4371	8.993
chr2	214240	BC118526	Disp2	Mus musc	4139.292	17.3989	24.6472
chr5	26414	AB005665	Mapk10	Mus musc	9227.522	37.3511	54.7086
chr4	14348	BC116874	Fut9	Mus musc	2218.856	8.9477	13.8149
chr8	330863	XM_00148	Trim67	PREDICT	5668.638	35.6062	18.8901
chr7	70571	BC048631	Tcerg1l	Mus musc	6628.466	18.3658	42.0084
chr8	12564	BC057581	Cdh8	Mus musc	3970.923	16.452	25.3127
chr14	654794	AK162870	A230070E	Mus musc	13760.88	81.3635	89.4515
chr8	12564	AK139334	Cdh8	Mus musc	4862.5	20.6709	33.6666
chr18	319211	AK031008	Nol4	Mus musc	3333.433	11.1612	23.6922

chr7	11775	BC030306	Ap3b2	Mus musc	13787.92	98.9115	91.0995
chr16	67254	BC022741	2900011O	Mus musc	14087.56	78.4239	101.3035
chr2	228858	BC019941	Gdap111	Mus musc	6053.306	40.1336	45.0537
chr18	319211	BC056377	Nol4	Mus musc	2320.608	11.7002	17.7577
chr18	319211	AK031753	Nol4	Mus musc	2119.644	9.8708	16.3725
chr4	15569	BC049125	Elavl2	Mus musc	8931.684	46.2337	70.9696
chr3	N/A	AK141565	N/A	Mus musc	2287.535	15.6047	15.4243
chr3	229759	BC112422	Olfm3	Mus musc	3356.324	15.8866	26.969
chr15	239650	BC090621	A1836003	Mus musc	2919.721	11.6788	8.5459
chr2	12653	BC014736	Chgb	Mus musc	13188.18	108.6575	84.1155
chr7	57754	BC023032	Cend1	Mus musc	9172.068	75.8555	47.8912
chr17	106763	BC059249	Ttbk1	Mus musc	3079.43	20.3156	25.9665
chr1	76982	BC066997	3110035E	Mus musc	5968.162	42.11	35.9428
chr12	238266	AK032606	Syt16	Mus musc	3932.28	21.7428	33.7128
chr3	23937	BC046628	Mab2112	Mus musc	22121.77	152.5375	110.4575
chr7	70571	BC107234	Tcerg11	Mus musc	5277.924	27.7106	46.8041
chr4	15569	BC046598	Elavl2	Mus musc	3169.462	14.4179	28.3365
chr8	57340	BC105307	Jph3	Mus musc	2996.664	15.701	24.7453
chr7	101694	XM_97985	A1854517	PREDICT	1711.996	15.207	15.8018
chr1	14545	BC051135	Gdap1	Mus musc	9013.557	40.6692	73.9475
chr2	18389	AF043276	Opr1	Mus musc	2836.806	25.5544	22.9224
chr1	240690	AK122303	St18	Mus musc	1040.412	9.7776	7.885
chr9	76898	AB055781	B3gat1	Mus musc	6429.273	58.4498	61.2487
chr8	117148	BC115857	Necab2	Mus musc	2945.112	24.765	15.7365
chr18	12936	AF464180	Pcdha4	Mus musc	4400.49	19.0204	42.2567
chr11	52897	BC054403	D11Bwg05	Mus musc	2388.099	20.4579	23.0223
chr1	170771	BC132117	Khdrbs2	Mus musc	4114.848	25.1476	40.0156
chr7	195646	BC152758	Hs3st2	Synthetic	4238.822	41.9377	11.4979
chr5	140904	AK081011	Caln1	Mus musc	5042.736	49.9227	45.5152
chr13	76980	XM_12746	3110006E	PREDICT	6817.952	18.5815	67.6936
chr11	16869	BC092374	Lhx1	Mus musc	2250.208	18.1151	17.279
chr3	54524	BC050760	Syt6	Mus musc	629.4918	6.3569	6.1137
chr8	320158	BC065110	Zmat4	Mus musc	1599.256	12.8287	16.2203
chr12	69952	AK045952	2810011L1	Mus musc	3560.161	36.1439	33.8042
chr2	N/A	AK134637	N/A	Mus musc	2168.172	22.0729	12.2697
chr5	140904	AK035865	Caln1	Mus musc	7398.702	73.6635	75.7219
chr11	70357	BC034241	Kcnip1	Mus musc	3720.546	35.869	38.1833
chr5	26414	AK036275	Mapk10	Mus musc	7962.262	52.6212	63.5862
chr6	12386	NM_00110	Ctnna2	Mus musc	7909.537	47.2635	81.5175
chr2	228942	BC094540	Cbln4	Mus musc	1273.48	8.0602	6.7888
chr11	72605	BC017606	Car10	Mus musc	9011.2	41.4112	93.5732
chr8	319463	AK032654	C230057M	Mus musc	1996.446	20.9081	14.8289
chr11	78365	AK018772	1500016L0	Mus musc	679.0955	6.7547	5.1327
chr2	241656	AK079080	Pak7	Mus musc	1501.37	7.4633	15.8691
chr18	108013	AK051458	Bruno14	Mus musc	6821.355	72.7336	56.1953
chr9	207667	AK029916	Lbxcor1	Mus musc	1326.288	14.153	10.1819
chr18	76217	AK133750	Jakmip2	Mus musc	2887.863	22.7122	30.8555
chr14	18155	D50055	Pnoc	Mus musc	2182.664	23.3906	14.7207
chr11	18013	BC058965	Neurod2	Mus musc	6099.766	43.0495	38.6455
chr9	76898	AK003020	B3gat1	Mus musc	4509.582	33.249	48.5627
chr13	18212	AK160789	Ntrk2	Mus musc	10420.36	112.7215	82.5015
chr5	12933	AK159049	Crmp1	Mus musc	28590.58	236.8195	312.3258
chr2	228777	BC088982	Nrsn2	Mus musc	1963.156	13.0918	11.1471

chr7	57754	AK005092	Cend1	Mus musc	7917.948	86.9172	49.3261
chr15	29859	BC051132	Sult4a1	Mus musc	13710.93	150.9275	146.8555
chr1	241134	AK034747	943003J1	Mus musc	737.787	8.1046	8.1555
chr6	232035	AK173231	C130092O	Mus musc	1308.47	14.5442	14.5234
chr9	76898	BC034655	B3gat1	Mus musc	12249.31	101.0695	136.3715
chr11	15126	BC051988	Hba-x	Mus musc	6772.942	75.8935	45.0537
chr1	241134	AK043512	943003J1	Mus musc	1220.843	11.1182	13.7018
chr4	242662	AK043152	Rims3	Mus musc	1237.296	12.5743	13.9075
chr15	12824	BC051383	Col2a1	Mus musc	12940.5	146.4855	117.1506
chr2	16536	AK139411	Kcnq2	Mus musc	5108.936	58.0253	17.7023
chr1	19711	BC027535	Resp18	Mus musc	972.8555	8.6955	8.7616
chr3	14800	BC066193	Gria2	Mus musc	3510.99	17.3672	40.3331
chr8	67937	BC056172	Tmem59l	Mus musc	7401.144	38.8073	32.3694
chr1	636808	BC156221	Cntnap5a	Synthetic	1087.612	12.3035	9.0982
chr3	14800	AK086614	Gria2	Mus musc	1425.156	12.1291	16.5256
chr13	218440	AK138465	Ankrd34b	Mus musc	1031.274	11.7105	10.7991
chr4	12307	BC016421	Calb1	Mus musc	1020.041	12.1046	10.1978
chr8	70954	XM_99408	4922502B0	PREDICT	4737.42	24.3039	56.533
chr2	18508	BC069912	Pax6	Mus musc	818.5334	8.901	9.8046
chr11	207777	AK043747	Bzrap1	Mus musc	1906.934	23.0162	22.532
chr13	94253	AB083710	Hecw1	Mus musc	7857.658	37.6948	94.8715
chr12	104001	BC027091	Rtn1	Mus musc	6311.948	19.9385	43.9862
chr5	208151	XM_97900	Tmem132b	PREDICT	5495.858	56.9687	67.3558
chr11	72605	BC066111	Car10	Mus musc	14586.42	139.5575	179.3455
chr7	73032	BC089566	Ttc9b	Mus musc	4661.66	40.7741	30.947
chr13	553095	AK082072	LOC55309	Mus musc	1319.921	7.2342	7.1933
chr4	230868	BC055811	Igsf21	Mus musc	5029.718	48.5365	63.2023
chr12	380768	BC067044	Gm1568	Mus musc	2893.63	36.4247	25.551
chr10	246086	BC058700	Onecut3	Mus musc	889.8675	10.4874	8.1713
chr8	12564	BC060200	Cdh8	Mus musc	2662.418	34.1574	27.238
chr1	72978	BC115640	Cnih3	Mus musc	1754.864	22.5689	14.2894
chr2	18389	AK031926	Opr1	Mus musc	2486.336	27.3904	31.7042
chr6	108073	BC080315	Grm7	Mus musc	1444.337	11.0578	18.7466
chr15	54526	BC125632	Syt10	Mus musc	2344.59	30.6674	22.0144
chr11	72605	AB080741	Car10	Mus musc	12686.73	108.7575	166.6695
chr10	67412	AK030682	6330407J2	Mus musc	8229.484	73.7075	108.1213
chr10	110333	AK136927	Rmst	Mus musc	533.6387	6.8689	7.0257
chr16	20604	BC010770	Sst	Mus musc	2746.446	36.6604	25.7862
chr10	20979	AK078790	Syt1	Mus musc	7514.592	69.3497	101.3199
chr2	12287	AK081230	Cacna1b	Mus musc	3236.021	44.0719	38.9539
chr5	208151	AK220418	Tmem132b	Mus musc	1663.53	22.8788	21.9026
chr14	238988	AY356533	Erc2	alt '64305'	9422.35	86.1481	129.6075
chr18	14427	BC148482	Galr1	Synthetic	1688.473	23.2943	12.1093
chr5	14405	BC099939	Gabrg1	Mus musc	1481.726	15.0634	13.7018
chr12	18191	BC060719	Nrxn3	Mus musc	10033.41	62.9423	139.3095
chr12	627191	AY993933	Tmem90a	alt 'Gm26'	2388.378	33.2537	19.6556
chr1	269109	BC063074	Dpp10	Mus musc	835.1635	6.1865	11.7011
chr5	231760	AK147417	Rimbp2	Mus musc	3386.754	47.5941	27.6
chr10	215890	BC058539	Rlbp1l2	Mus musc	2486.336	12.2388	24.7227
chr17	11516	BC057344	Adcyap1	Mus musc	1054.969	10.1647	13.1982
chr3	1E+08	AK140632	Gm3764	Mus musc	1887.15	26.7384	15.1288
chr4	1E+08	XM_00147	Gm12371	PREDICT	1217.316	14.3906	17.3594
chr15	54003	BC051968	Nell2	Mus musc	3304.559	20.6726	47.136



chr2	19281	AK220254	Ptprt	Mus musc	2774.755	18.7972	39.6409
chr12	72258	DQ185134	Kcnk10	Mus musc	1729.148	19.9818	18.0896
chr8	58198	BC062937	Sall1	Mus musc	944.1289	8.2557	13.5173
chr1	11899	BC094666	Astn1	Mus musc	2707.778	21.3841	38.9081
chr14	18530	BC053008	Pcdh8	Mus musc	7807.392	80.3995	114.1455
chr2	77288	AK163475	9430021M	Mus musc	867.9812	12.7641	7.3249
chr8	244484	AK044241	Wdr17	Mus musc	696.5312	6.9893	10.2439
chr5	140904	NM_18104	Caln1	Mus musc	3434.562	50.5692	49.8819
chr15	239650	BC095968	Al836003	Mus musc	6549.196	32.7223	39.0109
chr10	12140	BC055280	Fabp7	Mus musc	19076.1	206.2355	283.5415
chr1	19275	BC148365	Ptprn	Synthetic	8796.896	131.1597	61.6881
chr2	18389	AF043277	Oprl1	Mus musc	6112.739	64.344	35.9428
chr11	51799	BC046319	Rundc3a	Mus musc	1157.036	17.2982	13.4382
chr2	277432	BC058538	Vstm2l	Mus musc	3615.114	34.8961	33.8651
chr7	19771	AK014227	Rlbp1	Mus musc	4820.202	52.9008	72.7916
chr2	228942	BC132025	Cbln4	Mus musc	2920.595	20.8245	17.894
chr1	116837	AK162935	Rims1	Mus musc	4478.246	29.5802	68.0877
chr18	108013	BC048405	Bruno4	Mus musc	7587.074	44.521	53.0586
chr2	241656	BC148654	Pak7	Synthetic	5532.17	62.4601	85.0915
chr2	18508	AK045805	Pax6	Mus musc	3447.64	53.0466	29.5632
chr19	19879	BC014762	Slc22a8	Mus musc	1897.796	29.2674	23.3157
chr8	244484	AK013889	Wdr17	Mus musc	824.7895	8.8932	12.7655
chr1	11899	AK165200	Astn1	Mus musc	2520.592	11.1664	39.0819
chr13	75209	BC132111	Sv2c	Mus musc	4255.872	35.4545	66.3749
chr5	68666	BC059878	Svop	Mus musc	2772.004	38.8399	24.9558
chr3	N/A	AK003003	N/A	Mus musc	1672.529	11.0836	26.1676
chr4	15569	AK141919	Elavl2	Mus musc	13866.46	157.1695	217.1422
chr7	78286	AK084063	Nav2	Mus musc	1622.182	25.4653	23.4117
chr19	14419	BC044055	Gal	Mus musc	2688.208	42.2964	32.197
chr2	16536	AK079328	Kcnq2	Mus musc	1360.832	21.3028	21.4496
chr2	18508	AK032616	Pax6	Mus musc	923.6535	14.5967	12.0163
chr2	74189	AK038449	Phactr3	Mus musc	6276.45	41.2194	99.4375
chr2	18508	BC011272	Pax6	Mus musc	1058.842	16.7793	15.9045
chr3	329641	BC058995	6030405A	Mus musc	783.5771	9.9408	9.0474
chr5	64293	BC052404	Stk32b	Mus musc	10489.55	77.4794	104.7995
chr2	14810	BC039157	Grin1	Mus musc	3591.35	56.9935	57.1626
chr2	17391	BC156391	Mmp24	Synthetic	2121.722	33.8463	24.6971
chr11	237730	BC052068	Fbll1	Mus musc	2058.236	32.9644	32.2253
chr3	N/A	AK135051	N/A	Mus musc	3208.502	51.6754	20.5248
chr8	12745	BC050767	Clgn	Mus musc	4676.812	49.7751	75.9135
chr4	194237	BC057371	Rimk1a	Mus musc	2537.232	31.0132	41.326
chr5	13483	AK033808	Dpp6	Mus musc	7769.531	126.6675	105.2835
chr14	72125	BC056350	Fam123a	Mus musc	7026.255	99.4575	115.1135
chr6	11941	AK147369	Atp2b2	Mus musc	2750.448	34.3875	25.4079
chrX	66995	BC017627	Zcchc18	Mus musc	8760.06	102.8714	144.0615
chr10	20979	AK018163	Syt1	Mus musc	11378.5	121.5375	187.3495
chr9	13489	BC105665	Drd2	Mus musc	2140.828	25.019	17.4973
chr15	107831	BC036963	Bai1	Mus musc	10694.84	114.0715	177.4135
chr8	12404	BC132120	Cbln1	Mus musc	9661.15	110.5682	160.3319
chr17	18189	AB093249	Nrxn1	Mus musc	9827.04	163.1415	128.0535
chr3	72413	BC046227	Kcnmb2	Mus musc	577.1875	8.7203	8.2934
chr8	12308	BC017646	Calb2	Mus musc	5274.355	88.8235	42.9066
chr15	N/A	BC037726	N/A	Mus musc	7965.714	129.9315	134.8315

chr7	14407	BC148535	Gabrg3	Synthetic	649.7835	8.3973	11.0068
chr2	74189	AJ632220	Phactr3	Mus musc	5963.854	54.413	101.1215
chr13	75209	AK015921	Sv2c	Mus musc	3447.661	18.2047	58.4958
chr7	19259	BC079592	Ptpn5	Mus musc	4915.767	28.6937	24.8152
chr3	241919	BC061928	Slc7a14	Mus musc	1399.58	23.891	12.1298
chr7	54376	BC145971	Cacng3	Mus musc	4735.476	81.3475	34.7734
chr8	382018	AY753536	Unc13a	Mus musc	1338.665	15.9959	23.0387
chr12	18191	AK042730	Nrxn3	Mus musc	4529.07	17.1124	77.9593
chr16	50914	BC046316	Olig1	Mus musc	2906.777	34.3624	50.1182
chr2	19281	AF152556	Ptprt	Mus musc	5581.685	61.5441	96.3915
chr14	238988	AY356530	Erc2	alt '64305	6427.518	59.1855	111.6059
chr6	14812	AK163195	Grin2b	Mus musc	3609.731	57.7942	62.7516
chr12	69952	AK012713	2810011L1	Mus musc	1407.216	21.6941	24.6293
chr17	240121	BC055106	Fsd1	Mus musc	2775.664	36.769	48.6963
chr10	208666	BC057556	Diras1	Mus musc	7535.716	132.3975	120.9415
chr2	14810	AK158175	Grin1	Mus musc	3356.851	52.4395	59.1798
chr8	244484	AK020995	Wdr17	Mus musc	641.6119	8.636	11.3491
chr14	238988	AY356531	Erc2	alt '64305	5841.946	45.1591	103.6595
chr10	20979	BC042519	Syt1	Mus musc	8805.416	76.5495	156.3515
chr6	11941	AK054112	Atp2b2	Mus musc	6030.508	83.4835	107.2215
chr1	381270	BC098191	March4	Mus musc	3988.816	14.1054	28.5294
chr17	11516	AK079530	Adcyap1	Mus musc	439.0655	7.9081	6.1682
chr5	231760	AK044685	Rimbp2	Mus musc	597.9523	8.4742	9.0539
chr16	13840	AK077099	Epha6	Mus musc	539.4575	9.8646	8.0716
chr5	12889	BC014803	Cplx1	Mus musc	19788.99	312.2235	339.3295
chr15	11514	BC156810	Adcy8	Synthetic	3403.53	62.4999	45.5471
chr1	67792	BC065056	Rgs8	Mus musc	3232.451	56.3813	59.4873
chr7	11784	BC057620	Apba2	Mus musc	13882	211.3495	256.6195
chr11	17762	M18775	Mapt	Mouse tau	21625.89	275.3295	266.4715
chr3	12032	BC052032	Bcan	Mus musc	3872.25	71.4996	71.7976
chr15	72393	BC032278	Faim2	Mus musc	3222.991	59.8392	51.1639
chr13	94253	BC156260	Hecw1	Synthetic	8221.072	77.6295	152.6895
chr1	21367	AK147673	Cntn2	Mus musc	2422.008	25.156	45.0537
chr3	1E+08	XM_00147	Gm10742	PREDICT	349.4341	6.416	6.3352
chr2	17932	AF004294	Myt1	Mus musc	863.095	7.5806	16.1657
chr1	73844	BC049713	Ankrd45	Mus musc	601.3955	11.3508	11.1524
chr7	75770	AK158574	Brsk2	Mus musc	1115.374	13.5008	21.2593
chr7	19259	AK038416	Ptpn5	Mus musc	8406.422	119.6335	113.1995
chr1	329178	XM_00147	Unc80	PREDICT	715.0715	13.9145	12.3152
chr1	21367	BC066106	Cntn2	Mus musc	2525.146	39.5117	49.4459
chr12	104001	BC030455	Rtn1	Mus musc	33178.84	537.4435	650.6715
chr8	12745	AK034525	Clgn	Mus musc	467.1735	6.9569	9.1641
chr6	108653	AK016936	Rimkb	Mus musc	2909.451	28.5182	57.5923
chr15	215654	BC086655	Cdh12	Mus musc	488.6622	9.6847	8.3553
chr15	16682	BC145839	Krt4	Mus musc	6805.236	45.0796	135.1655
chr5	13483	BC048383	Dpp6	Mus musc	11671.01	189.9215	232.7415
chr5	14738	BC055746	Gpr12	Mus musc	2449.756	48.8796	41.6705
chr19	18190	AK170622	Nrxn2	Mus musc	1166.657	22.3338	15.9406
chr3	64580	AK132938	Ndst4	Mus musc	610.4384	12.2697	10.0755
chr16	224065	BC117024	Uts2d	Mus musc	774.1375	14.2252	12.1705
chr11	18197	BC018224	Nsg2	Mus musc	20334.38	280.0875	409.9112
chr13	94253	AK047678	Hecw1	Mus musc	2222.357	45.0228	44.1826
chr8	244484	BC042703	Wdr17	Mus musc	539.3375	8.9185	8.0636

chr1	17756	M21041	Mtap2	Mouse mic	6255.099	89.1975	128.3855
chr7	209776	BC125496	Gpr139	Mus musc	955.5095	12.3729	17.6409
chr7	434147	AK142847	D930028M	Mus musc	611.3495	11.7062	11.623
chr6	11519	AK156954	Add2	Mus musc	10549.56	217.9815	204.9301
chr1	21960	BC132392	Tnr	Mus musc	1560.022	32.2657	25.0367
chr15	66696	BC061007	Snx31	Mus musc	509.8615	9.418	10.5583
chr16	56370	BC043027	Tagln3	Mus musc	11089.03	176.5895	207.3535
chr5	58212	BC051947	Srrm3	Mus musc	9423.27	124.7455	196.2935
chr18	20689	X97581	Sall3	alt 'B1300	668.6035	12.7724	13.9663
chr11	624168	XM_88868	Gm12241	PREDICTI	407.8235	8.2781	5.935
chr2	18510	BC020526	Pax8	Mus musc	3432.946	71.8016	62.4864
chr14	20508	BC120498	Slc18a3	Mus musc	1821.418	14.4563	20.4293
chr1	240690	AK137440	St18	Mus musc	779.6315	12.6662	9.6007
chr7	52480	BC070450	D7Ert715	Mus musc	276.1645	4.2996	5.5318
chr6	269788	BC085130	Lhfpl4	Mus musc	7168.257	117.2915	151.881
chr14	56471	BC046752	Stmn4	Mus musc	14272.46	272.5455	304.0215
chr2	77771	AK082649	Csrnp3	Mus musc	2566.176	20.751	54.7246
chr15	107831	AK046831	Bai1	Mus musc	10231.31	219.8303	158.7955
chr7	272381	BC060263	Lrrc4b	Mus musc	4127.172	47.7676	88.9455
chr6	330369	BC070445	Fbxo41	Mus musc	2816.263	30.2338	60.8508
chr2	14029	BC061467	Evx2	Mus musc	327.9007	7.1135	6.3352
chr15	239420	AK140264	Csmd3	Mus musc	562.8395	12.2277	11.9531
chr13	75209	XM_99125	Sv2c	PREDICTI	4960.78	71.2996	107.7855
chr16	56370	BC055338	Tagln3	Mus musc	7957.498	129.8153	153.8692
chr9	209743	BC113792	AF529169	Mus musc	3073.372	67.1248	38.2148
chr8	382018	AK083196	Unc13a	Mus musc	3929.747	56.9128	86.4515
chr2	N/A	XM_00147	N/A	PREDICTI	666.5085	14.7197	13.3255
chr6	11519	AK029488	Add2	Mus musc	10531.6	210.7162	232.9595
chr18	328971	BC125360	Spink10	Mus musc	505.3055	8.6529	11.224
chr2	228858	AK141371	Gdap11	Mus musc	1219.302	15.0472	20.0969
chr15	239420	AK122567	Csmd3	Mus musc	390.9838	8.4129	8.7145
chr4	242748	BC072569	Ptchd2	Mus musc	1153.118	16.759	25.7862
chr18	74002	AK045529	Psd2	Mus musc	4108.73	48.4789	92.1335
chr12	104001	BC053926	Rtn1	Mus musc	27377.71	586.5375	615.3269
chr5	58212	BC058385	Srrm3	Mus musc	3787.36	50.4494	85.6855
chr5	18935	BC079610	Phox2b	Mus musc	945.3595	21.4333	20.6232
chr18	353234	BC156386	Pcdha2	Synthetic	988.2361	19.4135	22.5076
chr7	233919	BC119380	Gpr26	Mus musc	459.6715	10.4806	7.769
chr1	116837	BC055294	Rims1	Mus musc	2523.211	49.3408	57.6343
chr17	18189	AK163484	Nrxn1	Mus musc	394.3955	9.0461	5.043
chr1	240690	BC118528	St18	Mus musc	821.7535	18.9801	18.9684
chr2	19281	AF162857	Ptptr	Mus musc	1890.496	43.7557	24.9413
chr13	320203	AK013308	C130071C	Mus musc	473.4895	8.0704	6.1583
chr1	241175	AK082656	Cntnap5b	Mus musc	1497.93	34.7503	30.4374
chr10	110333	AK083030	Rmst	Mus musc	348.9155	7.4692	8.1926
chrX	78283	AK162227	Mtap7d2	Mus musc	7926.004	173.4515	186.1875
chr6	11519	AK147544	Add2	Mus musc	7721.406	138.0815	104.4755
chr19	18190	AK129239	Nrxn2	Mus musc	15224.24	240.1869	360.1695
chr18	12942	BC156384	Pcdha11	Synthetic	2128.85	37.2236	50.6115
chr6	320265	BC132179	Fam19a1	Mus musc	610.3295	11.718	13.9766
chr10	319586	BC079845	Brunol5	Mus musc	7544.053	158.2132	180.2715
chr15	54003	U59230	Nell2	Mus musc	10541.52	130.9042	253.1775
chr1	73844	XM_35525	Ankrd45	PREDICTI	636.8238	10.5997	15.3516

chr13	27220	BC056431	Cartpt	Mus musc	613.9015	11.2418	8.9342
chr4	230959	NM_00109	Ajap1	Mus musc	3780.424	70.6996	91.1995
chrX	1E+08	AK134610	5330434G	Mus musc	609.6974	12.3793	9.2695
chrX	22067	BC112972	Trpc5	Mus musc	967.5361	21.5402	23.3908
chrX	72693	BC049071	Zcchc12	Mus musc	14658.32	160.576	355.9362
chr17	20974	BC025022	Syngn3	Mus musc	2346.554	40.0546	46.7155
chr5	13483	AK158964	Dpp6	Mus musc	10771.99	254.2597	263.6315
chr10	319586	AK132321	Brunol5	Mus musc	4632.571	79.2215	114.2975
chr5	13483	BC085154	Dpp6	Mus musc	1411.984	34.8761	32.5837
chr2	241727	AK138230	Snph	Mus musc	605.2327	15.0234	14.6533
chrX	245468	BC036726	Pnma3	Mus musc	382.2506	9.0709	7.8003
chr13	75209	AK173092	Sv2c	Mus musc	1084.216	15.1165	27.085
chr9	76183	BC057083	Brunol6	Mus musc	911.3795	15.552	18.4227
chr13	104069	BC019409	Sncb	Mus musc	10147.57	104.0755	255.1375
chr12	238205	BC052038	Lfn5	Mus musc	3234.67	14.725	82.0095
chr10	16572	BC058396	Kif5a	Mus musc	8347.155	196.0875	214.6795
chr4	242384	AK141568	Lingo2	Mus musc	991.5635	22.2632	25.5865
chr15	22045	M94384	Trhr	Mus musc	244.5575	6.3199	5.3348
chr3	17116	BC014750	Mab2111	Mus musc	8436.533	162.3735	218.1975
chr16	239857	AK046800	Cadm2	Mus musc	5381.71	120.0473	127.1617
chr13	26913	AK144210	Gprin1	Mus musc	3776.989	69.9119	98.3015
chrX	67790	BC050853	Rab39b	Mus musc	1703.747	34.5702	44.4613
chr5	68955	AK165719	Srrm4	Mus musc	2892.46	75.3975	75.5157
chr6	11519	AK028425	Add2	Mus musc	1806.939	29.2036	34.8547
chr1	213527	BC140402	Pth2r	Synthetic	328.1976	8.573	8.223
chr16	239789	AK141059	Gm606	Mus musc	425.1892	11.1473	10.5682
chr18	12936	BC060211	Pcdha4	Mus musc	3347.978	80.3509	87.8795
chr5	243043	BC116942	Kctd8	Mus musc	1120.29	19.0869	29.4785
chrX	209837	BC152401	Slc38a5	Mus musc	1211.474	31.9837	15.4369
chr9	76183	BC052406	Brunol6	Mus musc	863.7815	22.8258	15.1801
chr8	22152	BC031357	Tubb3	Mus musc	32191.86	851.5235	805.4615
chr14	75288	BC145720	Slc35f4	Mus musc	538.7055	11.4167	10.5099
chr12	19276	BC133678	Ptpn2	Mus musc	1366.028	26.4682	20.8596
chr4	242773	AK134677	Slc45a1	Mus musc	944.3881	25.1328	16.483
chr7	71691	BC048228	Pnmal1	Mus musc	5066.896	136.5475	127.8835
chr3	75769	BC031879	4833424O	Mus musc	688.1703	7.968	18.5789
chr1	215378	AK083233	Fam5c	Mus musc	1020.242	27.5634	24.9025
chr2	78511	AK085300	3110099E	Mus musc	330.7324	7.4769	7.907
chr7	17760	BC053039	Mtap6	Mus musc	20004.52	410.2135	540.9915
chr2	241514	AK043989	Zfp804a	Mus musc	3100.405	34.0801	70.8064
chr10	110333	AK082467	Rmst	Mus musc	325.0207	6.2129	8.7925
chr8	1E+08	XM_00147	Gm2694	PREDICT	901.9635	13.1377	24.4117
chr7	407812	BC068250	BC066028	Mus musc	886.5817	14.03	24.0319
chr2	11438	BC053013	Chrna4	Mus musc	2792.046	62.195	75.7995
chr5	56747	BC056471	Sez6l	Mus musc	2372.376	23.0256	64.5961
chrX	N/A	AF085809	N/A	Mus musc	7957.785	152.3995	192.4349
chr1	215378	BC030498	Fam5c	Mus musc	2391.85	65.5379	38.9794
chr8	72902	AK049843	Spock3	Mus musc	2069.554	38.4649	57.1838
chr1	215378	BC099956	Fam5c	Mus musc	2114.662	58.4318	40.2714
chrX	245670	BC069180	Rragb	Mus musc	2462.326	35.5423	68.0384
chr1	320460	BC094541	Vwc2l	Mus musc	269.7023	7.4591	5.7237
chr16	14167	BC030485	Fgf12	Mus musc	1270.362	11.7274	35.6279
chr1	66297	BC059892	2610017I0	Mus musc	429.1375	8.3213	8.3141



chr10	268354	AK032483	Fam19a2	Mus musc	3704.472	37.891	104.5575
chr15	76505	BC094356	150009C	Mus musc	577.1755	11.1015	14.1975
chr19	545276	BC066996	Gal3st3	Mus musc	1240.841	14.0086	17.7804
chr1	72160	BC046234	Tmem163	Mus musc	3021.088	85.4235	39.1252
chr17	268932	AK014376	Caskin1	Mus musc	1170.584	33.1023	31.8778
chr2	14810	AK036204	Grin1	Mus musc	521.1821	11.6528	7.7718
chr2	77771	AK158873	Csrnp3	Mus musc	8573.38	203.111	243.5895
chr5	76071	AK017977	Jakmip1	Mus musc	1078.538	15.8387	20.6147
chr8	234267	BC043130	Gpm6a	Mus musc	13217.27	150.526	378.4595
chr18	74002	BC066036	Psd2	Mus musc	3698.914	35.585	106.5575
chr1	13599	AK159365	Ecel1	Mus musc	5165.562	89.3151	148.8255
chr6	320265	AK049880	Fam19a1	Mus musc	1337.978	38.6435	26.6268
chr6	232370	AK213543	Clstn3	Mus musc	4167.4	121.3075	88.2675
chr10	319586	XM_61878	Brunol5	PREDICT	7897.924	230.2207	170.5835
chr12	320772	AK137667	Mdga2	Mus musc	2788.343	48.2093	81.2814
chr2	17932	BC063252	Myt1	Mus musc	892.7988	17.7398	26.0289
chr11	14654	BC131949	Gira1	Mus musc	782.6613	22.8258	13.8331
chr15	107831	BC059857	Bai1	Mus musc	5769.785	140.9379	169.4295
chr10	268354	AK140763	Fam19a2	Mus musc	1758.568	11.4798	51.8825
chr8	244310	BC118969	Dlgap2	Mus musc	655.4757	16.9462	19.348
chr2	14417	AK141473	Gad2	Mus musc	669.3515	13.849	19.7635
chrX	78283	AK030316	Mtap7d2	Mus musc	2449.849	50.8731	72.6016
chr12	217733	AK043536	Tmem63c	Mus musc	1348.802	16.0822	21.6127
chr10	67569	BC046987	Mgat4c	Mus musc	271.8895	7.5491	8.0808
chr5	231290	BC132529	Slc10a4	Mus musc	4990.636	121.6317	148.6795
chr1	271711	BC116730	Tmem169	Mus musc	1907.872	28.9872	56.9487
chr8	234214	AK139388	Sorbs2	Mus musc	4602.806	72.9176	137.5455
chr7	15132	BC052008	Hbb-bh1	Mus musc	248.6395	7.4488	6.4454
chr5	14400	BC130258	Gabrb1	Mus musc	967.5135	10.0139	29.0938
chr4	230959	XM_48550	Ajap1	PREDICT	3729.766	112.2355	100.4635
chr9	14802	AK032103	Gria4	Mus musc	4520.01	37.8241	136.4655
chr13	218038	BC043718	Amph	Mus musc	3309.425	62.2544	100.4796
chr16	N/A	AK164699	N/A	Mus musc	6587.172	34.0025	60.2868
chr7	15372	BC023402	Hmx2	Mus musc	398.7215	8.6023	12.2697
chr15	116838	AK032619	Rims2	Mus musc	408.978	8.433	8.3457
chr14	319984	AK036161	Jph4	Mus musc	1282.502	12.9856	39.7495
chr9	207667	AB185113	Lbxcor1	Mus musc	988.6794	30.6456	27.5817
chr10	70911	BC037618	Phyhipl	Mus musc	6995.768	117.6975	217.1115
chr18	12937	BC054813	Pcdha6	Mus musc	15168.18	307.7559	471.1885
chr10	94222	BC057564	Olig3	Mus musc	578.9095	6.7343	14.0413
chr10	69754	AK038649	Fbxo7	Mus musc	6961.023	202.1909	218.8195
chr3	1E+08	XM_00147	Gm2464	PREDICT	283.7095	8.181	8.9337
chr1	269116	AK129207	Nfasc	Mus musc	3075.592	62.5508	48.9204
chr3	72413	AK014106	Kcnmb2	Mus musc	724.2216	22.8582	14.7029
chr1	71096	AF367759	Sntg1	Mus musc	450.5735	9.275	9.6632
chr2	319317	AK157790	Snhg11	Mus musc	2679.506	85.9075	82.4295
chr10	319586	AK029796	Brunol5	Mus musc	8297.37	218.9475	266.6735
chr18	116731	BC082326	Pcdha1	Mus musc	3114.949	46.5602	100.4363
chr13	20745	BC075625	Spock1	Mus musc	13832.87	270.6055	446.0915
chr9	76898	AK041316	B3gat1	Mus musc	2348.793	24.4315	75.9975
chr11	52897	AK160816	D11Bwg05	Mus musc	4268.503	138.2355	63.0783
chr8	234267	BC023461	Gpm6a	Mus musc	14004.02	169.6895	382.2115
chr4	69352	BC067055	Necab1	Mus musc	4803.678	94.7239	155.8775

chr14	103978	BC115712	Gpc5	Mus musc	1743.869	27.577	56.637
chr12	238271	BC066138	Kcnh5	Mus musc	759.186	15.12	24.7
chr1	N/A	AK162963	N/A	Mus musc	384.8472	12.5549	6.1583
chr4	230863	NM_00109	Sh2d5	Mus musc	1214.484	33.4142	39.6815
chr8	14681	BC051989	Gnao1	Mus musc	12155.13	334.6348	398.9015
chr6	12121	AK220497	Bicd1	Mus musc	932.4542	11.3097	30.6568
chr1	241134	AK137094	9430031J1	Mus musc	343.1524	7.5565	11.2833
chr1	93690	BC118510	Gpr45	Mus musc	499.5265	14.9278	13.7974
chr13	218038	AK132168	Amph	Mus musc	3622.124	53.3023	119.1675
chr2	241688	AK163994	6330439K	Mus musc	1481.502	39.2314	48.7721
chr7	407827	BC058420	BC058420	Mus musc	240.8735	7.4662	7.9374
chr17	106763	AK144536	Ttbk1	Mus musc	922.125	29.7966	30.4522
chr9	387285	AY336084	Hcrtr2	Mus musc	3180.854	105.0655	75.1475
chr5	791323	BC079612	Gm9954	Mus musc	971.1844	32.0904	25.5247
chr1	66297	AK019154	2610017I0	Mus musc	609.8391	10.4686	20.1822
chr1	269116	AK138636	Nfasc	Mus musc	4021.606	78.2361	91.5915
chr9	319970	AK045913	B230323A	Mus musc	193.3395	6.408	5.2537
chr10	110333	AK086758	Rmst	Mus musc	417.1095	13.8331	11.5347
chr10	14816	BC079566	Grm1	Mus musc	674.8403	13.6264	22.4454
chr18	76217	XM_12901	Jakmip2	PREDICT	4905.144	163.6424	138.1019
chr18	14680	BC078439	Gnal	Mus musc	14569.22	486.4415	441.5715
chr4	242384	BC090619	Lingo2	Mus musc	4454.488	100.1422	148.7455
chr7	68566	BC049663	Caly	Mus musc	970.9235	29.5632	23.8609
chr15	116838	BC118979	Rims2	Mus musc	4711.454	99.584	115.8515
chr2	77771	BC055701	Csrnp3	Mus musc	9806.086	240.0039	328.9875
chr5	22255	BC051973	Uncx	Mus musc	1595.93	53.7589	32.2963
chr15	170790	AK122190	Mlc1	Mus musc	4027.021	61.4813	31.2544
chr17	63993	BC065089	Slc5a7	Mus musc	402.7075	9.4619	13.6336
chr10	56533	BC064782	Rgs17	Mus musc	2682.46	81.6855	87.0475
chr5	243043	BC116940	Kctd8	Mus musc	973.5886	13.5583	33.0221
chr5	231760	BC152821	Rimbp2	Synthetic	3449.402	77.4895	117.4635
chr5	108069	BC111891	Grm3	Mus musc	6389.622	141.3395	217.6295
chrX	1E+08	AK163556	5330434G	Mus musc	308.4877	5.5683	6.2248
chr15	406218	BC141516	Panx2	Synthetic	999.6694	31.437	26.6171
chr15	239420	AK078076	Csmd3	Mus musc	289.0275	8.284	9.9363
chr18	108013	BC052744	Bruno14	Mus musc	5513.442	99.3595	114.9015
chr8	170571	BC034628	Cntnap4	Mus musc	665.5415	14.7793	22.9089
chr18	72930	BC026686	Ppp2r2b	Mus musc	13643.25	421.1975	472.2135
chr10	327814	AK087448	Ppfia2	Mus musc	3171.942	95.9515	110.0195
chr15	24050	AK046722	Sept3	Mus musc	11989.42	81.2164	117.0971
chr1	241118	BC055772	Accn4	Mus musc	6754.598	120.3561	234.5892
chr14	319984	BC052049	Jph4	Mus musc	7155.831	128.7135	249.1615
chr6	77796	AK020835	A930009E	Mus musc	5931.735	128.7709	173.0964
chr15	110862	BC116306	Kcnq3	Mus musc	521.7496	12.0528	18.4159
chr5	52822	BC049127	Rufy3	Mus musc	6164.966	122.8015	167.9415
chr10	N/A	AK031910	N/A	Mus musc	2707.092	23.6384	56.4931
chrX	20964	BC022954	Syn1	Mus musc	4102.162	111.6235	145.3015
chr1	329178	BC116430	Unc80	Mus musc	768.793	18.6489	27.238
chr12	217733	BC056936	Tmem63c	Mus musc	1372.996	36.9961	33.5705
chr15	19132	BC046291	Prph	Mus musc	1883.158	66.752	50.1852
chr16	207227	AY542326	Stxbp5l	alt '943009	1225.579	13.6599	34.7355
chr17	17441	BC080860	Mog	Mus musc	1995.156	71.1079	65.8699
chr7	381925	BC120497	Ppapdc1a	Mus musc	1167.752	41.7298	36.761



chr12	18191	AK129205	Nrxn3	Mus musc	7505.634	160.7915	268.7233
chr14	319984	BC052722	Jph4	Mus musc	6556.762	110.9655	235.0158
chr6	14823	AY673682	Grm8	Mus musc	2495.214	82.1495	89.7735
chr3	269437	AK173095	Plch1	Mus musc	612.4295	17.0186	22.0466
chr4	242443	AK138366	Grin3a	Mus musc	4401.872	124.4097	158.7735
chr1	20980	BC027019	Syt2	Mus musc	2048.22	56.4071	73.8965
chr5	13839	BC057401	Epha5	Mus musc	4952.47	102.2413	178.7977
chr16	16522	AB029502	Kcnj6	Mus musc	1112.923	29.1553	40.1835
chr12	627191	BC132221	Tmem90a	Mus musc	2204.736	59.3594	40.3884
chr14	338370	AK043071	Nalcn	Mus musc	1676.718	48.5324	60.6889
chr14	1E+08	XM_00147	Gm4210	PREDICT	236.5395	6.5289	8.5662
chr6	58807	BC078456	Slco1c1	Mus musc	1146.814	16.338	41.6367
chr5	56747	AK122401	Sez6l	Mus musc	2430.322	41.0094	88.5495
chr8	234267	BC029711	Gpm6a	Mus musc	13681.72	208.2255	367.9635
chr4	1E+08	XM_00147	Gm11837	PREDICT	4757.394	113.0475	174.6135
chr14	107751	BC132613	Prrxl1	Mus musc	268.6527	8.2557	7.218
chr12	72258	BC132487	Kcnk10	Mus musc	1814.412	26.5679	22.7785
chr1	73100	AK053590	2900092D	Mus musc	810.9235	16.0114	30.0602
chr14	N/A	AK138643	N/A	Mus musc	363.1335	13.4999	8.7967
chr13	18548	BC108982	Pcsk1	Mus musc	432.8755	16.1773	13.0775
chr14	75409	BC065107	Slitrk5	Mus musc	1687.952	35.2696	63.1583
chr10	16467	BC048903	Atcay	Mus musc	9132.977	313.9595	341.9795
chr1	N/A	AK043174	N/A	Mus musc	296.0695	11.1006	7.0155
chr2	170738	AK034003	Kcnh7	Mus musc	358.5633	10.1969	11.09
chr4	17180	BC047140	Matn1	Mus musc	457.5926	16.2835	14.2894
chr17	320111	BC060190	Prr18	Mus musc	2268.428	62.9588	85.2001
chrX	331461	XM_48672	Il1rapl1	PREDICT	1343.586	33.7631	36.9507
chr15	239318	AK044972	Plcx3	Mus musc	3452.078	130.0149	97.7135
chr14	70713	XM_98604	Gpr137c	PREDICT	842.9617	23.885	31.8778
chr2	241589	AK052518	D430041D	Mus musc	2621.294	52.3197	99.2995
chr2	77771	AB091688	Csrnp3	Mus musc	8613.51	211.1055	326.6915
chr18	12939	BC080863	Pcdha7	Mus musc	12671.68	306.2968	480.6275
chr4	15444	BC049607	Hpca	Mus musc	9373.233	355.9235	350.49
chrX	331461	BC119580	Il1rapl1	Mus musc	410.7995	15.6402	11.9264
chr4	242384	BC145692	Lingo2	Mus musc	3662.556	74.6695	140.1955
chrX	12069	BC027529	Bex2	Mus musc	10117.14	284.5548	387.5855
chr9	208982	BC037381	Hmgcll1	Mus musc	867.2655	13.8276	24.3334
chr1	213409	BC115462	Lemd1	Mus musc	642.3955	20.4866	17.607
chr4	69352	AK050307	Necab1	Mus musc	2464.23	25.3759	94.6576
chr6	12121	BC016192	Bicd1	Mus musc	2496.326	75.2395	95.9515
chr3	360213	BC065049	Trim46	Mus musc	3448.716	114.0982	132.9675
chr17	407788	BC051142	BC051142	Mus musc	339.2266	11.562	12.236
chr9	114873	AB093285	Dscaml1	Mus musc	5745.173	179.0215	222.2786
chr2	18610	AF026537	Pdyn	Mus musc	680.1535	11.3816	10.8891
chr9	67703	AK045373	Kirrel3	Mus musc	1609.559	47.3233	62.3542
chr1	16876	BC072623	Lhx9	Mus musc	340.8595	12.0772	13.2346
chr2	228858	AK140488	Gdap111	Mus musc	242.8711	8.4304	7.7821
chrX	20964	NM_00111	Syn1	Mus musc	6352.518	140.7295	159.7535
chr4	15572	DQ460221	Elavl4	Mus musc	812.3135	31.811	13.6553
chr5	14405	AK034085	Gabrg1	Mus musc	250.1544	6.889	9.366
chr7	210274	AB099695	Shank2	Mus musc	4233.938	143.061	166.8231
chr16	14811	BC146289	Grin2a	Synthetic	1462.118	57.8482	23.8833
chr1	103967	AK049724	Dnm3	Mus musc	2645.57	54.8784	104.7595

chr2	57138	BC054808	Slc12a5	Mus musc	7162.542	222.3455	283.7575
chr3	N/A	AK051575	N/A	Mus musc	1031.76	23.505	40.8788
chr18	108013	AK044072	Bruno14	Mus musc	185.2935	6.8845	5.918
chr16	13840	AK090366	Epha6	Mus musc	657.4739	26.2098	11.6901
chrX	209837	AK158125	Slc38a5	Mus musc	487.0095	19.4536	8.4999
chr1	210933	BC079670	Bai3	Mus musc	5690.114	187.4575	227.3778
chr16	50525	BC090660	Spag6	Mus musc	475.1329	13.5219	18.9947
chr10	27204	BC107397	Syn3	Mus musc	2446.526	93.9216	97.8595
chr1	210933	AK081421	Bai3	Mus musc	5858.186	172.1875	235.1535
chr1	16560	BC054538	Kif1a	Mus musc	4683.72	120.0556	188.026
chr7	12426	BC103530	Cckbr	Mus musc	347.0282	13.9482	9.051
chr9	15379	AK050237	Onecut1	Mus musc	404.6421	11.0679	16.2968
chr6	109593	BC057086	Lmo3	Mus musc	4946.448	116.3495	200.3875
chr18	328971	BC049733	Spink10	Mus musc	523.7795	18.9672	21.2613
chr17	63993	AK053063	Slc5a7	Mus musc	1384.676	26.7384	56.3312
chr4	18992	AK039117	Pou3f2	Mus musc	3429.101	75.9396	71.4796
chr6	330369	AK147681	Fbxo41	Mus musc	1256.928	32.6499	45.8178
chr10	77531	AK034154	Anks1b	Mus musc	368.5855	8.7616	15.0583
chr15	239336	BC053073	Rxfp3	Mus musc	857.619	30.8409	35.1777
chr3	72789	BC128271	Veph1	Mus musc	648.8178	26.7384	17.5345
chr1	320460	AK083856	Vwc2l	Mus musc	141.0695	5.8158	5.0638
chr7	26757	AK145638	Dpysl4	Mus musc	7835.78	267.5215	323.5338
chr17	211468	BC152323	Kcni8	Mus musc	1021.816	42.2389	42.2177
chr11	380728	BC156352	Kcni4	Synthetic	890.3661	36.8612	31.4723
chr15	271305	AK042863	Phf21b	Mus musc	2424.929	100.5602	100.2175
chr12	17933	AK049967	Myt1l	Mus musc	594.7715	16.594	24.7301
chr2	20274	AK142068	Scn9a	Mus musc	619.6182	15.9702	25.8041
chr7	381983	BC083185	Lmtk3	Mus musc	12212.66	485.7495	509.0575
chr2	414123	AK140370	E530001K	Mus musc	495.1515	20.6943	9.4264
chr1	269116	AK052440	Nfasc	Mus musc	3121.671	56.4811	68.7426
chr5	22784	BC066199	Slc30a3	Mus musc	3319.6	87.0795	87.3351
chr1	20980	AB036514	Syt2	Mus musc	1133.228	45.1114	28.0166
chr7	110886	BC062112	Gabra5	Mus musc	322.4295	10.0447	7.885
chr14	668306	XM_00100	Gm9096	PREDICT	1402.35	33.9871	58.8796
chr8	110304	BC140461	Gira3	Synthetic	238.1635	10.0246	6.5994
chrX	319642	BC107383	Rab9b	Mus musc	1015.156	24.8112	42.8411
chr9	22774	AK028305	Zic4	Mus musc	3746.782	101.6049	158.1998
chr1	16560	AK147640	Kif1a	Mus musc	5212.138	131.0115	220.5495
chr2	319317	BC030414	Snhg11	Mus musc	6532.458	276.5535	192.1595
chr14	56471	BC014707	Stmn4	Mus musc	1946.448	75.1451	82.7255
chr6	64450	AK043090	Gpr85	Mus musc	10542.89	303.1055	448.9215
chr3	1E+08	XM_00147	Gm3764	PREDICT	2848.882	62.1305	79.5275
chr10	432450	DQ065607	Nkain2	Mus musc	928.2275	39.704	35.1121
chr7	53420	BC047148	Syt5	Mus musc	1823.71	58.234	78.0455
chr11	15223	BC082543	Foxj1	Mus musc	1017.615	34.3235	43.5833
chr1	21367	BC053033	Cntn2	Mus musc	255.2876	10.6613	10.9663
chr1	20980	AF257304	Syt2	Mus musc	2029.821	70.4216	87.2758
chrX	15560	BC098327	Htr2c	Mus musc	196.5136	6.5475	8.4517
chr11	237868	AY444167	Sarm1	Mus musc	1050.12	16.347	45.177
chrX	13193	AY560329	Dcx	Mus musc	16433.72	480.4582	708.0635
chr1	497097	AK135172	Xkr4	Mus musc	2029.032	82.7535	87.4755
chr12	94090	NM_00111	Trim9	Mus musc	1174.83	33.1768	50.7887
chr10	77531	AK032211	Anks1b	Mus musc	3204.032	125.8888	139.2235



chr16	545156	XM_00148	Kalrn	PREDICT	1427.467	46.3317	62.0345
chr14	50787	BC118035	Hs6st3	Mus musc	4290.972	186.8345	184.3168
chr2	381418	AK141570	Ctxn2	Mus musc	248.8035	10.8839	8.1298
chr14	12294	BC140359	Cacna2d3	Synthetic	8310.668	156.5495	363.6895
chr2	75276	AK016334	Ppp1r1c	Mus musc	510.8095	22.385	21.7351
chr7	381983	BC094377	Lmtk3	Mus musc	11231.93	490.0715	492.7059
chr16	50913	BC051967	Olig2	Mus musc	670.0676	18.8324	12.481
chr13	210108	BC115940	D130043K	Mus musc	685.1455	25.3095	18.9408
chr13	94191	BC052426	Adarb2	Mus musc	564.9895	10.0878	24.9765
chr2	18389	AF075605	Opr1	alt 'KOR3'	678.6537	18.317	20.0042
chr6	381813	BC060250	Prmt8	Mus musc	6044.55	131.2075	267.8315
chr7	233878	BC096615	Sez6l2	Mus musc	11110.68	493.9351	341.6995
chr3	626082	AK044425	LOC62608	Mus musc	284.1335	12.6564	9.4544
chr8	270028	AK162130	Fam155a	Mus musc	1790.898	20.1448	80.0155
chr17	23969	AK077958	Pacsin1	Mus musc	3102.436	82.7695	138.7535
chr12	238323	AK031847	Rps6kl1	Mus musc	807.1995	17.7146	36.2355
chrX	13193	BC056391	Dcx	Mus musc	12370.79	378.9035	555.9891
chr1	17756	AK164828	Mtap2	Mus musc	14321.56	533.6235	644.3055
chr7	232975	BC042894	Atp1a3	Mus musc	25715.74	289.1975	154.7552
chr16	207227	AK161955	Stxbp5l	Mus musc	345.402	8.9439	15.7213
chr15	432939	XM_00147	Gm5468	PREDICT	1974.352	86.5255	69.7097
chr13	218030	BC094915	Pou6f2	Mus musc	434.0795	17.1947	19.8109
chr5	22223	AK170728	Uchl1	Mus musc	14078.59	552.9015	644.1735
chr14	239157	BC065116	Pnma2	Mus musc	2599.944	53.4347	119.2203
chr16	207227	AY542325	Stxbp5l	alt '943009	632.4221	15.9232	17.5141
chr5	52822	BC017648	Rufy3	Mus musc	8785.146	194.0915	233.9195
chr11	237868	AK044113	Sarm1	Mus musc	2110.99	97.0155	84.0475
chr16	14805	AK044250	Grik1	Mus musc	825.7086	31.3955	37.9969
chr12	94090	AF220039	Trim9	Mus musc	11174.57	224.9295	516.6735
chr4	242662	BC115536	Rims3	Mus musc	3276.292	68.7186	151.6175
chr7	16502	AK162964	Kcnc1	Mus musc	1633.627	34.8961	62.4144
chrX	23963	AK047423	Odz1	Mus musc	653.8695	7.0806	30.3913
chr16	18546	BC061164	Pcp4	Mus musc	4425.654	65.9479	75.2475
chr1	16876	AK013209	Lhx9	Mus musc	368.8475	17.198	8.7925
chr12	217682	AK028383	3830431G	Mus musc	1357.754	62.2944	63.3342
chr1	16560	AY426748	Kif1a	Mus musc	6957.258	201.5615	325.8075
chr12	319504	BC055053	Nrcam	Mus musc	4617.646	158.9823	216.4715
chr6	243499	BC037216	Lrrtm4	Mus musc	4699.814	97.4835	220.8855
chr8	94109	AK220429	Csmd1	Mus musc	524.5757	15.3383	14.2605
chr9	20669	XM_28452	Sox14	PREDICT	449.1035	21.347	11.9825
chr13	94191	BC059822	Adarb2	Mus musc	2480.96	66.7235	117.9355
chr3	192167	BC098461	Nlgn1	Mus musc	8586.927	310.833	408.9035
chr18	664805	NM_00110	Gm7348	Mus musc	1485.333	40.3569	70.7576
chr6	76156	AK163654	Fam131b	Mus musc	1989.7	89.0635	95.1075
chr15	239408	BC117021	Tmem74	Mus musc	1266.704	41.7478	60.5869
chr8	270028	BC117535	Fam155a	Mus musc	5878.322	131.3155	281.2745
chr14	239133	BC038059	Dleu7	Mus musc	1559.913	53.3702	74.7555
chr6	74342	AK053345	Lrrtm1	Mus musc	611.5355	24.8533	29.3871
chr3	75769	AY512657	4833424O	Mus musc	1357.386	15.3876	65.258
chr2	381353	BC065698	Gm996	Mus musc	1792.2	69.9956	48.9145
chr2	192285	BC019181	Phf21a	Mus musc	2207.938	98.5315	106.2813
chr15	24050	AK141915	Sept3	Mus musc	22916.86	323.2115	409.3655
chr3	15168	BC039156	Hcn3	Mus musc	1788.664	37.5414	86.2475

chr4	73094	AK148302	Sgip1	Mus musc	6147.037	193.3259	296.7735
chr18	12405	AK076174	Cbln2	Mus musc	5699.182	275.5815	245.0895
chr12	238331	BC128021	Zdhhc22	Mus musc	399.2855	19.3126	18.4364
chrX	331374	BC075627	Dgkk	Mus musc	580.1685	10.7574	28.1102
chr14	70713	XM_00147	Gpr137c	PREDICT	1114.096	42.6924	53.9814
chr17	20420	BC103798	Shd	Mus musc	2810.588	78.9295	136.3365
chr3	18072	BC058413	Nhlh2	Mus musc	1049.893	26.8587	50.5154
chr1	240843	BC067038	Fam5b	Mus musc	2800.126	136.1615	118.5915
chr14	70713	AY255546	Gpr137c	Mus musc	2386.32	83.5395	116.1172
chr6	58243	BC046332	Nap115	Mus musc	9818.436	309.2435	478.3435
chr7	212518	BC056484	Sprn	Mus musc	2801.071	101.4993	136.5795
chr3	64051	BC046587	Sv2a	Mus musc	11245.43	355.5367	406.3305
chr9	30959	BC024852	Ddx25	Mus musc	7069.314	219.8545	346.3315
chr1	210933	BC099951	Bai3	Mus musc	6250.458	262.8975	306.3755
chr14	72661	AY425619	Serp2	Mus musc	4904.082	235.2496	240.7075
chr2	26877	BC094660	B3galt1	Mus musc	1899.406	77.6655	93.5495
chr11	15114	BC034089	Hap1	Mus musc	9531.591	420.1709	424.7835
chr17	240119	BC125586	St6gal2	Mus musc	5288.81	128.0651	262.0504
chr12	319504	AK039322	Nrcam	Mus musc	8030.234	276.5295	398.0264
chr7	210094	AK039193	Iglon5	Mus musc	8333.994	285.8335	413.734
chr4	12801	BC070447	Cnr1	Mus musc	5727.962	154.2995	284.46
chr4	73094	AK032439	Sgip1	Mus musc	2304.386	43.379	114.4935
chr2	20394	BC029021	Scg5	Mus musc	561.6695	11.1041	27.9158
chr12	319504	AY528242	Nrcam	alt 'Bravo#	1740.54	56.2592	86.5255
chr14	140743	BC018219	Rem2	Mus musc	899.5255	30.3618	44.7237
chr15	432939	XM_00147	Gm5468	PREDICT	129.7685	6.4594	5.7231
chrX	434784	BC052689	Ldoc1	Mus musc	696.8955	21.651	15.0785
chr2	N/A	AK048013	N/A	Mus musc	220.1086	10.9663	9.9136
chr5	245880	BC027038	Wasf3	Mus musc	4499.038	136.3215	224.1863
chr12	94090	NM_00111	Trim9	Mus musc	6098.068	112.6175	304.2122
chrX	19337	BC104390	Rab33a	Mus musc	4084.027	128.7135	203.8834
chr1	72792	AK013367	2810459M	Mus musc	588.6615	19.2657	29.4568
chr2	18549	BC057348	Pcsk2	Mus musc	1354.68	39.0385	67.8038
chr2	16492	BC109014	Kcna4	Mus musc	364.3575	15.2452	18.2397
chr2	170738	BC148599	Kcnh7	Synthetic	312.7815	15.7213	12.7458
chr6	20355	BC094567	Sema4f	Mus musc	3668.022	169.3375	184.7875
chr11	276952	AK045997	Rasl10b	Mus musc	10934.36	549.2955	551.0815
chr3	66059	BC043030	Krtcap2	Mus musc	514.7275	25.9861	25.8041
chr15	207393	BC076582	Elfn2	Mus musc	1709.64	60.421	86.5683
chr7	319752	AK045535	B230209E	Mus musc	253.0875	7.3853	12.8412
chr7	233878	BC011475	Sez6l2	Mus musc	9642.596	490.0715	339.3295
chr18	17202	BC116957	Mc4r	Mus musc	1319.92	45.5748	67.1318
chr11	237868	BC058534	Sarm1	Mus musc	7639.324	388.6604	374.2916
chr17	210573	BC079879	Tmem151k	Mus musc	7045.5	277.9798	358.5675
chr7	13446	BC055768	Doc2a	Mus musc	1833.547	93.3415	79.9335
chr1	N/A	AK142161	N/A	Mus musc	188.9795	9.6457	8.9019
chr1	226518	BC089007	Nmnat2	Mus musc	11643.92	527.0235	545.5295
chr2	108832	AK043999	5430405G	Mus musc	1281.152	65.7019	41.6
chr1	14545	BC048177	Gdap1	Mus musc	1518.318	17.3055	34.1303
chr2	12298	AK038633	Cacnb4	Mus musc	1320.228	44.4236	67.9001
chr6	76156	AK018325	Fam131b	Mus musc	1796.722	92.5415	69.3857
chr1	17756	AK162828	Mtap2	Mus musc	23167.82	1063.852	1196.61
chr4	73094	BC026497	Sgip1	Mus musc	2483.048	52.114	128.2515

chr7	232975	BC037206	Atp1a3	Mus musc	32123.07	444.3715	302.9315
chr12	320772	AK038962	Mdga2	Mus musc	644.2336	33.2845	17.0573
chr14	50787	BC117529	Hs6st3	Mus musc	3259.472	107.2935	168.7115
chr6	21333	BC119122	Tac1	Mus musc	1502.21	32.9423	77.8115
chr4	73094	AK043018	Sgip1	Mus musc	2079.532	55.3249	107.8415
chr14	219149	AY534252	Xkr6	Mus musc	3320.815	128.1075	172.3615
chr18	108013	AF515450	Bruno14	Mus musc	6239.014	210.3335	252.0269
chr4	272031	BC096762	E130309F	Mus musc	10464.95	416.4355	544.4515
chr4	12801	BC079564	Cnr1	Mus musc	4045.988	119.0315	210.5735
chr8	211323	AK052414	Nrg1	Mus musc	189.1967	9.848	9.8195
chr11	237716	AK141614	Gpr75	Mus musc	477.9582	17.4383	24.9458
chr2	329385	AK147796	C130021I2	Mus musc	6982.668	318.927	365.2062
chr12	72258	AK031904	Kcnk10	Mus musc	1155.47	26.8715	37.6003
chr15	23934	BC028758	Ly6h	Mus musc	3103.257	146.1496	162.4795
chrX	67062	BC152775	Mcart6	Synthetic	256.5815	12.4126	13.4479
chr1	241201	AK042657	Cdh7	Mus musc	1057.661	41.7733	50.643
chr15	320873	AF183946	Cdh10	Mus musc	5634.412	201.5615	296.4231
chr2	252864	BC116841	Dusp15	Mus musc	916.5955	34.832	47.7601
chr10	19279	AF129509	Ptprr	Mus musc	3777.293	105.7875	199.3815
chr2	N/A	AK039132	N/A	Mus musc	1187.126	50.3665	62.6801
chr4	15444	BC058588	Hpca	Mus musc	7641.662	405.3555	387.6781
chr14	18530	BC052388	Pcdh8	Mus musc	569.8635	30.2566	9.4804
chr5	242915	BC060268	Fam59b	Mus musc	2137.636	114.0195	63.1122
chr10	13516	BC012695	Epyc	Mus musc	753.218	38.3226	40.1771
chr2	26877	BC132246	B3galt1	Mus musc	4604.522	226.9871	245.7415
chr1	116837	AK090169	Rims1	Mus musc	129.7358	6.2599	6.7325
chr13	76980	BC116979	3110006E	Mus musc	1016.411	28.0918	28.7156
chr10	19279	BC119230	Ptprr	Mus musc	3849.764	118.3615	205.7415
chr2	320846	AK043120	A530058N	Mus musc	521.1455	27.8564	9.1538
chr13	94191	AK046083	Adarb2	Mus musc	594.1455	8.1149	31.7661
chrX	102954	BC055771	Nudt10	Mus musc	481.669	24.1041	25.8041
chr5	242819	BC058808	Rundc3b	Mus musc	3520.262	146.2375	188.7147
chr2	241568	AK034276	Lrrc4c	Mus musc	4425.458	237.2515	228.0315
chr6	16508	BC079667	Kcnd2	Mus musc	2428.072	130.4315	85.6095
chr11	18164	BC093479	Nptx1	Mus musc	7811.609	257.2947	420.6515
chrX	74264	NR_00364	170004511	Mus musc	201.2442	10.8615	8.3457
chr14	211712	BC060736	Pcdh9	Mus musc	5906.488	243.0475	318.8195
chr12	70127	AK039011	Dpf3	Mus musc	1508.554	81.6495	34.5814
chr14	211712	AY861424	Pcdh9	alt '15000	5762.672	266.1175	311.9655
chr11	17762	M18776	Mapt	Mouse tau	35799.42	1400.436	1253.89
chr3	20713	BC006776	Serpini1	Mus musc	8377.249	368.6954	454.4315
chr16	16522	BC120794	Kcnj6	Mus musc	1363.161	73.9835	45.939
chr5	243328	BC025599	Slc29a4	Mus musc	850.0144	38.6495	46.1889
chr10	77531	AK132228	Anks1b	Mus musc	8114.811	380.3015	441.4795
chr7	12310	BC028771	Calca	Mus musc	222.2715	8.4493	9.1039
chr2	319317	BC049241	Snhg11	Mus musc	4515.051	246.075	159.9515
chr2	54422	AF264026	Barhl1	Mus musc	697.553	38.2069	14.7793
chr12	268595	AK081193	D430019H	Mus musc	1816.514	74.4115	99.8715
chr15	116838	AK083172	Rims2	Mus musc	375.5855	20.6585	11.9905
chr8	18168	BC116976	Npy5r	Mus musc	312.6775	11.509	12.6942
chr2	241764	BC116639	L3mbtl	Mus musc	427.1835	23.531	15.0785
chr12	17182	BC071224	Matn3	Mus musc	133.4804	6.3746	7.3774
chr3	64378	BC051941	Gpr88	Mus musc	1050.33	36.4226	58.2939

chr1	N/A	AK138296	N/A	Mus musc	259.8195	12.8825	14.4486
chr6	232333	AK047663	Slc6a1	Mus musc	1373.854	43.0297	43.2552
chr4	73094	BC017596	Sgip1	Mus musc	2288.12	72.6089	128.0535
chr11	16669	BC034561	Krt19	Mus musc	5064.524	228.2455	259.8715
chr15	432939	AK139483	Gm5468	Mus musc	718.4795	17.9346	40.2896
chr3	N/A	AK177718	N/A	Mus musc	3380.077	114.2655	189.7355
chr12	18191	AK149250	Nrxn3	Mus musc	515.4806	16.5537	27.5297
chr5	13839	AK089143	Epha5	Mus musc	2581.682	70.8836	145.2735
chr7	14170	BC021328	Fgf15	Mus musc	391.0391	7.8162	8.2934
chr8	N/A	AK137304	N/A	Mus musc	641.082	36.2043	26.8804
chr15	320865	NM_00108	Cdh18	Mus musc	1113.722	34.1421	62.9423
chr9	15379	AK051235	Onecut1	Mus musc	312.2435	17.7146	14.2441
chr15	19132	AK149021	Prph	Mus musc	431.6135	16.2758	24.5031
chr10	77531	AK049899	Anks1b	Mus musc	8004.935	422.1495	454.5635
chr7	57780	BC061101	Fxyd7	Mus musc	4683.85	161.2875	192.2435
chr5	26414	AK082242	Mapk10	Mus musc	264.3268	15.0785	12.668
chr8	54126	AK129064	Arhgef7	Mus musc	6255.39	243.9415	357.1548
chr5	16873	BC057585	Lhx5	Mus musc	1323.606	44.1471	62.8403
chr17	224997	AK161941	Dlgap1	Mus musc	3658.595	209.3612	171.1855
chr10	27204	AK043854	Syn3	Mus musc	1385.823	66.4839	79.6155
chr7	320210	AK081136	A230077H	Mus musc	305.7915	7.5568	17.607
chr13	218440	BC119312	Ankrd34b	Mus musc	586.7582	20.9961	19.5333
chr4	215627	BC023839	Zbtb8b	Mus musc	1313.045	50.7728	75.7995
chr15	22045	BC109005	Trhr	Mus musc	125.5415	6.6255	7.2473
chr3	208426	BC107305	lqcj	Mus musc	476.4899	27.5235	18.5743
chr11	237716	BC125614	Gpr75	Mus musc	1106.268	56.7259	64.0381
chr3	11444	BC065103	Chrn2	Mus musc	6245.526	363.1135	197.2475
chr16	14805	AK044420	Grik1	Mus musc	2678.124	155.8156	104.6835
chr14	219149	BC024502	Xkr6	Mus musc	3487.094	168.1395	203.4247
chr8	14681	AK160434	Gnao1	Mus musc	3122.836	182.6695	138.7755
chr10	380669	BC089037	Lin28b	Mus musc	1498.008	73.6035	87.6735
chr17	18189	AK037724	Nrxn1	Mus musc	151.0555	5.9251	8.8429
chr1	16560	NM_00111	Kif1a	Mus musc	8158.841	272.4155	477.6475
chr9	244682	AK162856	Cntn5	Mus musc	1837.016	27.9533	67.3818
chr2	99296	BC132201	Hrh3	Mus musc	273.9677	11.999	16.0864
chr5	26875	Y19185	Pclo	Mus musc	2842.818	165.6555	167.0129
chr3	78784	AK019578	Tnrc4	Mus musc	2445.006	107.1495	133.1315
chr4	56710	BC048789	Dbc1	Mus musc	106.9615	5.8564	6.3023
chr10	103098	AY149281	Slc6a15	Mus musc	2023.118	68.1617	119.2495
chr8	319555	AK038792	Nwd1	Mus musc	1073.49	63.2902	62.6164
chr18	319609	AK083197	9330132A	Mus musc	1260.514	34.49	74.4051
chr10	14806	D10054	Grik2	Mus musc	3549.33	105.6739	209.6915
chr14	12891	BC051994	Cpne6	Mus musc	552.7355	31.2559	32.6718
chr19	226025	AK142504	Trpm3	Mus musc	889.7795	41.9852	45.531
chr12	319504	AK122252	Nrcam	Mus musc	4074.928	170.9515	240.9475
chr11	14654	S73718	Gla1	alt 'B2303	2083.718	74.6075	63.5923
chr5	26875	AB083477	Pclo	Mus musc	318.9775	6.3672	18.9684
chr10	56533	AK045770	Rgs17	Mus musc	1852.592	39.6324	66.4039
chr9	108068	BC115866	Grm2	Mus musc	825.3715	32.5218	24.8781
chr19	240590	BC052041	Dmrt3	Mus musc	111.7815	6.0789	5.9477
chr4	242667	BC057615	Dlgap3	Mus musc	1598.87	68.6037	95.6015
chr4	242748	BC070441	Ptchd2	Mus musc	580.6118	15.2677	21.2928
chr15	70363	BC125645	Fam135b	Mus musc	267.3508	13.7811	16.0166

chr16	207227	AY542324	Stxbp5l	alt '943009	587.0915	12.5664	35.2091
chr2	94229	AK220501	Slc4a10	Mus musc	261.8302	10.8388	15.7213
chr4	329942	AK140129	Csmd2	Mus musc	293.7655	12.6394	16.3725
chr12	20605	BC140315	Sstr1	Synthetic	1676.634	73.0621	100.7955
chr9	244682	XM_97486	Cntn5	PREDICT	1785.186	50.9983	107.4755
chrX	245578	AJ564976	Pcdh11x	Mus musc	2378.09	143.5775	125.0817
chr15	320873	BC055808	Cdh10	Mus musc	795.2609	44.6528	48.0944
chr15	12805	AK004399	Cntn1	Mus musc	2245.262	64.4681	136.2255
chr4	73094	AB262964	Sgip1	Mus musc	7184.611	263.2835	436.7535
chr13	20745	AK039058	Spock1	Mus musc	421.9515	11.3816	11.6713
chr11	18197	AK041338	Nsg2	Mus musc	926.4615	28.5816	56.3312
chr18	71263	BC141520	Mro	Synthetic	410.8729	24.99	25.0405
chr11	1E+08	XM_00147	Gm2138	PREDICT	419.9205	25.7397	12.0027
chr11	268510	BC094604	Mgat5b	Mus musc	1900.708	75.0175	116.6255
chr6	70593	AK031498	5730457N	Mus musc	158.5805	8.8072	7.3308
chr3	22253	AK142974	Unc5c	Mus musc	1536.578	44.1829	94.6135
chr11	68127	AK080808	B230217C	Mus musc	3560.546	209.0835	219.8835
chr9	235604	BC017634	Camkv	Mus musc	1683.507	70.3352	77.1855
chr7	29861	BC052348	Dpf1	Mus musc	5864.824	327.2215	362.4684
chr14	320249	XM_00148	D13000911	PREDICT	147.0435	7.4519	9.1146
chr3	18211	XM_28387	Ntrk1	PREDICT	1022.568	63.4024	55.2081
chr7	20167	AK165915	Rtn2	Mus musc	177.1327	10.0308	10.9869
chr8	319555	BC145703	Nwd1	Mus musc	928.2275	57.6763	56.9008
chr1	16524	U11860	Kcnj9	Mus musc	628.9755	39.1489	24.0676
chr15	N/A	BC048859	N/A	Mus musc	878.8675	30.726	39.2728
chr9	320429	AK079552	Trank1	Mus musc	871.8915	54.4869	44.0596
chr4	16975	BC127061	Lrp8	Mus musc	11960.02	676.4055	747.5301
chr7	11864	AB093225	Arnt2	Mus musc	7844.898	374.8335	492.2195
chr1	329178	AK081235	Unc80	Mus musc	205.5955	12.9358	8.1663
chr6	18231	XM_00147	Nxph1	PREDICT	1175.208	42.3736	58.8556
chr8	74561	XM_48609	Nkx6-3	PREDICT	456.5215	28.7512	13.332
chr8	210801	BC145695	Unc5d	Mus musc	2154.932	85.6935	136.5658
chr12	238276	NM_00110	Akap5	Mus musc	1240.522	73.5073	60.5869
chr1	72792	XM_48489	2810459M	PREDICT	354.5915	11.4981	22.5076
chr7	319752	XM_48918	B230209E	PREDICT	435.7775	18.7259	24.3597
chr17	224997	AK016873	Dlgap1	Mus musc	3408.896	216.4646	211.5935
chr8	211323	AY648976	Nrg1	alt '603040	3069.55	131.4095	195.2797
chrX	60367	BC119274	Il1rapl2	Mus musc	616.8315	20.9676	27.4262
chr15	406218	DQ093579	Panx2	Mus musc	1619.389	103.2695	63.3508
chr11	216739	AK039380	Acsl6	Mus musc	1355.964	33.1335	66.1939
chr15	70363	BC119174	Fam135b	Mus musc	1186.146	42.1774	75.6693
chr4	140477	AF499446	Dmbx1	Mus musc	360.6235	23.0162	19.7327
chr6	20449	BC024821	St8sia1	Mus musc	1862.186	18.1445	30.0178
chr7	243961	XM_00147	Shank1	PREDICT	3510.252	152.7511	119.4015
chr8	406173	AK051321	D030068K	Mus musc	188.0435	12.0522	8.752
chr4	15569	AK149201	Elavl2	Mus musc	294.3015	18.9084	11.4039
chr2	433485	NM_00108	Tmem90b	Mus musc	4240.491	237.9855	272.5064
chr4	242748	AK078196	Ptchd2	Mus musc	1093.224	16.1049	70.4056
chr17	23969	AK158686	Pacsin1	Mus musc	1464.032	88.7841	94.2935
chr3	22253	BC115772	Unc5c	Mus musc	1840.418	84.6056	118.6455
chr11	211739	BC027127	Vstm2a	Mus musc	568.9615	11.1367	36.6887
chr10	17172	BC055748	Ascl1	Mus musc	2160.634	139.5415	105.0428
chr14	12891	BC050766	Cpne6	Mus musc	618.2735	34.5595	39.9306

chr3	56543	AK033962	Kcnd3	Mus musc	224.6935	14.513	13.2465
chr10	319586	AK083461	Brunol5	Mus musc	266.4715	16.658	14.307
chr1	13869	NM_01015	ErbB4	Mus musc	3508.444	188.922	227.2615
chr11	72605	AK038695	Car10	Mus musc	178.7635	8.2475	11.5893
chr10	268345	BC116289	Kcnc2	Mus musc	503.8249	28.1102	32.6956
chr2	228911	AK046877	Tshz2	Mus musc	1805.682	101.9715	117.3075
chr7	232975	BC034645	Atp1a3	Mus musc	29497.65	411.4035	337.2455
chr7	56216	BC132042	Stx1b	Mus musc	3503.493	227.9695	126.7675
chr7	1E+08	AK046418	LOC10004	Mus musc	315.9495	20.5629	7.6212
chr19	18190	AK147665	Nrxn2	Mus musc	5378.91	193.4995	350.1875
chr12	217843	AB257853	Unc79	Mus musc	3428.646	153.7895	176.5033
chrX	13193	NM_00111	Dcx	Mus musc	20224.6	952.7132	1321.508
chr12	320145	BC082582	Sp8	Mus musc	184.0815	10.7418	12.0444
chr17	240063	BC052046	Zfp811	Mus musc	5698.048	295.5195	374.0635
chr10	320495	AK220339	Ipcef1	Mus musc	271.5775	14.002	13.6683
chr10	19279	AF041866	Ptprr	Mus musc	2779.249	86.1275	183.2635
chr11	22671	AB013097	Rnf112	Mus musc	1872.07	72.8116	123.5615
chr5	104382	BC078444	Barhl2	Mus musc	561.7895	34.656	23.6457
chr1	226781	BC108419	Slc30a10	Mus musc	1896.876	116.1726	125.8955
chr3	14800	BC048248	Gria2	Mus musc	208.7915	5.8147	13.8833
chr3	22253	AK141181	Unc5c	Mus musc	4331.25	211.4215	289.1673
chr8	234624	AK036159	A330008L	Mus musc	159.7035	6.4313	8.3561
chr6	11941	AK051287	Atp2b2	Mus musc	207.2154	13.9277	10.5797
chr5	26875	AB083478	Pclo	Mus musc	3475.633	183.7027	233.7864
chr11	70357	AY171234	Kcnp1	Mus musc	173.6466	9.392	10.5373
chr2	26877	AK035215	B3galt1	Mus musc	1129.221	39.2011	76.0701
chr10	74694	AK015700	Tbc1d30	Mus musc	7337.334	388.4995	494.7455
chr15	24050	BC055738	Sept3	Mus musc	5405.568	69.5588	93.4995
chr3	76022	AK157887	Gon4l	Mus musc	4266.376	251.1235	269.0206
chr3	386750	AK139438	Slitrk3	Mus musc	2796.016	71.3316	188.9475
chr4	69329	BC058220	1700003M	Mus musc	213.8679	11.1664	14.4616
chrX	54561	BC020176	Nap1l3	Mus musc	5967.877	341.2675	405.1355
chr3	1E+08	XM_00147	Gm3759	PREDICTI	581.5028	39.513	28.982
chr2	75276	AK083940	Ppp1r1c	Mus musc	181.3465	12.3622	11.2748
chr2	18012	BC094611	Neurod1	Mus musc	914.7725	38.7146	45.939
chrX	76206	BC113184	Gpr165	Mus musc	1202.984	36.5636	82.0991
chr5	13048	AK140849	Cux2	Mus musc	5355.513	365.6982	357.6415
chr14	320249	AK051771	D13000911	Mus musc	125.7795	7.8993	8.3083
chr11	22671	BC013139	Rnf112	Mus musc	2082.57	103.1384	142.4035
chr16	73047	NM_02842	Camk2n2	Mus musc	6494.432	301.2139	444.7075
chr4	16975	NM_00108	Lrp8	Mus musc	1848.919	112.4507	126.7235
chr16	268890	AK140043	Lsamp	Mus musc	8315.37	264.7455	570.5635
chrX	57249	AK038859	Gabrq	Mus musc	452.1455	27.1403	31.0528
chr19	226025	AK161909	Trpm3	Mus musc	2249.752	110.7495	90.1375
chr10	74694	AK044521	Tbc1d30	Mus musc	6771.394	431.0356	465.1915
chr10	216439	BC156808	Agap2	Synthetic	975.0295	39.6274	36.4288
chr15	24050	AK030668	Sept3	Mus musc	1372.554	24.8391	14.765
chr9	108068	XM_00147	Grm2	PREDICTI	842.7202	52.567	32.0248
chr1	320705	BC057378	Bend6	Mus musc	1192.769	29.29	82.8015
chr3	1E+08	AK140446	Gm2464	Mus musc	446.7043	18.2778	17.8599
chr10	77531	AK038609	Anks1b	Mus musc	5515.074	274.5635	383.9455
chr6	211232	AK044080	Cpne9	Mus musc	306.3615	21.3336	18.6417
chrX	57249	BC119074	Gabrq	Mus musc	785.6435	27.7989	54.9903



chr3	18211	XM_89980	Ntrk1	PREDICT	978.0305	68.4857	56.9616
chr17	224997	AK147448	Dlgap1	Mus musc	7093.398	497.1317	408.6935
chr13	N/A	AK051417	N/A	Mus musc	240.0198	11.5417	16.8407
chr3	99633	BC156478	Lphn2	Synthetic	20233.86	1420.956	1422.224
chr10	215821	AK147963	D10Bwg13	Mus musc	1097.588	46.8011	77.1615
chr1	13869	AF059177	ErbB4	Mus musc	2905.968	182.2095	204.995
chr6	243621	AK122446	Iqsec3	Mus musc	4130.455	199.4615	291.6855
chrX	67564	BC042623	Tmem35	Mus musc	4983.58	241.0953	352.0615
chr17	106648	BC021377	Cyp4f15	Mus musc	152.0855	10.8208	9.6282
chr12	20741	S66283	Spnb1	Spnb-1=br	4140.853	295.0825	215.6735
chr8	330863	BC094596	Trim67	Mus musc	10366.9	739.522	116.0735
chr2	320846	AK045885	A530058N	Mus musc	463.1695	33.2702	11.584
chr7	84704	BC132082	Snurf	Mus musc	16990.64	1223.64	1126.37
chr1	16565	AF202893	Kif21b	Mus musc	4513.997	270.3795	325.1318
chr4	16975	AK030143	Lrp8	Mus musc	4458.152	253.5275	321.4435
chr4	15444	AK002992	Hpca	Mus musc	3027.409	218.5703	211.4315
chr14	319984	AK148135	Jph4	Mus musc	9265.402	395.1215	669.8191
chr14	239157	AK043718	Pnma2	Mus musc	1918.72	62.0641	139.3255
chr5	77521	AK021162	C130038G	Mus musc	1261.735	38.1223	91.6795
chr7	20646	BC019589	Snrpn	Mus musc	17136.39	1227.358	1245.6
chr15	12805	BC066864	Cntn1	Mus musc	9449.24	553.5953	688.0655
chr13	110789	AF405692	Gpr98	Mus musc	218.9715	14.989	15.9449
chrX	14829	BC113145	Grpr	Mus musc	745.5175	23.3229	54.2961
chr4	13841	AK049848	Epha7	Mus musc	820.3699	26.1532	59.8472
chr8	73072	BC068157	BC068157	Mus musc	3381.812	210.9935	247.4275
chr11	70357	DQ148494	Kcnip1	alt '29000	466.2809	25.7614	34.1222
chr12	238276	XM_13806	Akap5	PREDICT	860.2944	63.0303	35.7396
chr2	329385	AK081497	C130021I2	Mus musc	1790.518	70.8819	131.3535
chr19	226025	AK169968	Trpm3	Mus musc	924.2015	28.7984	39.6356
chrX	13193	AK048410	Dcx	Mus musc	206.7875	10.9851	15.2213
chr18	225655	BC019561	Slmo1	Mus musc	3087.994	149.5203	227.3334
chrX	20977	BC014823	Syp	Mus musc	17190.44	1265.822	918.5488
chr9	81907	AK132350	Tmem108	Mus musc	1940.052	142.9865	108.2835
chr13	319874	AK046023	C630013B	Mus musc	209.5029	12.4595	9.7406
chr1	170788	AF492496	Crb1	Mus musc	83.3215	5.8686	6.1545
chr8	244431	AK048960	Sgcz	Mus musc	631.9875	46.6995	33.503
chr6	14804	BC139823	Grid2	Mus musc	1637.646	107.7545	121.1375
chr12	666915	XM_99478	Gm8360	PREDICT	196.2935	9.0515	14.6113
chr6	21333	M68909	Tac1	Mus musc	4491.954	142.0736	335.6415
chr10	N/A	AF123611	N/A	Mus musc	8313.35	479.1875	591.8515
chr17	224997	AK035763	Dlgap1	Mus musc	3569.582	266.9555	262.8735
chrX	67564	BC050880	Tmem35	Mus musc	5072.152	241.7955	379.4635
chr4	16975	D85463	Lrp8	Mus musc	11446.16	745.5595	858.5019
chr10	11994	DQ354398	Pcdh15	Mus musc	416.5019	31.2529	23.4645
chr4	242506	BC037727	Frmd3	Mus musc	239.3475	17.9915	11.4294
chr5	65254	AK044866	Dpysl5	Mus musc	16025.33	915.9175	1204.666
chr12	636791	AK163447	Gm9866	Mus musc	238.7391	15.3082	17.953
chr7	1E+08	XM_00147	Gm3094	PREDICT	7031.162	528.8054	33.8966
chr9	29873	AK053891	Cspg5	Mus musc	410.6253	25.9505	30.8862
chr5	65254	BC065054	Dpysl5	Mus musc	16228.61	957.232	1223.796
chr4	269610	AK046510	Chd5	Mus musc	4341.796	327.4295	321.8135
chr7	11803	BC021877	Aplp1	Mus musc	12820.21	619.4195	967.2295
chr9	76898	BC023052	B3gat1	Mus musc	1622.519	99.5395	67.1038

chr7	N/A	AK043814	N/A	Mus musc	318.5193	18.6899	24.0697
chr9	29873	AF461091	Cspg5	Mus musc	15116.88	1142.714	1124.806
chr5	50791	NM_01582	Magi2	Mus musc	949.0301	71.8016	55.3533
chr7	76484	AK169316	Kndc1	Mus musc	628.8395	16.8555	47.5782
chr19	225998	BC024842	Rorb	Mus musc	1492.914	112.9575	100.3695
chr8	N/A	AK042944	N/A	Mus musc	2721.427	206.3615	40.7067
chr1	320705	AK044633	Bend6	Mus musc	1980.64	58.0421	150.2075
chr16	50525	AK164680	Spag6	Mus musc	124.5064	9.4448	7.2551
chr13	20418	BC103611	Shc3	Mus musc	1632.344	44.6581	123.9695
chr18	246317	BC051145	Neto1	Mus musc	4078.828	309.7715	198.5295
chr13	1E+08	XM_00147	Gm3826	PREDICT	1572.53	119.5575	112.6319
chr13	20418	BC105644	Shc3	Mus musc	2877.304	173.5795	218.9542
chr17	214931	BC132383	Fbxl16	Mus musc	1903.534	117.76	145.0215
chr8	270097	BC056927	Vat1l	Mus musc	7258.148	249.4135	552.9915
chr15	320679	AK080536	Samd12	Mus musc	1501.294	95.4535	114.4135
chr12	268595	BC078436	D430019H	Mus musc	4948.776	292.2183	377.5215
chrX	93843	AK134665	Pnck	Mus musc	4653.936	321.4915	355.9115
chr16	17968	AF001287	Ncam2	Mus musc	1353.824	59.79	103.5975
chr9	320563	AK129367	Islr2	Mus musc	1636.232	125.3373	118.1891
chr12	319504	AK214713	Nrcam	Mus musc	4045.825	217.2395	310.2799
chr2	78774	BC024760	4930529M	Mus musc	235.9795	10.0957	18.1275
chr9	235106	AF282980	Ntm	Mus musc	12260.89	746.8175	942.4215
chr2	16536	BC156315	Kcnq2	Synthetic	1218.594	58.5651	41.2152
chr8	234290	BC030500	BC030500	Mus musc	1871.368	73.9095	51.0624
chr3	12032	NM_00110	Bcan	Mus musc	2295.743	177.1655	162.7375
chr2	228911	AK161999	Tshz2	Mus musc	1799.518	134.1975	139.2235
chr8	94109	AK048698	Csmd1	Mus musc	275.8595	15.9597	15.4198
chrX	245578	AY861426	Pcdh11x	alt 'A2300	2223.69	133.8435	172.0775
chr17	73242	AK014265	2610110G	Mus musc	13064.07	1011.268	858.9552
chr6	243373	AK039299	Al854703	Mus musc	2012.584	80.6842	83.8775
chr6	108073	AK053447	Grm7	Mus musc	89.9694	5.7245	6.0438
chr7	27489	U80893	D0Kist6	Mus musc	129.9615	6.3824	7.796
chr8	244310	AK082945	Dlgap2	Mus musc	766.3057	59.7302	40.4339
chr6	14788	AK171145	Gpr162	Mus musc	9700.502	590.2755	756.7295
chr9	114873	AK161365	Dscaml1	Mus musc	518.9055	40.6059	37.6003
chr3	242274	AK122498	Lrrc7	Mus musc	178.7802	14.0367	8.7535
chr1	16565	BC156377	Kif21b	Synthetic	11627	857.3715	913.7804
chr4	56296	AK161436	Dmrtb1	Mus musc	360.8495	19.1114	28.3743
chr2	94229	BC039226	Slc4a10	Mus musc	519.5375	13.1764	12.3309
chr15	106014	BC015306	Fam19a5	Mus musc	1694.114	114.7695	133.7026
chr6	18231	BC145953	Nxph1	Mus musc	7842.298	517.9947	619.0055
chrX	272790	BC132640	Magee2	Mus musc	577.4203	22.7389	45.5828
chr6	69938	BC023889	Scrn1	Mus musc	7905.194	624.3555	563.2935
chr2	16917	BC119169	Lmx1b	Mus musc	1375.87	96.3835	108.7282
chr4	329942	AK220272	Csmd2	Mus musc	578.6795	26.2784	30.6568
chr4	76376	BC115867	Slc24a2	Mus musc	207.0635	11.5876	16.4257
chr3	386750	BC066059	Slitrk3	Mus musc	4536.945	186.21	362.2695
chr12	73991	BC050784	Atl1	Mus musc	9669.054	705.1335	772.8855
chr3	70762	AY968049	Dclk2	Mus musc	5951.02	291.6084	475.7384
chr9	20255	AK158315	Scg3	Mus musc	6260.95	53.2244	137.0702
chrX	109904	BC125435	Mcf2	Mus musc	172.4467	8.6429	13.8105
chr16	665562	XM_98391	Gm7689	PREDICT	141.1895	7.026	11.3133
chr15	20273	AF049617	Scn8a	Mus musc	1891.286	117.5635	151.5535



chr2	18508	AF443223	Pax6	alt '15000	784.4275	8.3296	8.5267
chr7	14402	BC148598	Gabrb3	Synthetic	10824.44	523.2775	869.0075
chr11	N/A	BC133667	N/A	Mus musc	177.8303	7.359	14.1975
chr17	71685	BC117800	Galnt14	Mus musc	2780.63	211.6015	224.5705
chrX	60367	AJ277831	Il1rapl2	Mus musc	452.4155	20.6109	36.5636
chr8	14681	AK047197	Gnao1	Mus musc	17777.08	1437.708	1343.862
chr4	73332	AK163185	Ccdc30	Mus musc	962.4255	77.8715	66.6278
chr2	241308	AK129123	Ralgps1	Mus musc	4347.616	339.1716	351.8155
chr4	230735	AK134673	Epha10	Mus musc	645.1195	17.8447	21.0999
chr3	319830	BC094555	1500004A	Mus musc	2257.35	128.7324	183.2635
chr6	18231	AK139424	Nxph1	Mus musc	428.2175	24.7475	34.8842
chr5	1E+08	XM_00147	Gm3080	PREDICT	7743.36	209.7115	204.0495
chr3	12032	AK161874	Bcan	Mus musc	1504.532	123.0835	88.6295
chr7	N/A	XM_00148	N/A	PREDICT	214.9715	11.0281	12.4722
chr11	15416	AK131612	Hoxb8	Mus musc	13718.38	778.3895	1122.982
chr8	234857	BC026502	Spire2	Mus musc	7205.67	448.3236	590.4295
chr7	116811	AF365932	Zim3	Mus musc	1885.382	104.2155	154.5335
chr13	94253	AK053694	Hecw1	Mus musc	102.3575	8.3973	8.1926
chr19	15566	AK139197	Htr7	Mus musc	2542.189	107.4628	208.5835
chr18	225631	BC103668	Onecut2	Mus musc	675.2718	55.4539	23.4117
chr5	231014	AK165601	9330182LC	Mus musc	72.2946	4.9526	5.9371
chr9	15571	AK090281	Elavl3	Mus musc	402.0875	33.0413	11.6149
chr12	73991	AK015327	Atl1	Mus musc	6120.21	432.2375	503.5795
chr5	269629	AK020916	Lhfp13	Mus musc	2463.22	125.4375	202.6795
chr7	232975	AK053751	Atp1a3	Mus musc	145.6675	9.0462	11.841
chr7	1E+08	XM_00147	LOC10004	PREDICT	127.4035	7.5434	10.5131
chr6	20527	BC034122	Slc2a3	Mus musc	3277.32	247.7775	270.5748
chr2	209630	AK082365	Frmd4a	Mus musc	6444.11	515.2235	532.0575
chr9	235106	BC023307	Ntm	Mus musc	2801.402	132.0495	231.5575
chr11	207777	BC066146	Bzrap1	Mus musc	1388.29	69.0737	114.8015
chr1	23836	BC119606	Cdh20	Mus musc	209.3235	14.2162	17.3123
chr16	239789	BC086669	Gm606	Mus musc	190.7495	7.4755	6.7599
chr2	241263	BC141527	Gpr158	Synthetic	300.6315	25.1034	16.759
chr16	73047	XM_99080	Camk2n2	PREDICT	4924.095	299.8155	411.2655
chr6	14823	BC051384	Grm8	Mus musc	154.1555	8.7731	8.9784
chr10	216439	AK220325	Agap2	Mus musc	3836.125	320.8653	303.5955
chr1	329178	AK173273	Unc80	Mus musc	157.2731	9.319	8.4379
chr7	75770	AK173268	Brsk2	Mus musc	3515.239	198.7768	187.4035
chr2	381359	XM_35532	Prdm12	PREDICT	211.1936	11.6169	16.8736
chr3	70762	AK049126	Dclk2	Mus musc	6573.806	382.531	552.1175
chr8	210027	AK083105	Slc35f3	Mus musc	181.5981	14.4665	15.2597
chr6	53870	BC076594	Cntn6	Mus musc	3105.858	163.5195	261.2485
chr4	N/A	AK038580	N/A	Mus musc	8696.846	700.0395	731.7955
chr11	74309	BC058602	Osbp2	Mus musc	1945.428	79.4715	91.3455
chr10	77531	XM_00100	Anks1b	PREDICT	357.4175	30.1868	18.3451
chr1	77629	AK019735	Sphkap	Mus musc	1595.264	96.7855	134.7695
chr2	18232	BC106863	Nxph2	Mus musc	124.1995	6.6137	10.5094
chr7	N/A	AK140221	N/A	Mus musc	322.0075	16.2503	19.7109
chr3	20257	AK043202	Stmn2	Mus musc	253.5766	9.8646	21.5512
chr11	12569	AK039999	Cdk5r1	Mus musc	12213.87	647.4475	1040.483
chr5	231014	BC132290	9330182LC	Mus musc	1536.375	51.3515	130.9575
chr7	57775	BC146299	Usp29	Synthetic	3046.886	128.5155	260.1295
chr4	N/A	XM_00147	N/A	PREDICT	357.3575	20.146	28.3531

chr8	270109	AK043903	Pcnx12	Mus musc	303.1215	25.9988	9.4193
chr14	72661	BC100483	Serp2	Mus musc	4895.263	419.9987	388.7635
chr16	22268	BC046604	Upk1b	Mus musc	4531.832	237.7575	388.9315
chr12	N/A	AK043502	N/A	Mus musc	131.7695	11.3097	9.1328
chr15	106014	AK090194	Fam19a5	Mus musc	2201.394	174.4755	189.1155
chr8	18997	BC156470	Pou4f2	Synthetic	809.4421	26.4501	55.0429
chr2	12298	BC026479	Cacnb4	Mus musc	3296.71	283.7095	233.6635
chr14	16840	BC045152	Lect1	Mus musc	1651.952	107.9755	118.7555
chr14	72661	XM_89456	Serp2	PREDICT	4055.499	349.2581	340.7375
chr9	19649	XM_00147	Robo3	PREDICT	575.5801	49.6351	31.8778
chr9	67968	BC062245	Ooep	Mus musc	427.4732	26.0491	36.8659
chrX	279561	XM_90958	Wnk3	PREDICT	1627.218	98.3467	140.3835
chr4	1E+08	XM_00147	Gm3762	PREDICT	223.2595	15.8482	19.27
chr6	18231	AK163438	Nxph1	Mus musc	6828.786	354.3135	591.9335
chrX	272790	BC094361	Magee2	Mus musc	2048.032	68.4317	178.6075
chr1	170771	AK051938	Khdrbs2	Mus musc	218.8495	8.8274	19.0936
chr3	78784	BC057553	Tnrc4	Mus musc	928.0775	70.4836	81.2593
chr5	19085	BC011424	Prkar1b	Mus musc	8408.65	486.5575	737.3095
chr7	101694	AK032343	AI854517	Mus musc	774.8254	67.9697	24.7227
chr11	68127	AK035650	B230217C	Mus musc	489.7455	30.271	20.6232
chr2	381405	AK141109	Gm1008	Mus musc	1469.684	96.8095	129.2075
chr15	239618	AK135524	Pdzrn4	Mus musc	4490.829	188.951	279.2515
chr19	20510	BC065099	Slc1a1	Mus musc	1926.8	86.982	143.3415
chr9	235180	BC029629	Fez1	Mus musc	9786.236	541.6123	862.5535
chr7	233879	BC111101	Asphd1	Mus musc	891.6555	33.9624	41.0351
chrX	74264	BC125311	170004511	Mus musc	186.0231	9.1375	16.4413
chr11	432530	BC156505	Adcy1	Synthetic	3756.222	286.4435	332.4195
chr5	14397	BC094603	Gabra4	Mus musc	1906.323	57.1397	168.8415
chr15	76505	XM_90168	1500009C	PREDICT	147.8631	10.2891	13.0982
chr10	N/A	AK139076	N/A	Mus musc	111.0972	9.8707	8.6323
chrX	211612	BC116312	Ptchd1	Mus musc	903.5802	48.2906	80.3835
chr7	108071	AK136840	Grm5	Mus musc	80.0064	5.4726	7.121
chr7	1E+08	XM_00147	Gm3079	PREDICT	4554.636	405.8509	28.5516
chr12	18511	BC005794	Pax9	Mus musc	263.2155	20.3394	23.4835
chr2	241727	BC117897	Snph	Mus musc	1710.711	59.6312	63.1718
chr18	12405	AK042555	Cbln2	Mus musc	10859.3	972.0755	745.8511
chr15	18163	AK140960	Ctnnd2	Mus musc	5936.192	382.4595	475.8218
chr4	12840	BC029697	Col9a2	Mus musc	1721.454	123.3695	154.1715
chr11	140723	BC120894	Cacng5	Mus musc	783.0095	70.2176	27.1886
chr2	241324	BC043114	Crb2	Mus musc	359.6265	26.9459	32.5015
chr5	26875	NM_00111	Pclo	Mus musc	1158.036	104.7595	84.5695
chr4	73332	AK225009	Ccdc30	Mus musc	319.2501	26.7168	28.9005
chr1	319998	AK038957	Tmem198	Mus musc	1459.635	127.4555	132.1511
chr16	268890	AK086355	Lsamp	Mus musc	8107.037	309.1007	734.1635
chr14	75288	AK046093	Slc35f4	Mus musc	428.3535	24.1765	30.3588
chr18	383348	BC049734	Kctd16	Mus musc	182.5619	13.0398	16.5743
chr4	78933	NM_03023	Agbl4	Mus musc	146.0919	7.6101	13.3149
chr11	432530	BC050125	Adcy1	Mus musc	2680.83	142.1815	244.4435
chr7	243961	AK082624	Shank1	Mus musc	2208.936	201.5066	173.3826
chr14	218763	BC019794	Lrrc3b	Mus musc	2124.95	194.5855	190.2129
chr14	93688	BC094584	Kihl1	Mus musc	440.6435	17.9244	40.4676
chrX	93843	AK158755	Pnck	Mus musc	3505.803	276.8908	322.9015
chr6	20527	BC058811	Slc2a3	Mus musc	6965.122	643.4815	618.7955



chr15	106026	AK140580	AW121686	Mus musc	351.4535	21.4568	32.4746
chr4	242662	AK136831	Rims3	Mus musc	96.5255	6.4682	7.6077
chr17	407788	AK133031	BC051142	Mus musc	136.6708	10.063	12.6394
chr1	18993	BC156037	Pou3f3	Synthetic	984.3075	31.9508	86.7295
chr11	12569	BC046823	Cdk5r1	Mus musc	14104.69	863.2035	1307.246
chr5	N/A	AB294521	N/A	Mus musc	1498.44	128.2735	138.9029
chr13	12671	BC129892	Chrm3	Mus musc	871.3547	80.9595	48.2581
chr10	216028	BC113178	Lrrtm3	Mus musc	678.7432	30.5661	63.11
chr5	14397	AK139970	Gabra4	Mus musc	911.7755	32.5454	84.8255
chrX	102941	BC055780	B630019K	Mus musc	4493.938	343.8255	418.1695
chr2	791417	AY512942	Gm14164	Mus musc	104.7315	9.7776	7.2657
chr2	17957	AK048037	Napb	Mus musc	2247.834	132.9115	210.0835
chr2	17957	BC038362	Napb	Mus musc	7594.722	542.2652	711.2115
chr2	214240	AK035975	Disp2	Mus musc	393.8355	36.8875	18.3646
chr15	271278	AK078032	BC024139	Mus musc	392.9555	23.3796	36.8799
chr3	70762	AK049179	Dcl2	Mus musc	5035.482	310.2004	472.8715
chr4	67149	BC116391	Nkain1	Mus musc	9892.586	832.9835	930.9955
chr3	78784	AK087536	Tnrc4	Mus musc	3002.668	123.8384	119.3775
chr5	330149	XM_98705	Hfm1	PREDICT	211.2055	13.9482	19.8861
chrX	18994	BC145919	Pou3f4	Mus musc	1138.016	53.1236	107.3577
chr14	1E+08	XM_00147	Gm2990	PREDICT	80.2875	7.2188	5.753
chr1	320492	AK081222	A830018L	Mus musc	466.1235	44.0755	38.6
chr11	140723	AK032260	Cacng5	Mus musc	522.5399	27.6515	49.4642
chr15	29859	AK010293	Sult4a1	Mus musc	571.5675	49.6854	41.0728
chr7	70638	AK138167	Fam189a1	Mus musc	535.2863	24.4634	50.9663
chr11	70057	XM_00100	2210008F0	PREDICT	702.3867	40.0568	66.9538
chr1	214253	AY212244	Etnk2	Mus musc	887.8563	47.2058	84.6547
chr1	72585	AK012406	Lypd1	Mus musc	1968.484	104.5512	187.771
chr6	211187	BC058944	Lrtm2	Mus musc	750.5279	34.7503	63.8641
chr9	107934	AK129222	Celsr3	Mus musc	4268.953	309.8435	223.7375
chr5	52822	AK148795	Rufy3	Mus musc	19332.28	1319.692	1182.004
chr15	435145	XM_48704	AI848285	PREDICT	379.3255	17.8503	30.0869
chrX	320237	AK050814	Ncrna0008	Mus musc	186.8195	9.1277	17.8813
chr5	15563	BC115911	Htr5a	Mus musc	432.6415	20.4744	14.3434
chr4	67149	AK076029	Nkain1	Mus musc	17219.08	1649.44	1590.013
chr13	666856	XM_98649	Gm8327	PREDICT	4400.126	400.5675	422.9692
chr12	217951	XM_90137	Tmem196	PREDICT	693.3555	24.7701	66.6881
chr2	N/A	BC063091	N/A	Mus musc	3557.747	251.5155	342.2421
chr7	57776	BC046310	Ttyh1	Mus musc	10247.35	850.7215	986.0602
chr2	271786	BC131651	Galnt13	Mus musc	430.6775	27.3302	41.533
chr13	320557	AK173051	Fam169a	Mus musc	1979.138	124.6935	191.3035
chr8	71805	AK045380	Nup93	Mus musc	157.9475	15.2827	14.0786
chr12	26950	BC046226	Vsn1	Mus musc	1561.786	131.6735	151.1542
chr5	14357	BC053055	Dtx1	Mus musc	4275.094	245.7415	413.8235
chr2	228564	BC038623	Frmd5	Mus musc	3883.712	195.4195	313.1255
chr3	229521	BC054526	Syt11	Mus musc	8047.85	730.6795	780.2815
chr1	19736	BC003882	Rgs4	Mus musc	1851.36	155.2375	179.9695
chr4	269513	AK053823	Nkain3	Mus musc	3277.062	224.4015	213.9895
chr8	12286	AK052625	Cacna1a	Mus musc	2932.942	180.7755	240.1575
chr4	18507	BC156134	Pax5	Synthetic	304.2626	21.6514	29.7507
chr7	381979	BC086636	Brsk1	Mus musc	10383.84	693.1855	1017.166
chr14	22772	BC156493	Zic2	Synthetic	1995.984	69.4402	73.1954
chr15	12565	XM_98617	Cdh9	PREDICT	1370.052	78.3073	111.6995

chr3	18072	AK079121	Nhlh2	Mus musc	1092.172	43.2226	37.0117
chr15	105859	BC016109	Csdc2	Mus musc	4541.158	310.4864	445.0735
chr9	14802	AB022913	Gria4	Mus musc	2476.032	73.4615	243.1295
chr19	72514	BC055778	Fgfbp3	Mus musc	4653.357	457.9328	406.5495
chr17	620292	BC156346	Cntnap5c	Synthetic	103.3135	9.8083	10.1819
chr9	64290	BC111908	Foxb1	Mus musc	1250.302	73.7315	86.3615
chr7	110891	BC058704	Slc8a2	Mus musc	4939.724	423.279	486.9154
chr1	263764	BC116790	Creg2	Mus musc	1457.673	132.8847	143.7515
chr18	83814	AK031842	Nedd4l	Mus musc	1600.248	109.5015	158.1155
chr1	70375	AK029991	Ica1l	Mus musc	1808.77	146.2575	179.2242
chr7	N/A	AK086341	N/A	Mus musc	330.2595	32.7781	13.6887
chr10	192734	BC055322	Al646023	Mus musc	2082.17	137.1855	206.6895
chr6	19283	AJ133130	Ptprz1	Mus musc	1316.759	78.4564	130.7335
chr6	109648	BC043012	Npy	Mus musc	4594.096	401.4575	418.0175
chr7	195646	AK043969	Hs3st2	Mus musc	123.6935	12.3135	11.1291
chr9	72230	AK016584	Zfp558	Mus musc	1229.768	122.5215	119.0595
chr17	66237	BC020190	Atp6v1g2	Mus musc	4761.931	462.7424	475.3695
chr17	66237	BC062380	Atp6v1g2	Mus musc	8967.466	864.1435	896.5675
chr3	320840	BC146005	Negr1	Mus musc	5635.574	563.8715	429.0175
chrX	279561	BC060731	Wnk3	Mus musc	896.085	41.7515	89.6761
chr15	67498	BC128477	Kcnv1	Mus musc	546.391	35.727	54.6927
chr18	383348	AK220381	Kctd16	Mus musc	448.9335	24.1976	44.9783
chr3	20257	BC026538	Stmn2	Mus musc	18568.6	1020.076	1862.277
chr8	74513	AK017458	Neto2	Mus musc	6115.901	473.0475	614.0915
chr10	216028	BC094910	Lrrtm3	Mus musc	2309.87	92.2435	232.0355
chr3	70441	AK163433	2610100L1	Mus musc	352.3515	12.716	13.5338
chr4	215090	BC065047	Maneal	Mus musc	2751.095	140.9375	277.8755
chr13	54326	BC098215	Elovl2	Mus musc	1539.644	30.9049	44.4613
chr4	74438	AK083810	Rlbp1l1	Mus musc	78.0575	6.1938	5.9328
chr1	210417	BC063250	Thsd7b	Mus musc	135.4104	8.1046	13.6866
chr9	331033	AK048592	2900079G	Mus musc	220.7749	16.5603	22.3667
chr4	70433	BC060239	2610109H	Mus musc	3573.068	267.0235	362.2695
chr11	59044	AK166468	Rnf130	Mus musc	4948.012	400.2875	501.8788
chr2	17957	BC049874	Napb	Mus musc	8435.814	618.1095	858.3855
chrX_rand	236576	NM_00103	Spry3	Mus musc	561.8475	28.8926	57.3035
chr8	210027	BC115965	Slc35f3	Mus musc	686.5955	55.9701	70.0794
chr11	268510	AK049266	Mgat5b	Mus musc	1441.22	78.0666	97.5487
chr14	268747	BC156310	Lrrc16b	Synthetic	3680.302	375.9036	367.5415
chr12	15375	BC096524	Foxa1	Mus musc	225.9937	14.1389	23.0909
chr10	18390	AF062755	Oprm1	Mus musc	275.7295	28.2614	16.7378
chr16	N/A	NM_00111	N/A	Mus musc	904.1176	92.9155	39.7593
chr9	17758	AK163450	Mtap4	Mus musc	3158.042	90.4115	208.5835
chr2	241727	BC117896	Snph	Mus musc	1551.844	67.0518	49.2582
chr18	20983	BC058208	Syt4	Mus musc	5168.07	251.0795	362.3502
chrX	66104	BC087890	Tceal6	Mus musc	1357.535	76.2975	140.0299
chr7	74004	XM_35595	Jakmip3	PREDICTI	542.6065	55.9994	35.1392
chrX	635253	XM_00147	Usp51	PREDICTI	663.1695	39.0727	68.7257
chr12	17263	AK147321	Meg3	Mus musc	14095.61	1341.504	1460.836
chr16	328643	BC052055	Vwa5b2	Mus musc	1585.877	159.2955	149.8355
chr10	215085	BC059075	Slc35f1	Mus musc	3322.561	196.4235	344.9435
chr9	20616	AK159570	Snap91	Mus musc	11288.94	829.9954	1175.444
chr9	19289	BC086481	Igdcc3	Mus musc	4376.765	400.4455	456.2575
chr17	214931	BC042620	Fbxl16	Mus musc	1483.6	118.8115	154.6975

chr8	244310	AK033077	Dlgap2	Mus musc	195.1355	17.7146	20.3644
chr2	53626	BC051240	Insm1	Mus musc	693.2986	43.8452	72.5456
chr7	64176	AK140104	Sv2b	Mus musc	1754.1	179.8495	184.0276
chr9	20616	BC031773	Snap91	Mus musc	6811.802	419.1535	714.8935
chr7	330671	BC038881	B4galnt4	Mus musc	935.7269	69.6297	98.3015
chr2	228564	AK044270	Frmd5	Mus musc	1845.495	79.5835	144.4255
chr3	76897	AK032086	Raly1	Mus musc	77.2055	6.4898	8.1263
chr1	214253	BC152310	Etnk2	Mus musc	1105.222	63.8961	116.6095
chr19	15566	BC116986	Htr7	Mus musc	2820.886	141.3395	297.6798
chr7	407812	BC066028	BC066028	Mus musc	901.7795	95.1915	22.9023
chr1	320492	AK136763	A830018L1	Mus musc	445.6471	47.136	29.29
chr10	108030	BC105965	Lin7a	Mus musc	998.8495	39.3791	105.6715
chr18	225655	AK038905	Slmo1	Mus musc	1112.178	117.6815	103.5615
chr11	207607	BC072591	Ccdc40	Mus musc	712.5875	75.4469	67.3278
chr12	114712	BC111576	Ferd3l	Mus musc	588.5483	35.6724	32.7705
chr12	319504	BC156235	Nrcam	Synthetic	6533.748	456.7968	606.6012
chr8	74513	AK081462	Neto2	Mus musc	3167.038	229.9895	338.3034
chr9	20264	AK157866	Scn10a	Mus musc	182.2375	12.1405	12.186
chr10	52906	BC055400	Ahi1	Mus musc	3849.41	247.8835	412.2695
chr16	224344	BC050779	Rbm11	Mus musc	555.47	44.8416	59.4976
chr13	69315	AK005609	1700001L1	Mus musc	558.2599	37.569	59.8052
chr14	12891	AK134548	Cpne6	Mus musc	591.3615	35.1661	63.4042
chr19	20562	BC057131	Slit1	Mus musc	408.2041	43.7702	42.4053
chr2	228564	AK030883	Frmd5	Mus musc	797.352	30.0068	68.6597
chr9	12424	BC028487	Cck	Mus musc	513.8695	13.2465	31.0394
chr16	108105	BC063076	B3gnt5	Mus musc	1359.364	75.2915	146.5852
chr1	399595	BC066109	6430514M	Mus musc	203.5264	14.7124	21.9761
chr11	207777	BC055691	Bzrap1	Mus musc	1616.707	113.8675	138.6835
chr2	76960	BC113957	Bcas1	Mus musc	1491.682	119.7015	161.4815
chr5	330166	XM_48910	Miat	PREDICT	1846.842	199.9615	172.0896
chr5	80334	AK148685	Kcnp4	Mus musc	2106.446	111.1155	199.3537
chr10	216152	BC066006	BC005764	Mus musc	6132.804	587.5915	666.2022
chr3	319478	BC065149	Cxxc4	Mus musc	2547.816	194.9355	276.9695
chr2	241308	AK170248	Ralgps1	Mus musc	5948.116	647.7974	488.1735
chr17	320858	AK053068	L3mbtl4	Mus musc	71.5516	5.5222	7.796
chr13	69315	BC049693	1700001L1	Mus musc	282.5116	14.8148	30.811
chr10	94214	BC057324	Spock2	Mus musc	10116.96	900.7515	1103.91
chr7	233879	AK043553	Asphd1	Mus musc	908.3315	72.0039	51.3176
chr18	383348	AK015313	Kctd16	Mus musc	201.4241	14.1051	22.0083
chr9	19289	BC053057	Igdcc3	Mus musc	7354.019	803.8778	765.4195
chr18	225743	XM_12904	Rnf165	PREDICT	1735.74	117.3514	189.7555
chr18	N/A	DQ465972	N/A	Mus musc	1479.192	76.4235	127.4315
chr11	15413	BC103595	Hoxb5	Mus musc	12198.63	752.8215	717.5415
chr10	67569	AK032009	Mgat4c	Mus musc	630.5467	23.9528	32.3213
chr17	225030	BC148342	Kcng3	Synthetic	107.9395	11.8532	7.6469
chr8	19339	AK005362	Rab3a	Mus musc	6657.016	691.6795	732.4703
chr1	1E+08	XM_00147	Gm11578	PREDICT	333.6729	36.7429	32.6462
chr5	71951	AK010515	Gpc2	Mus musc	15470.35	1549.173	1704.69
chr2	N/A	AK082432	N/A	Mus musc	407.9155	21.3841	45.0152
chr1	11899	AK138576	Astn1	Mus musc	71.173	7.8723	7.7619
chr18	225743	AK133955	Rnf165	Mus musc	8397.118	665.4035	930.2235
chr12	17263	BC048191	Meg3	Mus musc	13835.23	1235.928	1532.692
chr4	76132	AK144924	6230409E	Mus musc	2725.794	195.3275	302.7287

chr19	20510	BC064797	Slc1a1	Mus musc	2575.508	160.5015	270.0335
chr5	330166	AK053540	Miat	Mus musc	3633.27	404.3835	342.1455
chr18	225655	AK044163	Slmo1	Mus musc	1021.554	100.3085	113.7155
chr4	1E+08	XM_00147	Gm2327	PREDICT	298.3088	27.7062	33.3118
chr13	77920	AK020728	A33010211	Mus musc	495.6245	16.629	28.0362
chr17	73242	AK028297	2610110G	Mus musc	8040.02	845.7128	900.0595
chr7	57776	AK042758	Ttyh1	Mus musc	9233.53	721.0315	1034.45
chr10	1E+08	XM_00148	6430590A	PREDICT	94.2532	10.5664	10.0292
chr5	52822	BC058259	Rufy3	Mus musc	17623.3	1334.96	1246.23
chr12	N/A	XM_00147	N/A	PREDICT	219.2159	24.6034	13.9482
chr18	225642	BC024515	Grp	Mus musc	413.0038	18.9442	27.5782
chr7	101490	AK047166	Inpp5f	Mus musc	6843.32	603.0595	771.3055
chr17	21645	BC145741	Tcte1	Mus musc	172.5895	17.3042	17.7023
chr9	64085	BC063058	Clstn2	Mus musc	5799.491	407.7675	653.8695
chr13	13612	BC056386	Edil3	Mus musc	1292.78	46.1342	146.0277
chr18	225362	BC020184	Reep2	Mus musc	7656.512	624.7575	866.3735
chr11	15417	BC100743	Hoxb9	Mus musc	1608.514	54.3637	182.2695
chr1	98741	BC146609	Kcnb2	Mus musc	1502.848	153.7351	163.9795
chr3	56772	BC022963	Milt11	Mus musc	20381.89	1811.286	2318.084
chr4	269610	AK129145	Chd5	Mus musc	3547.722	305.7375	403.5715
chr15	17309	BC053040	Mgat3	Mus musc	5334.84	345.5017	607.1375
chr14	268723	AK043847	A830039N	Mus musc	3502.208	271.0595	399.0575
chr2	228564	AK146383	Frmd5	Mus musc	1930.495	81.0409	193.713
chr6	20965	AK029181	Syn2	Mus musc	4146.963	473.1826	436.4515
chr1	215303	BC021840	Camk1g	Mus musc	2991.658	261.2875	341.4815
chr10	216152	AK083932	BC005764	Mus musc	6685.486	563.9095	763.6175
chr4	76376	AK038634	Slc24a2	Mus musc	225.5435	17.0759	25.8068
chr11	192650	BC104356	Cabp7	Mus musc	591.7974	66.1279	67.7207
chr10	N/A	AK164118	N/A	Mus musc	104.3459	11.9675	9.1538
chr13	195208	AK220370	Dcdc2a	Mus musc	255.5515	21.4039	29.3647
chr4	230903	AK170958	Fbxo44	Mus musc	2326.97	210.5575	267.7333
chr5	N/A	BC068233	N/A	Mus musc	1667.138	117.4295	191.8612
chr3	229694	BC127040	AI504432	Mus musc	699.1195	34.6665	80.4615
chr18	12326	BC070420	Camk4	Mus musc	1479.088	128.4891	170.4235
chr9	72230	XM_35622	Zfp558	PREDICT	3363.95	387.8853	365.9115
chr18	14680	AK045484	Gnal	Mus musc	65.38	6.2532	7.5772
chr1	17756	BC048781	Mtap2	Mus musc	11508.71	1180.322	1335.292
chr12	20666	BC062095	Sox11	Mus musc	8261.414	599.8606	959.4955
chrX	56191	AF288605	Tro	Mus musc	5203.662	528.3035	604.7095
chr3	109676	AK036018	Ank2	Mus musc	13450.29	884.1555	1563.964
chr14	545007	BC093494	ENSMUSG	Mus musc	763.5686	88.8487	83.9775
chr1	77629	BC069832	Sphkap	Mus musc	1219.258	81.7735	141.8995
chr3	18526	NM_00109	Pcdh10	Mus musc	517.6255	15.8485	60.259
chr5	65254	AK082132	Dpysl5	Mus musc	203.0555	18.2571	23.6431
chr3	229801	BC024829	Tram111	Mus musc	7293.314	594.5075	849.4855
chr18	225362	AK158694	Reep2	Mus musc	3567.498	341.4535	415.7761
chr19	225998	AK044421	Rorb	Mus musc	67.3758	7.7396	7.8556
chr11	51799	AK002856	Rundc3a	Mus musc	4172.474	488.0935	327.2655
chr15	66656	BC079855	Eef1d	Mus musc	2203.266	198.4735	257.8435
chr8	244310	AY243847	Dlgap2	Mus musc	558.2035	19.2808	47.4388
chr7	76373	BC117497	Zfp773	Mus musc	1201.504	108.9175	141.1415
chr3	N/A	AK082954	N/A	Mus musc	70.5156	8.2887	7.7874
chrX	56191	BC053018	Tro	Mus musc	5075.736	596.6455	597.4035

chr4	72685	AK122293	Dnajc6	Mus musc	4875.002	226.8916	336.4555
chr15	432938	AK083927	LOC43293	Mus musc	109.1124	12.8496	10.9966
chr1	98741	NM_00109	Kcnb2	Mus musc	409.0556	28.353	48.3216
chr18	15562	Y09587	Htr4	Mus musc	432.8115	38.4457	38.9794
chr4	15444	AF326551	Hpca	Mus musc	125.9755	14.9278	11.7835
chr7	64176	NM_00110	Sv2b	Mus musc	661.4675	62.0545	78.4315
chr16	16522	AK015481	Kcnj6	Mus musc	276.0315	22.5757	32.1535
chr3	208188	BC120672	Ghsr	Mus musc	442.9045	52.6552	16.8487
chrX	245607	AK081764	Gprasp2	Mus musc	5050.293	481.8692	600.6013
chr8	102075	BC156162	Plekhg4	Synthetic	384.9093	25.06	45.8214
chr2	170738	AK043768	Kcnh7	Mus musc	105.031	6.9939	12.5125
chr10	19279	Z30313	Ptprr	M.musculu	1688.729	83.3907	201.2235
chr2	14725	AK165434	Lrp2	Mus musc	74.1975	7.9413	6.4511
chr4	242506	BC112419	Frmd3	Mus musc	614.6802	34.1188	73.3935
chr5	330166	AK038726	Miat	Mus musc	3402.09	394.1529	406.7635
chr5	52822	AK013185	Rufy3	Mus musc	18076.97	1289.93	1406.334
chrX	245607	BC117923	Gprasp2	Mus musc	6766.522	443.2815	809.6694
chrX	320237	BC052359	Ncrna0008	Mus musc	4616.93	445.9083	552.4575
chr1	16872	BC049834	Lhx4	Mus musc	210.6853	20.3179	25.2134
chr6	320902	AK158619	A730020E	Mus musc	79.2289	8.9218	9.4916
chr4	319865	AK086602	E130114P	Mus musc	1000.978	110.8508	119.9555
chr9	14802	BC060697	Gria4	Mus musc	1908.224	82.851	228.8715
chr1	75605	AK220451	Kdm5b	Mus musc	8985.918	1040.214	1039.172
chr8	66959	BC018204	Dusp26	Mus musc	2304.35	243.6555	276.7791
chr9	20616	AK147087	Snap91	Mus musc	5959.322	473.0955	715.9775
chr9	208583	BC119588	Nek11	Mus musc	155.0915	12.8779	18.6387
chr10	1E+08	XM_00147	Gm3515	PREDICT	1083.338	51.4377	52.2918
chr19	20510	U75214	Slc1a1	Mus musc	2565.186	168.5195	308.8895
chr1	226781	BC152750	Slc30a10	Synthetic	406.9955	43.4095	49.0451
chr8	1E+08	XM_00147	Gm4053	PREDICT	100.2175	12.0828	11.3097
chr8	19339	AK161975	Rab3a	Mus musc	6655.986	765.8995	803.3598
chr3	18526	BC065695	Pcdh10	Mus musc	277.9046	18.5797	33.5705
chr9	72230	BC048749	Zfp558	Mus musc	2942.502	356.2195	337.0595
chr3	320747	BC117866	Lingo4	Mus musc	352.1449	42.7004	41.5813
chr4	230235	AK038461	6430704M	Mus musc	4695.094	247.8962	570.2935
chr19	332397	BC085512	Nanos1	Mus musc	2440.174	150.4235	296.5455
chr9	22771	BC050889	Zic1	Mus musc	10880.53	1004.893	1322.579
chr12	19276	BC048570	Ptpnr2	Mus musc	72.9776	7.6669	8.459
chrX	93837	BC059233	Dach2	Mus musc	370.5075	24.1007	45.1579
chr9	56808	AY502107	Cacna2d2	Mus musc	2725.306	284.9275	332.2275
chr11	14401	BC145973	Gabrb2	Mus musc	1331.666	68.9897	162.5555
chr5	243300	AK080821	6430598A	Mus musc	2357.334	216.6675	287.8028
chr7	13593	BC067018	Ebf3	Mus musc	7642.226	933.6031	722.4915
chr12	27386	BC120885	Npas3	Mus musc	1463.08	153.6556	178.8548
chr19	20411	AK122487	Sorbs1	Mus musc	1501.105	183.7239	119.0395
chr14	72661	AK012850	Serp2	Mus musc	4568.429	252.3479	248.8035
chr6	N/A	XM_00148	N/A	PREDICT	2261.856	217.1195	184.1615
chr2	75276	BC120706	Ppp1r1c	Mus musc	135.1295	16.5488	11.3097
chr15	69440	BC058958	Fam116b	Mus musc	737.1655	81.7388	90.3115
chr15	13992	AK014353	Khdrbs3	Mus musc	430.6775	47.9609	45.624
chr4	635169	XM_98979	CK137956	PREDICT	541.6575	66.4079	19.6193
chr18	56069	AK003506	Il17b	Mus musc	2188.504	228.8395	268.5793
chr16	320007	AY562214	Sidt1	Mus musc	348.4855	34.8395	28.3214

chrX	14396	BC119317	Gabra3	Mus musc	6112.056	701.6309	627.7175
chrX	245643	BC117734	Frmpd3	Mus musc	555.1015	49.7153	68.4977
chr14	545007	BC028273	ENSMUSG	Mus musc	806.0702	99.7515	85.4735
chr16	108105	AK037166	B3gnt5	Mus musc	1389.625	115.5995	172.1395
chr3	1E+08	XM_00147	Gm3469	PREDICT	92.6975	10.6355	11.5209
chr8	319555	AK087622	Nwd1	Mus musc	104.4835	12.8406	12.9938
chr13	328234	BC089488	Rnf182	Mus musc	2027.082	252.2135	115.8288
chr1	214253	AK087818	Etnk2	Mus musc	383.9455	34.4043	47.7716
chr5	231044	BC156358	Gbx1	Synthetic	1046.902	103.0555	101.5515
chr17	27409	BC106766	Abcg5	Mus musc	149.8157	11.9376	18.6664
chr14	1E+08	XM_00147	Trav3d-3	PREDICT	126.5415	11.5426	15.8194
chr1	383563	XM_35712	Gpr25	PREDICT	362.1035	45.2745	20.0686
chr3	78784	AK044069	Tnrc4	Mus musc	1647.552	117.071	112.7215
chr3	13175	NM_00111	Dclk1	Mus musc	10436.27	736.8638	1307.41
chr2	72899	BC076574	Macrod2	Mus musc	878.1295	80.6475	110.0195
chrX	236899	BC048917	Pcyt1b	Mus musc	2809.582	283.9275	352.0855
chr17	22715	BC052028	Zfp57	Mus musc	11601.78	992.5615	1454.224
chr3	213582	AK038737	Mtap9	Mus musc	4239.227	532.7495	527.7237
chr3	229714	BC116333	Gpr61	Mus musc	616.6815	77.1855	77.7135
chr3	18526	NM_00109	Pcdh10	Mus musc	973.1188	35.1661	122.7275
chr4	76132	AK081616	6230409E	Mus musc	4172.687	370.1135	527.6735
chr15	18574	AK004772	Pde1b	Mus musc	4559.106	558.6459	576.9239
chr4	319865	BC048947	E130114P	Mus musc	2544.362	322.6378	318.5975
chr3	229521	AK164368	Syt11	Mus musc	14237.76	1459.286	1806.094
chr9	330941	BC109328	Al593442	Mus musc	369.3435	23.8839	17.587
chr2	104010	BC112407	Cdh22	Mus musc	1566.785	117.9431	157.9995
chr10	14687	BC014702	Gnaz	Mus musc	3538.422	263.7289	449.2775
chr14	380918	XM_35482	Siah3	PREDICT	672.999	70.0855	85.4535
chr1	54418	BC094606	Fmn2	Mus musc	3359.685	192.8335	427.2137
chr9	235106	AK138263	Ntm	Mus musc	116.6815	11.5986	11.3816
chr7	52855	AF491829	Lair1	Mus musc	136.6035	12.606	15.2938
chr4	140477	BC050912	Dmbx1	Mus musc	157.1756	15.6297	20.0245
chr16	16180	AK034269	Il1rap	Mus musc	249.6035	31.811	23.8958
chr19	12794	BC103797	Cnih2	Mus musc	18545.13	1976.504	2363.986
chr19	72832	BC024472	Crtac1	Mus musc	2772.739	255.1495	353.7542
chr1	226610	BC132161	Fam78b	Mus musc	1278.808	134.0255	163.3155
chr2	245865	AK043812	Spag4	Mus musc	203.0115	20.7668	25.9665
chr9	235402	BC052384	Lingo1	Mus musc	6804.41	476.2675	871.5624
chr10	18390	AF167565	Oprm1	Mus musc	89.2825	9.9986	7.1404
chr4	381582	AK147532	Gm5151	Mus musc	528.6675	49.2172	67.8857
chr5	333050	DQ531035	Ksr2	Mus musc	1112.288	75.1355	142.9169
chr9	56808	AK044603	Cacna2d2	Mus musc	2886.448	299.7364	371.7432
chr2	72899	NM_00101	Macrod2	Mus musc	1242.248	98.4815	160.1495
chr8	244281	BC082311	Myo16	Mus musc	2574.727	249.4995	332.4475
chr7	101490	BC067200	Inpp5f	Mus musc	4558.42	515.0815	588.6712
chr12	20666	BC078643	Sox11	Mus musc	9628.566	627.1675	1245.498
chrX	70696	BC068255	3830417A	Mus musc	107.1135	11.8294	13.8628
chr12	73667	AK010406	2410004P	Mus musc	201.9268	10.3563	26.1426
chr7	101490	BC050127	Inpp5f	Mus musc	11391.95	1090.686	1476.446
chr12	16981	BC069041	Lrrn3	Mus musc	6409.522	483.8295	832.9835
chr6	N/A	AK046042	N/A	Mus musc	425.7335	25.3323	55.3317
chr1	98388	BC056956	Chst10	Mus musc	3859.78	305.4515	502.0394
chr3	229521	AK133414	Syt11	Mus musc	5819.474	636.3335	757.0875



chr10	18390	AB047546	Oprm1	Mus musc	253.585	33.0051	25.2342
chr7	56315	BC119045	Rhcg	Mus musc	214.5055	23.4417	27.9422
chr7	260299	BC148452	Cadm4	Synthetic	11430.42	1242.42	1489.142
chr17	73242	AK011750	2610110G	Mus musc	6964.911	909.1369	858.8015
chr17	54393	BC054735	Gabbr1	Mus musc	20065.59	2045.191	2626.029
chr9	77609	BC057069	Ccdc151	Mus musc	490.4655	64.2101	47.7517
chr1	98741	XM_00147	Kcnb2	PREDICT	631.3517	64.0101	82.7015
chr13	12919	BC061247	Crhbp	Mus musc	139.6695	18.3056	13.2196
chr14	72003	BC026512	Synpr	Mus musc	1736.896	133.3974	227.6995
chr5	N/A	AB294522	N/A	Mus musc	1583.948	190.2695	207.7101
chr4	1E+08	XM_00147	Gm11837	PREDICT	411.4114	41.7146	54.0214
chrX	237178	AK141939	Ppef1	Mus musc	77.2466	10.1464	8.4327
chr14	211712	AK147451	Pcdh9	Mus musc	313.9198	28.0338	30.7459
chr1	19736	BC055293	Rgs4	Mus musc	6784.74	873.3655	891.8041
chr15	211147	AK162044	March11	Mus musc	694.292	47.5623	59.725
chr5	269695	NM_00110	Rnft2	Mus musc	6814.546	897.9875	774.1375
chr4	56296	XM_20546	Dmrtb1	PREDICT	375.7455	22.3815	49.5437
chr10	237553	BC032288	Trhde	Mus musc	194.5315	18.4046	25.7833
chr6	101359	AK052319	Prrt4	Mus musc	1147.108	136.6155	130.3075
chr6	320701	BC089490	Fam19a4	Mus musc	152.5655	20.2392	17.2584
chr2	227632	BC057073	Kcnt1	Mus musc	503.5175	26.6133	66.8398
chr3	329782	BC048612	4930570G	Mus musc	214.5855	22.7389	24.7213
chr12	238276	AK139319	Akap5	Mus musc	2252.27	299.7195	163.2041
chr5	243300	AK141276	6430598A	Mus musc	4513.673	456.5495	601.5702
chrX	331424	AK082088	C230004F	Mus musc	339.8915	23.6025	45.3441
chr7	13389	BC052002	Dll3	Mus musc	491.1501	30.4257	48.7202
chr1	72585	BC058599	Lypd1	Mus musc	2495.024	110.2435	333.0955
chr2	381405	BC067000	Gm1008	Mus musc	557.5435	39.0772	74.5261
chr16	16443	BC156473	ltsn1	Synthetic	3058.006	322.4232	409.0515
chrX	245537	XM_00147	Nlgn3	PREDICT	4982.906	424.6884	666.6815
chr8	104271	AK143304	Tex15	Mus musc	411.3174	25.7168	55.0722
chr3	59058	BC053007	Bhlhe22	Mus musc	4831.458	235.1535	647.0335
chr2	67874	BC030065	Rprm	Mus musc	4414.37	371.3101	591.2535
chr7	64176	AK159028	Sv2b	Mus musc	1164.458	129.3975	156.1295
chr5	50791	AK039336	Magi2	Mus musc	418.8935	50.2045	50.9663
chr3	26570	AK037742	Slc7a11	Mus musc	1219.445	163.9175	145.2735
chr2	338346	BC112377	Gpr21	Mus musc	1798.285	191.9815	241.8275
chr9	235604	BC022169	Camkv	Mus musc	803.6045	66.7498	51.2318
chr18	28105	BC058106	Trim36	Mus musc	1678.061	109.9547	225.9945
chr12	78257	AK015292	Lrrc9	Mus musc	110.6704	14.9128	10.5239
chr1	269204	AK042880	A730034C	Mus musc	18827.97	1758.116	2427.882
chr7	11775	BC024722	Ap3b2	Mus musc	142.8275	11.855	9.5326
chr7	23859	AK030221	Dlg2	Mus musc	2669.62	360.4275	355.0873
chr11	78303	BC051921	Hist3h2ba	Mus musc	2461.035	285.7275	332.2708
chr12	93835	AK088429	Amn	Mus musc	418.4335	20.8384	56.5466
chr18	93880	BC055319	Pcdhb9	Mus musc	243.3675	17.9346	32.9527
chr5	381634	XM_35559	Gm1043	PREDICT	124.2235	15.0634	9.5277
chrX	237178	BC148447	Ppef1	Synthetic	215.2565	29.29	11.8378
chr19	329064	BC116297	Pkd211	Mus musc	139.5695	16.7345	18.996
chrX	668202	XM_00147	Gm9043	PREDICT	119.4295	15.004	16.2835
chr4	76132	BC059864	6230409E	Mus musc	8208.76	789.1555	1120.958
chr10	14687	AK133483	Gnaz	Mus musc	3876.002	238.2115	529.9455
chr2	18111	BC036984	Nnat	Mus musc	29475.75	2117.382	2306.9

chr7	232813	AK145016	D430041B	Mus musc	1449.538	50.5292	53.4467
chr2	271786	AK030726	Galnt13	Mus musc	1381.632	133.2935	189.4305
chr9	110637	BC118010	Grik4	Mus musc	959.7355	96.3215	131.6175
chr11	103712	BC069976	6330403K	Mus musc	11240.28	1062.15	1545.772
chr14	69248	AK011684	2610035F2	Mus musc	180.4875	24.8253	16.5615
chr10	74694	XM_13732	Tbc1d30	PREDICT	819.3415	103.084	100.7435
chr1	240726	AK041736	Slco5a1	Mus musc	2844.272	197.6455	391.6255
chr9	270190	BC057301	Ephb1	Mus musc	1752.348	176.4535	241.3295
chr17	268932	AK129327	Caskin1	Mus musc	4460.434	313.1495	398.9655
chr12	75801	AK044729	Six6os1	Mus musc	77.2318	7.9568	10.6555
chr11	193003	AK149240	A530088H	Mus musc	1342.224	134.3659	185.4595
chr2	214240	AK038938	Disp2	Mus musc	163.6555	10.3274	19.5237
chr5	72898	BC046606	Asphd2	Mus musc	2807.748	266.8935	388.2275
chr14	N/A	BC080297	N/A	Mus musc	1447.588	200.3095	181.3886
chr4	73721	AB231294	1110017D	Mus musc	230.0895	22.5357	31.8475
chr10	18390	AF074973	Oprm1	alt 'MOP-F	187.8575	11.3816	17.5141
chr7	110058	AK135098	Syt17	Mus musc	424.6035	19.0204	46.845
chr5	52850	AK167632	Sgsm1	Mus musc	1195.941	63.5862	166.1764
chrX_rand	236576	BC132135	Spry3	Mus musc	352.1455	37.3676	45.5152
chr5	17690	BC140422	Msi1	Synthetic	9610.358	1089.838	1336.988
chr2	1E+08	XM_00148	Gm4715	PREDICT	100.6995	14.0213	12.722
chr10	67331	BC118978	Atp8b3	Mus musc	137.403	19.1463	12.0027
chr8	244579	BC052044	Tox3	Mus musc	7376.392	917.2895	1028.522
chr1	70375	AK165131	Ica1l	Mus musc	242.7415	25.7021	33.8773
chr8	74356	AK016481	4931428F	Mus musc	8594.654	1023.334	1200.229
chr5	242894	BC082279	Actr3b	Mus musc	1038.935	72.0116	120.6215
chr2	277468	BC113764	Slc39a12	Mus musc	351.2895	27.838	49.1408
chr3	72608	AK012506	2700069I1	Mus musc	548.7595	76.7651	76.1395
chr14	1E+08	XM_00148	Gm4423	PREDICT	133.5875	15.324	18.7075
chr19	56839	AK035873	Lgi1	Mus musc	111.9655	15.7033	9.2832
chrX	245446	BC117890	Slitrk4	Mus musc	2008.707	208.1459	281.8815
chrX	245555	DQ975303	C77370	alt 'A2300	295.1475	21.6565	41.4686
chr10	237253	AK048919	Lrp11	Mus musc	427.4715	60.263	47.0244
chr9	192663	BC016200	Abcg4	Mus musc	1203.288	104.5035	169.6895
chr4	19266	AK034145	Ptprd	Mus musc	253.9975	21.5023	35.8547
chr14	545015	BC089473	ENSMUSC	Mus musc	701.8939	99.0833	95.7315
chr8	270109	AK030215	Pcnxl2	Mus musc	584.6495	52.5893	61.7926
chr2	110876	NM_00109	Scn2a1	Mus musc	3475.704	326.6408	490.9735
chr11	68729	BC058678	Trim37	Mus musc	3402.224	365.4975	481.1267
chr3	16491	BC132349	Kcna3	Mus musc	1926.975	178.5695	272.5455
chr4	56710	BC079630	Dbc1	Mus musc	8417.608	1050.73	1192.172
chr2	15430	BC013463	Hoxd10	Mus musc	4097.816	347.4738	580.4163
chr5	N/A	AB294528	N/A	Mus musc	1133.176	137.8983	160.6233
chr7	27493	XM_97346	D0Kist2	PREDICT	64.699	9.1904	7.9769
chr7	52389	BC056493	Gpr123	Mus musc	1445.604	194.3336	205.5333
chr9	245049	BC129851	Myrip	Mus musc	660.2135	51.2737	74.2435
chr5	231503	AK044702	Tmem150c	Mus musc	153.5395	9.6443	21.8642
chr1	19702	BC011473	Ren2	Mus musc	103.7399	14.4486	14.5491
chr9	15379	BC024053	Onecut1	Mus musc	1434.652	204.4226	117.5935
chr3	11924	BC055743	Neurog2	Mus musc	474.5815	35.2109	67.7498
chr16	72555	AK049860	2700045P	Mus musc	5623.222	540.4115	804.7375
chr17	22153	BC049112	Tubb4	Mus musc	28385.43	3608.064	4065.064
chr8	18168	AK045587	Npy5r	Mus musc	197.2315	6.3865	28.2687



chr2	78774	AK019712	4930529M	Mus musc	64.938	9.3118	9.1981
chr13	627415	XM_89207	Gm6753	PREDICT	449.9213	32.4996	63.4042
chr7	N/A	AK082200	N/A	Mus musc	246.3355	20.2277	35.4429
chr19	54525	BC139806	Syt7	Mus musc	1555.932	110.0775	224.0526
chr18	12558	BC022107	Cdh2	Mus musc	6730.576	969.4259	849.3321
chrX	331424	AK163488	C230004F	Mus musc	126.2314	14.3486	18.188
chr11	13643	BC052001	Efnb3	Mus musc	11151.57	811.2395	1607.158
chr5	69665	BC115563	2310043J0	Mus musc	547.0475	70.3316	78.8815
chr10	320495	BC148569	Ipcef1	Synthetic	358.7675	25.6859	22.6561
chr10	75906	AK016375	Fam184a	Mus musc	791.8812	71.9215	114.2375
chr10	237397	AK029946	C2cd4c	Mus musc	324.9241	19.5911	26.969
chr5	71951	AK048605	Gpc2	Mus musc	1076.814	117.8757	155.5678
chr3	229714	AK133702	Gpr61	Mus musc	346.9755	42.1322	47.3273
chr10	212448	AK034141	9330159F1	Mus musc	2831.215	308.9095	310.8841
chr10	104080	BC140288	Nxph4	Synthetic	4393.382	463.1226	636.0488
chr16	72555	BC030884	2700045P	Mus musc	5277.026	550.8485	764.0417
chr2	108832	XM_13064	5430405G	PREDICT	551.1117	79.8233	25.947
chrX	56191	AK047777	Tro	Mus musc	5597.65	811.2395	782.8495
chr7	18987	X57940	Pou2f2	Mouse mF	1202.502	172.6835	174.3675
chr4	76376	NM_00111	Slc24a2	Mus musc	755.4595	58.7645	109.5955
chr12	238323	BC027298	Rps6kl1	Mus musc	550.2515	79.8555	73.654
chr7	1E+08	XM_00147	Gm3105	PREDICT	4466.192	648.2475	47.9331
chr5	66717	BC125034	Ccdc96	Mus musc	259.2135	37.6279	32.3694
chr6	114142	BC058960	Foxp2	Mus musc	3397.442	451.3375	493.7831
chr10	18390	AF260311	Oprm1	alt 'MOP-F	210.5375	12.6802	19.0052
chr15	11419	BC067025	Accn2	Mus musc	9576.658	1393.746	1082.718
chr4	230157	AK079633	Tmeff1	Mus musc	28496.79	4043.252	4149.868
chr12	N/A	AK138505	N/A	Mus musc	91.9233	13.3922	12.1504
chr13	282663	BC030354	Serp1nb1b	Mus musc	606.1715	88.4715	83.6235
chr13	17755	AK051573	Mtap1b	Mus musc	13165.16	1334.652	1921.825
chr11	574403	BC072605	Fam196b	Mus musc	778.7175	66.8138	76.4503
chr10	353025	BC116659	Caps2	Mus musc	78.2715	10.2986	9.8376
chr17	545192	AK122358	Baiap3	Mus musc	304.3975	12.5147	33.5182
chrX	245545	XM_14198	Pabpc112a	PREDICT	6889.57	689.0287	1007.66
chr12	319856	AK082104	E530011G	Mus musc	43.5209	6.3659	5.8455
chr10	18390	AF260310	Oprm1	alt 'MOP-F	176.0711	19.9444	9.63
chr9	67703	AK038385	Kirrel3	Mus musc	566.1035	56.8804	67.0313
chr10	18390	EF105314	Oprm1	alt 'MOP-F	217.7015	25.7093	17.4719
chr14	545007	AK049619	ENSMUSG	Mus musc	572.1035	83.8771	49.0212
chr13	110789	AB086167	Gpr98	Mus musc	209.6955	17.461	30.7459
chr2	77015	AK012553	Mpped2	Mus musc	9159.996	826.6304	1344.176
chr2	20269	AK148712	Scn3a	Mus musc	2168.008	179.3403	318.2755
chr8	14107	DQ320125	Fat1	alt '23100	195.5395	13.5934	28.7156
chr6	211187	AK045494	Lrtm2	Mus musc	554.2915	29.6312	60.6199
chr4	1E+08	NM_00109	Zkscan16	Mus musc	418.6315	35.5003	61.6686
chr7	19259	U28216	Ptpn5	Mus musc	215.5495	31.8302	23.7288
chr18	383348	XM_00147	Kctd16	PREDICT	1083.052	109.3535	160.0755
chr6	13426	AK158589	Dync1i1	Mus musc	1971.641	292.1578	263.0615
chrX	14758	AF254879	Gpm6b	Mus musc	123.6695	18.3409	17.2425
chr7	1E+08	XM_00147	Gm3854	PREDICT	1311.11	186.7755	194.6317
chr17	545207	AK132380	E130008D	Mus musc	709.6115	62.1305	105.4167
chr8	1E+08	AK090261	G630030A	Mus musc	1228.768	176.2555	182.5547
chr10	11994	XM_97773	Pcdh15	PREDICT	95.9555	13.3149	14.2721

chr3	319478	BC067052	Cxxc4	Mus musc	3357.346	419.7968	499.7455
chr2	98970	BC060634	Fibcd1	Mus musc	794.3835	52.1055	66.2839
chr2	227632	AK147625	Kcnt1	Mus musc	343.9289	23.7294	51.2318
chr7	233271	BC075646	Luzp2	Mus musc	671.3755	44.8431	100.0255
chr14	50759	BC115890	Fbxo16	Mus musc	1925.204	287.2035	284.4455
chr2	319470	XM_89353	C530025M	PREDICT	44.6887	6.6745	5.6055
chr8	382018	BC058348	Unc13a	Mus musc	911.3795	92.1535	111.3155
chr11	12569	BC058697	Cdk5r1	Mus musc	27653.71	3038.914	4130.918
chr7	664788	XM_97261	Gm7339	PREDICT	6083.57	908.7915	73.6995
chr16	16443	AY257970	ltsn1	Mus musc	3968.234	464.4515	593.3155
chr16	107522	AK043473	Ece2	Mus musc	252.0431	18.6189	37.7019
chr11	252868	BC060992	Odf4	Mus musc	164.3492	16.486	10.3969
chr3	22065	BC108989	Trpc3	Mus musc	3133.976	392.6227	469.2975
chr5	319818	AK050558	A930011G	Mus musc	102.0695	12.1481	8.6457
chr4	15565	BC116652	Htr6	Mus musc	170.2955	24.4788	18.0193
chr10	94214	BC060210	Spock2	Mus musc	24771.9	2878.562	3711.686
chr11	14394	BC132331	Gabra1	Mus musc	1375.809	145.7664	206.4021
chr4	73332	AK005616	Ccdc30	Mus musc	286.9815	43.0694	37.4818
chr14	1E+08	EF651814	Gm10340	Mus musc	8066.074	1211.624	836.8256
chr2	75276	AK157871	Ppp1r1c	Mus musc	51.1001	5.8302	6.4824
chr3	58869	AK039764	Pex5l	Mus musc	680.4221	58.3659	102.3495
chr7	330671	BC156372	B4galnt4	Synthetic	6615.374	970.9035	911.7755
chr19	332397	BC056473	Nanos1	Mus musc	266.1162	10.0063	40.1256
chr1	16524	AK007011	Kcnj9	Mus musc	295.2835	26.1492	26.266
chr2	277468	BC089362	Slc39a12	Mus musc	283.0575	17.279	29.8531
chr7	320208	BC058996	Tmem91	Mus musc	1398.863	183.1595	189.3122
chr9	192663	AF378330	Abcg4	Mus musc	1215.804	109.1555	183.8655
chr7	76373	XM_00147	Zfp773	PREDICT	541.0235	41.9496	81.8235
chr15	223332	BC058706	Ranbp3l	Mus musc	75.7395	11.4922	9.126
chr14	268747	BC060252	Lrrc16b	Mus musc	1613.586	217.275	239.2755
chr1	12570	BC156263	Cdk5r2	Synthetic	302.8135	23.657	39.1454
chr6	72628	AK146012	2700086A	Mus musc	502.1955	66.489	76.7155
chr6	71803	BC116828	Slc25a18	Mus musc	1482.74	203.4575	183.8295
chr2	71313	BC125024	Fsip1	Mus musc	243.0395	19.0746	37.2344
chr2	15430	BC048690	Hoxd10	Mus musc	4763.13	372.3395	731.0314
chr1	98388	BC132223	Chst10	Mus musc	1759.11	130.9343	269.9838
chr10	1E+08	XM_00147	Gm9767	PREDICT	193.2842	23.9906	29.6723
chrX	245450	BC111888	Slitrk2	Mus musc	1048.115	99.6493	160.9955
chr4	71890	BC071264	Mad2l2	Mus musc	2979.84	342.5475	457.7955
chr14	320671	AK047857	D130079A	Mus musc	118.0815	17.8678	18.1497
chr7	269994	NM_00110	Gsg1l	Mus musc	5606.226	557.4255	862.147
chr2	207182	BC005772	Ggt7	Mus musc	1922.617	173.2372	295.6855
chr2	14810	AK090286	Grin1	Mus musc	131.6541	20.2564	7.3077
chr2	77015	AK161666	Mpped2	Mus musc	28873.13	2629.1	4445.558
chr17	66643	BC063057	Lix1	Mus musc	1416.14	178.2135	218.2275
chr14	1E+08	EF651803	1E+08	Mus musc	6733.864	1038.078	790.1035
chr7	319893	AK078191	A230057D	Mus musc	67.7498	10.4524	10.1978
chr9	81907	AK047474	Tmem108	Mus musc	1057.536	113.459	163.3155
chr14	50769	AK051437	Atp8a2	Mus musc	1755.214	191.378	271.0915
chr17	627626	XM_00100	3110082D	PREDICT	228.3515	16.2441	35.326
chr12	13116	BC018307	Cyp46a1	Mus musc	344.7455	31.3264	43.9862
chr5	667705	AK142892	Gm8773	Mus musc	662.9035	61.2967	102.956
chr2	110876	XM_00147	Scn2a1	PREDICT	1354.835	104.6715	181.352



chr16	268859	BC053009	A2bp1	Mus musc	23731.33	2441.88	3693.236
chr5	231503	BC055321	Tmem150c	Mus musc	4310.472	389.0895	670.8756
chr2	12841	BC030945	Col9a3	Mus musc	5555.879	865.7555	856.2215
chr11	276952	BC116407	Rasl10b	Mus musc	219.1405	13.0484	21.1633
chr19	226123	BC057060	Morn4	Mus musc	5054.21	754.9695	788.5055
chr17	18189	AK038854	Nrxn1	Mus musc	117.6734	8.2176	11.9771
chr5	68955	BC056392	Srrm4	Mus musc	1772.866	176.4535	200.2775
chr11	78473	AK169825	Skap1	Mus musc	1412.045	144.3635	172.2295
chr5	80334	DQ148504	Kcnip4	alt 'AV032	232.1291	15.6697	36.2994
chr14	1E+08	EF651802	Gm10014	Mus musc	8104.166	1269.381	1049.384
chrX	211612	NM_00109	Ptchd1	Mus musc	424.8835	55.4778	65.5379
chr10	14816	BC067057	Grm1	Mus musc	183.9655	26.9662	28.8466
chr4	230157	BC057598	Tmeff1	Mus musc	25850.87	4054.296	3481.1
chr5	269695	AK090256	Rnft2	Mus musc	1908.168	299.2855	258.5893
chr2	94217	AK136118	Lrp1b	Mus musc	37.1688	5.1523	5.8306
chr18	225724	BC058942	Mapk4	Mus musc	2991.076	369.0575	470.8995
chr7	N/A	XM_00147	N/A	PREDICT	274.3689	43.2063	20.4288
chr2	241770	BC152875	Rims4	Synthetic	1927.366	303.6174	134.6595
chr9	102747	AK085022	Lrrc49	Mus musc	582.6955	87.4115	78.5775
chr14	1E+08	XM_00147	ENSMUSC	PREDICT	2428.696	383.9463	293.9255
chr13	94253	AK084246	Hecw1	Mus musc	67.2558	10.6484	7.5257
chrX	13497	AK038488	Drp2	Mus musc	628.8395	72.1836	99.761
chr7	58238	BC043329	Fam181b	Mus musc	1361.42	215.9897	181.618
chr2	N/A	AK138532	N/A	Mus musc	270.5395	42.9781	14.8892
chr3	21338	BC066845	Tacr3	Mus musc	151.0895	24.0119	20.4608
chr1	77629	AK038638	Sphkap	Mus musc	212.8695	26.2179	33.85
chr17	328789	BC099483	Tmhs	Mus musc	1074.95	154.6215	75.3855
chr16	14167	AK148215	Fgf12	Mus musc	122.7575	15.0522	19.5237
chrX	14758	AF254870	Gpm6b	Mus musc	4785.976	566.2235	761.4635
chr9	244723	BC115981	Olfm2	Mus musc	4754.109	640.5335	758.1035
chr8	74356	BC043046	4931428F0	Mus musc	7050.256	1124.356	949.8495
chr3	75740	AK032017	6130401L2	Mus musc	86.2775	13.7609	7.796
chr9	270192	BC060618	Rab6b	Mus musc	16044.98	1175.816	1453.583
chr18	240332	BC057070	Slc6a7	Mus musc	354.6156	25.8561	11.5346
chr14	12289	AB086123	Cacna1d	Mus musc	1573.283	162.8414	251.7755
chr7	110058	BC156838	Syt17	Synthetic	1214.388	142.2212	194.4669
chr7	101613	BC013519	Nlrp6	Mus musc	60.4002	9.6735	6.6987
chr11	75429	XM_00100	Fam183b	PREDICT	189.5595	30.3936	19.5542
chr4	381582	XM_35862	Gm5151	PREDICT	955.5084	107.6635	117.1191
chr10	380669	AK012973	Lin28b	Mus musc	44.9901	5.6656	7.2186
chr18	225583	BC075669	A730017C	Mus musc	4225.004	677.9995	642.6075
chr3	58869	AK044552	Pex5l	Mus musc	719.5275	87.0498	84.9995
chr12	17933	XM_00148	Myt1l	PREDICT	723.7175	47.0483	59.9383
chr6	14028	BC126907	Evx1	Mus musc	240.7241	38.7379	27.293
chr11	74309	BC031794	Osbp2	Mus musc	805.9649	43.0297	53.1438
chr4	18762	BC139761	Prkcz	Mus musc	9856.319	1288.988	1587.596
chr14	1E+08	XM_00147	LOC10003	PREDICT	5839.515	941.0518	765.3415
chr17	66643	BC052700	Lix1	Mus musc	1649.52	209.3955	265.8295
chr16	16443	AY129562	ltsn1	Mus musc	4696.905	596.2075	757.6635
chr3	76602	AK006651	1700040D	Mus musc	427.49	69.0017	34.502
chr6	232333	AK053831	Slc6a1	Mus musc	97.4082	8.1327	7.353
chr6	11517	BC067039	Adcyap1r1	Mus musc	4283.516	692.1334	452.0378
chrX	320237	XM_00147	Ncrna0008	PREDICT	374.7855	45.2429	60.5869

chr11	216881	BC030477	Wscd1	Mus musc	7352.14	993.5754	1188.64
chr19	56839	AK031996	Lgi1	Mus musc	1245.516	175.7479	201.6055
chr14	1E+08	EF651820	Gm3264	Mus musc	7884.006	1276.461	961.2661
chr5	N/A	AB294526	N/A	Mus musc	1152.863	164.2059	186.8275
chr10	1E+08	XM_00147	Gm3874	PREDICT	4355.962	706.1135	683.571
chr11	382543	BC152843	Ankfn1	Synthetic	493.7667	34.2404	80.3495
chr18	13176	AK090377	Dcc	Mus musc	40.7563	6.0216	4.6408
chr3	213582	AK138540	Mtap9	Mus musc	4153.716	676.4855	622.9861
chr1	103967	BC024584	Dnm3	Mus musc	1940.948	209.0836	316.3655
chr7	269994	AK082731	Gsg1l	Mus musc	506.7529	48.8796	82.6415
chr3	213582	AK147416	Mtap9	Mus musc	2396.648	341.9515	391.2351
chr4	110351	AK172955	Rap1gap	Mus musc	5653.319	923.0435	553.2714
chr5	69665	BC099515	2310043J0	Mus musc	556.8475	64.954	88.7886
chr3	20674	BC057574	Sox2	Mus musc	2425.283	261.4479	396.4515
chr9	15898	BC113140	Icam5	Mus musc	621.9324	24.6758	70.3156
chr10	18390	AF167566	Oprm1	Mus musc	131.4655	15.4097	16.7494
chr2	72333	AK052157	Palld	Mus musc	109.0809	17.8911	14.7174
chr3	242109	BC092534	Zfp697	Mus musc	2337.884	295.3915	383.9995
chr9	244958	XM_14701	Mrap2	PREDICT	171.1855	20.8792	16.8311
chr16	17968	BC119027	Ncam2	Mus musc	6020.5	737.7215	990.6435
chr1	96935	BC021842	Susd4	Mus musc	5579.958	724.4794	918.7921
chr18	1E+08	AY227026	Nrg2	Mus musc	624.1852	71.1836	57.7442
chr17	54393	BC056990	Gabbr1	Mus musc	11251.54	1483.296	1735.042
chr7	74293	XM_89983	1700095J0	PREDICT	183.5753	17.5673	30.3474
chr6	243764	BC019470	Chrm2	Mus musc	2114.798	163.9795	349.6774
chr14	105439	AK036190	Slain1	Mus musc	5223.819	402.0175	864.9915
chr4	269513	EF058054	Nkain3	alt 'C5300	49.5238	7.6123	7.4841
chr13	110789	BC080679	Gpr98	Mus musc	85.466	8.3613	10.8361
chr1	N/A	AK036422	N/A	Mus musc	213.379	27.2	27.5942
chr9	382089	NM_00103	Ripply2	Mus musc	53.2743	6.8765	8.7767
chr9	50876	AK147581	Tmod2	Mus musc	1608.146	198.7936	268.4195
chr14	1E+08	EF651833	LOC10003	Mus musc	7379.726	1231.984	987.7215
chr10	83767	BC016896	Wasf1	Mus musc	8267.24	789.7277	1380.688
chr9	102614	BC083064	Rpp25	Mus musc	864.0675	144.3295	119.5407
chr7	N/A	S69381	N/A	Kv3.3b=Sl	1552.072	217.1595	259.2515
chr5	20907	BC057892	Stx1a	Mus musc	4232.04	447.2815	707.4115
chr8	75465	BC048623	Dynlrb2	Mus musc	105.3175	17.6094	12.8287
chr18	76217	AK076652	Jakmp2	Mus musc	68.1917	11.4041	6.7243
chr11	75542	AK006051	1700016P0	Mus musc	125.8188	11.936	13.9297
chr17	320593	AK038632	A230051N	Mus musc	83.1735	7.0414	13.9251
chr18	107065	BC140381	Lrrtm2	Synthetic	2033.85	222.2475	340.7375
chr15	320679	BC119383	Samd12	Mus musc	305.3815	23.5901	28.4997
chr14	66435	AK046834	Uggt2	Mus musc	421.0035	36.9969	70.5676
chr14	1E+08	EF651817	ENSMUSG	Mus musc	8586.074	1439.372	926.8475
chr6	19051	BC026822	Gsbs	Mus musc	66.6278	11.1869	6.3352
chr10	74978	AK158531	Lrriq1	Mus musc	93.334	14.5618	15.675
chrX	93761	AK035068	Smarca1	Mus musc	64.2741	7.7708	10.7962
chr7	57740	BC026457	Stk32c	Mus musc	309.1955	28.9907	52.0001
chrX	319781	AK035460	9530051G	Mus musc	62.4897	8.0949	10.3194
chr7	23859	BC140302	Dlg2	Synthetic	2638.78	371.5515	445.2699
chr4	78933	NM_00104	Agbl4	Mus musc	61.7646	7.8723	10.4246
chr17	381112	AK053944	Gm941	Mus musc	129.7675	21.919	10.9326
chr13	1E+08	XM_00147	Gm2379	PREDICT	85.3615	14.1346	14.4246



chr11	1E+08	AK165802	Gm12296	Mus musc	112.0315	14.7323	17.6855
chr7	233071	AK142180	Snx26	Mus musc	9015.674	1267.446	1525.196
chr6	18488	BC141426	Cntn3	Synthetic	1116.046	184.6595	188.9553
chr10	237397	BC089008	C2cd4c	Mus musc	116.4195	19.7109	16.1083
chr6	13426	AF063230	Dync1i1	Mus musc	1998.486	338.5521	219.3623
chr2	228564	AK048865	Frmd5	Mus musc	217.7778	36.9081	16.7338
chr7	101490	BC125437	Inpp5f	Mus musc	32294.74	5019.33	5476.212
chr19	N/A	AK052812	N/A	Mus musc	498.1835	84.5735	49.0212
chr14	544988	BC055874	544988	Mus musc	5000.468	849.0838	631.3969
chr14	12289	AK147415	Cacna1d	Mus musc	787.463	60.5739	125.3449
chr1	12839	BC046970	Col9a1	Mus musc	1616.684	86.3995	274.7527
chr2	329387	AK048710	C230014O	Mus musc	104.9488	8.8686	10.2071
chr10	94214	AK162941	Spock2	Mus musc	145.2086	24.7516	22.5757
chr2	228911	BC028776	Tshz2	Mus musc	2144.436	263.5635	365.6482
chr1	320311	BC118961	Rnf152	Mus musc	2894.572	493.605	332.4195
chr11	26420	AF052469	Mapk9	Mus musc	3966.116	678.5307	592.2255
chr2	18088	XM_00148	Nkx2-2	PREDICT	205.3612	21.5997	35.1392
chrX	70771	BC043021	Gpr173	Mus musc	2084.763	240.2855	357.6479
chr1	320862	BC023483	A730054J2	Mus musc	5502.246	623.0595	944.7255
chr6	20617	BC046764	Snca	Mus musc	13709.64	2354.432	1061.942
chr6	18575	AK029531	Pde1c	Mus musc	591.9775	98.5195	101.8521
chr16	212517	AK078103	Wdr52	Mus musc	188.0435	13.6569	15.4792
chr15	320516	AK043153	A730060N	Mus musc	60.333	9.3388	7.2342
chr2	12296	AK078220	Cacnb2	Mus musc	280.3655	18.7447	25.6811
chrX	109904	AB101616	Mcf2	Mus musc	195.3307	23.626	20.7376
chr14	1E+08	EF651823	ENSMUSG	Mus musc	5743.91	992.2155	749.9335
chr8	74356	AK049007	4931428FC	Mus musc	1528.658	263.2054	264.1607
chr4	67149	AK013162	Nkain1	Mus musc	2353.922	200.175	287.8301
chr10	72480	BC017540	Tspyl4	Mus musc	19907.84	2042.06	2301.8
chr6	15402	BC011063	Hoxa5	Mus musc	18202.95	3154.409	3085.505
chr2	58237	EF058056	Nkain4	alt 'AB030	1235.526	145.8615	214.3331
chr18	93889	BC099958	Pcdhb18	Mus musc	202.7335	22.0832	35.2343
chr4	212190	BC027099	Ubxn10	Mus musc	218.8595	24.5301	25.1483
chr6	114142	BC062926	Foxp2	Mus musc	1799.864	254.2795	313.1655
chr5	320827	AK030106	C530008M	Mus musc	6311.738	501.3235	1098.917
chr1	71096	AK083241	Sntg1	Mus musc	52.4139	6.4682	9.1271
chr11	71860	BC118541	Wdr16	Mus musc	573.1295	99.8515	99.5795
chr17	12815	BC140439	Col11a2	Synthetic	2504.49	355.2895	436.4015
chr1	18071	BC051018	Nhlh1	Mus musc	3259.865	540.1275	568.2435
chr10	77220	AK048673	Tmem200a	Mus musc	1275.936	119.5011	222.5175
chr3	70762	AK082633	Dclk2	Mus musc	270.5775	26.6844	47.2058
chr16	N/A	BC146592	N/A	Synthetic	866.3932	151.2183	113.5468
chr14	545001	EF651798	ENSMUSG	Mus musc	8166.46	1425.502	1088.868
chr2	20910	BC031728	Stxbp1	Mus musc	17876.57	2390.28	2882.212
chr7	23859	AK039754	Dlg2	Mus musc	4931.57	816.4935	861.8495
chr2	77015	BC020182	Mpped2	Mus musc	23466.73	2766.339	4101.992
chr1	280645	BC058082	B3gat2	Mus musc	3333.848	352.2395	368.5575
chr10	268297	AK040597	Scml4	Mus musc	1487.878	245.4675	261.2595
chr3	17112	BC083073	Tm4sf1	Mus musc	72.0976	9.9463	10.6599
chrX	245596	BC116300	Hdx	Mus musc	1089.291	83.1335	191.4155
chr1	12839	AK011547	Col9a1	Mus musc	1588.004	105.6215	279.3415
chr7	27493	DQ656357	D0Kist2	Mus musc	69.3251	9.4553	12.1958
chr2	N/A	AK030357	N/A	Mus musc	102.0264	17.9554	14.4057

chr2	N/A	AK044354	N/A	Mus musc	42.7546	6.9228	6.5663
chr2	N/A	XM_00147	N/A	PREDICT	126.7024	12.5867	18.2397
chr15	20273	AY510078	Scn8a	Mus musc	97.3795	8.5213	7.2473
chr14	14169	BC107004	Fgf14	Mus musc	2198.754	388.6715	150.7615
chr1	329274	BC116972	Fam163a	Mus musc	695.7649	97.3755	119.4975
chr17	54393	AK156397	Gabbr1	Mus musc	12649.45	1501.796	1965.914
chr3	N/A	AK018134	N/A	Mus musc	1043.584	184.9815	168.7315
chr14	545001	EF651836	ENSMUSC	Mus musc	4909.294	870.7679	803.4755
chr5	74051	AK166162	Steap2	Mus musc	453.9015	37.7144	80.5215
chr10	72480	BC030922	Tspyl4	Mus musc	19204.62	2003.054	2369.634
chr10	268297	AK047972	Scml4	Mus musc	747.1615	132.5875	128.6495
chr14	1E+08	EF651818	ENSMUSC	Mus musc	6055.982	1074.702	833.8695
chr1	1E+08	XM_00147	Gm2149	PREDICT	246.959	32.8715	43.8332
chr2	269389	NM_00109	Tox2	Mus musc	1732.118	286.4955	307.5015
chr2	228911	BC079877	Tshz2	Mus musc	1731.34	307.6015	293.9255
chr16	14432	BC080758	Gap43	Mus musc	24621.65	4253.852	4381.59
chr3	N/A	BC002224	N/A	Mus musc	142.6986	25.415	12.668
chr13	218194	AK139452	Phactr1	Mus musc	5581.998	669.5329	994.2355
chr2	18549	BC052013	Pcsk2	Mus musc	10798.41	1924.496	1626.946
chr3	319830	AK141588	1500004A	Mus musc	2636.042	422.5095	470.2415
chr18	93881	BC112378	Pcdhb10	Mus musc	607.5775	58.5881	108.4215
chr8	72185	BC046622	Dbndd1	Mus musc	2311.767	294.4551	412.5501
chr3	213582	BC148584	Mtap9	Synthetic	3636.294	629.4395	649.4655
chr11	13447	BC067030	Doc2b	Mus musc	944.7015	103.2895	168.8447
chr7	232969	BC024802	Zfp428	Mus musc	6241.706	959.0547	1115.604
chr7	20450	BC096546	St8sia2	Mus musc	13667.37	1316.966	2444.637
chr7	320360	AK138641	Ric3	Mus musc	1497.58	234.2995	268.0105
chr7	57776	NM_00110	Ttyh1	Mus musc	1197.428	117.8575	214.4435
chr7	N/A	AK163099	N/A	Mus musc	196.0866	16.2758	35.1169
chr14	545007	CT010181	ENSMUSC	Mus musc	6811.214	1220.362	938.3332
chr17	23984	AK147690	Pde10a	Mus musc	3957.082	693.9135	709.0089
chr9	17967	X14526	Ncam1	Mouse nc	4611.748	620.8475	826.6455
chr1	71141	AK016730	4933407L2	Mus musc	165.8086	13.9663	29.73
chr15	66656	AK006403	Eef1d	Mus musc	1650.164	264.714	296.8775
chr10	18390	AY923183	Oprm1	alt 'MOP-F	115.7295	20.8596	10.9044
chr3	399673	BC156840	Tdpoz2	Synthetic	38.2514	6.8952	4.6469
chr6	259302	AK051262	Srgap3	Mus musc	5791.023	888.5508	1044.832
chr2	18516	BC057879	Pbx3	Mus musc	13120.72	2237.856	2369.166
chr6	18575	BC032277	Pde1c	Mus musc	665.6788	95.4415	120.3075
chr2	14415	AK047521	Gad1	Mus musc	1168.963	95.9488	95.5759
chrX	14758	AK013660	Gpm6b	Mus musc	536.0835	74.0275	96.901
chrX	236915	AK163874	Arhgef9	Mus musc	96.3095	14.7018	17.4102
chr5	667705	XM_99196	Gm8773	PREDICT	878.4755	104.9995	158.8775
chr5	1E+08	AK165889	Gm10419	Mus musc	81.0235	12.6394	10.9614
chr1	94332	AK036352	Cadm3	Mus musc	195.6895	13.3719	14.6113
chr3	22065	AK080619	Trpc3	Mus musc	1828.383	251.4455	330.9579
chr5	66236	XM_00147	1500011B	PREDICT	9217.07	1657.746	1668.612
chr13	218194	AY993932	Phactr1	alt '96300	5242.909	714.7695	949.1735
chr11	56089	BC024765	Ramp3	Mus musc	4738.938	694.4775	858.4995
chr5	75136	XM_20556	Rsph10b2	PREDICT	1126.041	173.7595	204.4895
chr1	18387	BC119026	Oprk1	Mus musc	100.5875	16.7049	18.2778
chr14	320333	AK082998	D830030K	Mus musc	1270.588	231.1095	110.1055
chr14	105439	BC079866	Slain1	Mus musc	1598.22	112.6175	290.7458



chrX	245440	XM_00147	Gm4988	PREDICT	185.6115	33.8057	22.6023
chr6	13807	BC009018	Eno2	Mus musc	4723.764	579.7595	860.5615
chr15	239405	BC152876	Rspo2	Synthetic	526.4575	48.6524	96.0035
chr5	11576	BC066206	Afp	Mus musc	715.7995	11.2625	130.7335
chr2	74711	BC148285	Ttl9	Mus musc	151.5116	18.0538	16.143
chr10	11994	DQ354415	Pcdh15	Mus musc	288.9815	12.6235	52.8569
chr3	22239	X92122	Ugt8a	M.musculu	1260.562	180.0535	230.609
chr9	102747	AK082406	Lrrc49	Mus musc	164.4925	23.0162	22.7364
chr9	67703	AK163514	Kirrel3	Mus musc	48.2058	8.6222	8.8323
chr18	211961	AK082659	Asxl3	Mus musc	2775.673	327.1932	508.8635
chr18	140492	AK033158	Kcnn2	Mus musc	338.1555	19.5728	62.0145
chr1	94332	BC079837	Cadm3	Mus musc	18815.06	2628.726	2540.818
chr4	230904	BC046586	Fbxo2	Mus musc	529.3905	97.1239	94.0055
chr19	58178	AF137367	Sorcs1	Mus musc	3930.426	505.3967	721.3955
chr7	N/A	XM_00147	N/A	PREDICT	194.3455	28.0444	35.6841
chr7	1E+08	XM_00147	Gm2995	PREDICT	315.4715	26.2468	25.0405
chr7	18987	BC105920	Pou2f2	Mus musc	1087.076	186.9648	199.7235
chr9	12903	BC065787	Crabp1	Mus musc	9553.094	756.7775	1756.81
chr1	18387	S81111	Oprk1	alt 'KOR#	117.3155	13.092	21.6034
chr1	26381	BC082324	Esrrg	Mus musc	2243.644	413.4555	134.6217
chr7	404705	XM_99429	Prkcz2	PREDICT	1579.267	218.4194	267.4055
chr15	18574	BC058531	Pde1b	Mus musc	749.7816	138.3295	132.2555
chr3	229320	BC132254	Clrn1	Mus musc	239.3915	13.387	44.2307
chr9	102614	BC016085	Rpp25	Mus musc	822.9631	125.2855	152.1055
chr6	15403	BC119105	Hoxa6	Mus musc	4199.906	521.2475	776.6715
chr17	224997	BC094369	Dlgap1	Mus musc	626.3215	115.9024	97.9955
chr15	239364	NM_00108	Tspyl5	Mus musc	1725.727	273.4715	319.3755
chr5	50791	XM_00100	Magi2	PREDICT	1487.754	192.0347	275.5935
chr9	208583	AK054237	Nek11	Mus musc	202.1942	32.4268	37.4627
chr13	13865	BC108408	Nr2f1	Mus musc	9665.76	1793.118	1235.962
chr1	26381	AK052731	Esrrg	Mus musc	2230.786	413.8735	124.7659
chr16	14805	AK046122	Grik1	Mus musc	135.6795	25.1902	17.3407
chr3	22239	BC016885	Ugt8a	Mus musc	752.4275	82.8495	139.7255
chr9	331000	XM_28793	Plscr5	PREDICT	114.1375	21.2256	16.0166
chr9	235380	XM_35838	Dmnl2	PREDICT	5744.318	863.4075	1068.842
chr2	78774	BC058733	4930529M	Mus musc	63.6752	11.852	11.1023
chr2	18795	BC058710	Plcb1	Mus musc	4042.864	697.6859	752.7295
chr4	666920	XM_98701	Gm8364	PREDICT	456.9595	73.2675	85.1475
chr13	238725	BC118612	Gpr150	Mus musc	185.6435	34.5933	15.8445
chr7	210162	AK080486	Zkscan2	Mus musc	86.4835	11.2625	16.1247
chr10	12813	BC156192	Col10a1	Synthetic	191.0755	21.8675	15.0942
chr1	16524	BC065161	Kcnj9	Mus musc	143.2515	26.7384	18.8299
chr1	381310	BC120654	6330403A	Mus musc	2579.777	330.6555	481.7475
chr5	68955	BC024130	Srrm4	Mus musc	1701.747	146.3855	184.1095
chr9	72022	BC055843	Slc35f2	Mus musc	515.4555	57.9292	95.4231
chr4	72535	BC020001	Aldh1b1	Mus musc	1213.466	143.0447	191.8031
chr5	50791	AK147530	Magi2	Mus musc	2298.624	330.0175	430.0935
chr3	108058	AK082124	Camk2d	Mus musc	336.0664	14.1659	33.5008
chr10	15166	BC156149	Hcn2	Synthetic	575.1544	61.6526	51.6689
chrX	382245	AK018228	Tmem29	Mus musc	380.4555	50.645	70.3793
chr2	18111	AB004048	Nnat	Mus musc	25836.45	2318.604	2267.706
chr17	320722	AK039494	A330050F	Mus musc	69.7896	12.6221	13.0858
chr4	73721	DQ873296	1110017D	alt 'Cbe1#	252.7115	38.0164	47.403

chr7	80297	AB055620	Spnb4	Mus musc	2430.62	339.8595	456.0175
chr2	18516	AK144363	Pbx3	Mus musc	13760.31	2351.934	2581.932
chr15	320865	AK045672	Cdh18	Mus musc	32.6537	6.0628	5.8049
chrX	245555	AK054513	C77370	Mus musc	2847.15	378.2564	535.0304
chr3	22065	AK163714	Trpc3	Mus musc	1592.134	233.8515	299.7195
chrX	14853	BC117825	Gspt2	Mus musc	3795.238	678.3895	716.3299
chr10	18390	AF074974	Oprm1	alt 'MOP-F	200.4955	19.8145	17.7376
chr14	50759	BC086690	Fbxo16	Mus musc	559.1141	105.5695	94.9655
chrX	245578	AY861430	Pcdh11x	alt 'A2300	217.6515	29.6165	41.1034
chr19	N/A	AK085625	N/A	Mus musc	86.6088	9.1605	8.596
chr5	52850	AK051018	Sgsm1	Mus musc	125.2775	23.6795	22.6539
chr7	81904	AK032173	Cacng7	Mus musc	7892.716	1482.008	1492.711
chr1	94332	BC115417	Cadm3	Mus musc	5996.184	756.1275	770.7955
chr7	434128	NM_00109	Pnmal2	Mus musc	6025.81	985.6941	1139.812
chr5	317755	BC099399	Zar1	Mus musc	275.7995	34.6533	52.3107
chr7	70974	BC032150	Pgm2l1	Mus musc	1325.809	158.7055	251.5155
chr7	70974	BC076571	Pgm2l1	Mus musc	2639.272	329.4835	501.2995
chr7	18987	X57939	Pou2f2	Mouse mF	1188.64	185.3186	226.0695
chr1	329217	AK035520	Gm5101	Mus musc	104.7795	13.4667	19.9311
chr12	12709	BC015271	Ckb	Mus musc	7822.384	1241.114	1488.096
chr11	217154	BC024864	Stac2	Mus musc	2292.399	190.6575	217.4475
chr19	19773	BC132654	Rln1	Mus musc	253.7575	46.3213	40.4408
chrX	406217	BC090663	Bex4	Mus musc	4616.364	767.7415	880.1495
chr7	76484	AK090282	Kndc1	Mus musc	352.6075	42.4726	45.5987
chr10	22781	AB017615	Ikzf4	Mus musc	981.5415	169.1406	187.6162
chr7	338352	BC156969	Nell1	Synthetic	4311.574	448.037	824.6095
chr15	239618	XM_99221	Pdzrn4	PREDICT	1418.832	44.287	79.4395
chr17	116871	AK158866	Mta3	Mus musc	2110.917	404.7371	302.311
chr14	554327	AK011748	2610042L0	Mus musc	5796.549	1111.856	707.7348
chr7	60510	BC132495	Syt9	Mus musc	1019.357	176.3095	195.6397
chr8	57340	AK046136	Jph3	Mus musc	520.5315	52.5054	57.9361
chr2	16519	BC103674	Kcnj3	Mus musc	1863.584	139.4755	357.8915
chr4	230775	AK147485	Bai2	Mus musc	14824.48	2194.998	2847.844
chr3	20766	BC125629	Spr3	Mus musc	53.9295	10.3628	8.6084
chr9	22774	AK163477	Zic4	Mus musc	215.4535	27.3208	41.4964
chr7	18987	BC105647	Pou2f2	Mus musc	1256.708	242.2935	194.2655
chr6	14804	AK045348	Grid2	Mus musc	81.534	13.2734	15.7213
chr7	232969	AK080517	Zfp428	Mus musc	782.5135	137.4075	150.9235
chr7	1E+08	XM_00148	Gm4590	PREDICT	74.6075	11.2054	14.3906
chr7	11785	AF206720	Apbb1	Mus musc	12043.18	1780.234	2324.69
chr2	381413	BC052037	Gpr176	Mus musc	902.913	75.9503	174.6415
chr15	271278	AK081549	BC024139	Mus musc	417.2455	76.4994	32.0638
chr10	75906	AK015334	Fam184a	Mus musc	344.9915	54.9943	66.8138
chr14	1E+08	EF651834	ENSMUSG	Mus musc	6298.806	1223.077	1075.457
chr5	194309	AK158287	Vps37d	Mus musc	3439.872	490.497	668.8381
chr12	319504	BC060532	Nrcam	Mus musc	7622.64	555.7556	813.9055
chr4	654318	AK164083	C530005A	Mus musc	756.3535	90.0535	96.8395
chr6	13396	NM_01005	Dlx6	Mus musc	381.9008	74.5795	45.026
chr2	16519	BC068167	Kcnj3	Mus musc	1147.326	65.7726	224.6575
chr14	1E+08	BC040090	LOC10003	Mus musc	4195.44	822.6395	538.2391
chr8	319555	BC082552	Nwd1	Mus musc	74.5619	14.6209	11.1153
chr2	108699	BC010825	Chn1	Mus musc	11040.94	2043.774	2168.709
chr3	18526	NM_00109	Pcdh10	Mus musc	12719.65	1283.151	2499.912

chr4	12540	L78075	Cdc42	Mus musc	4559.618	553.9695	595.3547
chr14	1E+08	EF651841	Gm3642	Mus musc	6413.878	1263.47	785.9497
chr14	1E+08	XM_00147	Gm3269	PREDICT	1425.546	280.8435	181.1235
chr6	67401	AK019564	4930431A	Mus musc	42.7123	7.9568	8.4188
chr9	442818	XM_00148	9430025E	PREDICT	159.9435	31.5629	30.5876
chr2	99031	AK037703	Osbp16	Mus musc	1937.039	226.4327	344.9615
chr2	108699	AB264772	Chn1	Mus musc	11752.44	1934.954	2319.584
chr7	1E+08	XM_00147	Gm4227	PREDICT	140.5315	26.075	27.7426
chr13	21984	BC099391	Tpbpa	Mus musc	77.3935	15.2841	9.555
chrX	93837	AK038687	Dach2	Mus musc	256.9135	18.5142	50.7688
chr15	223726	AK031750	Mpped1	Mus musc	2123.266	393.2095	419.6675
chr7	117229	BC127158	Stk33	Mus musc	356.1355	46.8868	70.4056
chr15	69700	XM_98188	Col22a1	PREDICT	238.2115	24.7475	41.6051
chr11	217125	BC034054	Samd14	Mus musc	11064	1570.672	2190.784
chr14	1E+08	XM_00147	Gm3029	PREDICT	1832.13	362.8159	239.6035
chr4	1E+08	XM_00147	Zkscan16	PREDICT	647.9516	83.1439	128.4452
chr6	269784	NM_00110	Cntn4	Mus musc	1396.379	117.0503	277.3175
chr6	665037	XM_97410	Gm7457	PREDICT	42.4852	8.4419	7.9279
chrX	18481	U39738	Pak3	Mus musc	10783.53	1992.116	2143.452
chr17	320722	XM_89742	A330050F	PREDICT	86.2435	13.6476	17.1545
chrX	209005	NM_00108	Gm595	Mus musc	32.0099	6.3736	6.0179
chr9	235380	AK053672	Dmxl2	Mus musc	5736.104	1133.797	1142.422
chr1	22625	XM_00147	Ysk4	PREDICT	149.7012	29.8402	15.9045
chr9	15561	NM_00109	Htr3a	Mus musc	103.0395	20.5434	19.3688
chr14	11500	AK164965	Adam7	Mus musc	107.4355	21.4333	13.1262
chr16	268890	BC148517	Lsamp	Synthetic	5306.066	491.9095	1059.258
chr2	16519	BC103672	Kcnj3	Mus musc	1923.392	164.3135	384.0935
chr4	110351	BC052065	Rap1gap	Mus musc	4787.291	958.7335	516.4755
chrX	245555	AK220439	C77370	Mus musc	3403.956	399.3759	682.4775
chr18	71367	BC107361	Chst9	Mus musc	66.4879	8.3511	13.3383
chr6	665180	XM_97510	Clec2l	PREDICT	1068.392	192.0375	214.4975
chrX	20977	AK034291	Syp	Mus musc	71.2476	14.3175	11.5586
chrX	18481	AK031853	Pak3	Mus musc	10347.64	1943.536	2080.292
chr15	223726	AK158740	Mpped1	Mus musc	1920.113	361.3875	386.3735
chr9	22774	AK046913	Zic4	Mus musc	582.5215	80.7358	117.2355
chr9	235402	AL358753	Lingo1	Mus musc	4887.586	708.6495	984.0735
chr7	232975	BC020177	Atp1a3	Mus musc	1092.658	84.4015	63.1263
chr10	N/A	AK189057	N/A	Mus musc	713.7075	143.7955	120.6746
chr15	105727	BC066815	Slc38a1	Mus musc	238.4555	25.4769	48.0439
chr7	16504	BC156432	Kcnc3	Synthetic	2543.288	508.4815	512.5135
chr15	69700	AK010095	Col22a1	Mus musc	479.8795	41.1816	96.8881
chr12	664883	XM_00147	Nova1	PREDICT	247.1384	9.1804	11.9131
chr16	320007	BC025888	Sidt1	Mus musc	128.7358	9.9879	19.8851
chr6	330286	AK128948	D630045J	Mus musc	1660.476	223.2875	335.4635
chr11	13384	BC062642	Mpp3	Mus musc	3032.638	554.6477	613.5836
chr6	330286	AK085604	D630045J	Mus musc	918.9255	141.4035	185.9768
chr8	104271	BC063106	Tex15	Mus musc	2679.425	376.7835	543.0575
chr14	1E+08	EF651816	ENSMUSC	Mus musc	5163.694	1046.667	696.7955
chr7	56868	BC148473	Psg23	Synthetic	74.9695	15.1976	9.6007
chr7	546024	AY593966	Crxos1	Mus musc	87.0035	17.6409	11.3097
chr17	107971	BC014819	Frs3	Mus musc	5305.412	1075.894	1002.906
chr3	74343	BC019713	Crtc2	Mus musc	3717.827	755.2055	641.5231
chr2	1E+08	XM_00147	Gm3088	PREDICT	167.9779	33.0394	34.1303

chr1	16524	AK015907	Kcnj9	Mus musc	74.6975	15.1776	10.6936
chr9	64085	AK048369	Clstn2	Mus musc	1258.528	169.3375	255.7395
chr8	72632	AK012595	2700090O	Mus musc	625.2795	64.5921	98.6484
chrX	245469	AK046101	Pdzd4	Mus musc	1926.624	298.1415	392.1285
chr7	74004	AK220482	Jakmip3	Mus musc	294.9755	44.686	19.9131
chr17	224997	AK036307	Dlgap1	Mus musc	74.7095	15.2285	12.5229
chr3	80883	AK134467	Ntng1	Mus musc	1180.868	138.4975	240.7815
chr14	16531	EF473653	Kcnma1	alt 'MaxiK	1230.825	163.1415	250.9957
chr2	269397	BC053087	Ss18l1	Mus musc	4191.607	614.3889	635.7615
chr14	666329	XM_98867	Gm8050	PREDICTI	891.8155	182.3551	52.8089
chr6	18575	AK050499	Pde1c	Mus musc	623.7275	73.0096	127.6555
chr6	320405	BC047394	Cadps2	Mus musc	1339.514	274.6837	237.5035
chr9	20897	BC075657	Stra6	Mus musc	1445.528	41.7733	34.5408
chr3	242259	BC068154	Slc44a5	Mus musc	574.5595	117.9155	97.8912
chr2	329372	XM_00147	D2Bwg142	PREDICTI	1711.203	248.7595	351.4535
chr2	99326	BC132143	Garnl3	Mus musc	1965.278	403.8959	354.1578
chr4	230863	BC036961	Sh2d5	Mus musc	638.6635	61.6717	71.5276
chrX	552913	AK036020	LOC55291	Mus musc	241.8655	35.3494	49.7334
chr3	13175	AK018970	Dcl1	Mus musc	8793.223	1074.428	1809.948
chr1	269152	BC120791	Kif26b	Mus musc	3202.824	527.4324	659.4175
chr3	68312	BC051924	Gstm7	Mus musc	3394.612	699.5313	608.9795
chr19	18190	AK162611	Nrxn2	Mus musc	104.2295	13.6037	21.4933
chr9	235281	AK051805	Scn3b	Mus musc	614.0915	93.8686	126.7475
chr13	26946	BC117995	Trpc7	Mus musc	47.1089	9.7259	7.6165
chr11	18377	BC024757	Omg	Mus musc	510.1335	60.5129	105.4235
chr12	544888	XM_61902	Fam181a	PREDICTI	213.9455	38.3439	29.0938
chr1	319455	AK136851	Pld5	Mus musc	270.5115	37.1001	56.0314
chr19	58178	AF284755	Sorcs1	Mus musc	47.4173	9.4704	9.637
chr7	72242	BC100325	Psg21	Mus musc	182.6695	37.8594	32.4447
chr5	320827	AK013453	C530008M	Mus musc	943.6619	128.7531	195.6675
chrX	320606	AK038525	3632454L2	Mus musc	130.0535	18.5477	15.9087
chr10	11994	AK080816	Pcdh15	Mus musc	186.3375	16.8501	38.6493
chr14	50769	AK162567	Atp8a2	Mus musc	2366.382	334.8356	434.9255
chr15	11434	BC103579	Acr	Mus musc	260.3655	54.0134	51.2318
chr6	74342	AK053364	Lrrtm1	Mus musc	3515.238	523.5155	730.5549
chr11	13385	NM_00110	Dlg4	Mus musc	16131	2471.522	3353.276
chr6	259302	AK122276	Srgap3	Mus musc	7647.026	1018.018	1590.022
chr4	67344	BC099549	Tctex1d1	Mus musc	42.6568	8.3171	8.879
chr18	N/A	AK089155	N/A	Mus musc	61.7966	12.8659	10.1402
chr6	269784	BC115766	Cntn4	Mus musc	4711.616	283.5984	981.0955
chr19	30049	AK015784	Scd3	Mus musc	433.2355	75.7015	46.9068
chr12	74691	BC115831	Tdrd9	Mus musc	70.5556	14.7197	14.1367
chr4	12395	AK032132	Runx1t1	Mus musc	7091.44	800.8155	1479.998
chrX	110380	DQ358971	Shroom2	Mus musc	6285.64	1264.174	1312.334
chr2	229011	BC019475	Samd10	Mus musc	2440.884	395.5175	383.2602
chr11	216613	BC066065	Ccdc85a	Mus musc	524.1835	109.5955	47.6711
chr6	20965	NM_00111	Syn2	Mus musc	336.0055	70.2636	64.2581
chr18	93883	BC127609	Pcdhb12	Mus musc	342.7455	38.1282	71.6759
chr15	75951	AK016307	4930578M	Mus musc	437.3895	88.7475	91.4975
chr11	75429	BC061254	Fam183b	Mus musc	137.1202	16.4095	28.6917
chr2	668917	AK137157	OTTMUSC	Mus musc	726.4015	149.2975	151.9975
chr2	329372	BC094334	D2Bwg142	Mus musc	2605.808	331.8275	545.4864
chr4	16975	AK076555	Lrp8	Mus musc	272.2355	53.2244	32.0099



chr13	218194	BC061691	Phactr1	Mus musc	5466.204	744.1485	1146.268
chr11	237831	BC156117	Slc13a5	Synthetic	269.4515	56.6029	35.0577
chr1	N/A	BC056189	N/A	Mus musc	67.8518	12.0907	11.8729
chr4	72395	AK083757	2610028E	Mus musc	98.5384	19.6252	18.0225
chrX	107528	BC059039	Magee1	Mus musc	11086.09	1630.525	2335.452
chr7	101809	BC062119	Spred3	Mus musc	2017.106	352.4975	425.6209
chr4	1E+08	XM_00147	Gm3576	PREDICT	247.3175	34.7503	52.3197
chr2	1E+08	XM_00148	Gm4591	PREDICT	233.5394	49.422	47.5125
chr16	106369	AK006137	Ypel1	Mus musc	2855.483	586.1793	604.3195
chr17	72578	BC068229	2700054A	Mus musc	1259.832	150.2935	266.6695
chr19	225861	AK047234	Snx32	Mus musc	4735.998	853.9395	878.2915
chr17	16867	BC140438	Lhcgr	Synthetic	63.3133	10.7095	12.758
chrX	331474	BC132391	Rgag4	Mus musc	2597.798	422.3339	551.3815
chr7	269881	BC152824	Map3k10	Synthetic	3942.744	675.918	838.0795
chr15	15424	BC115551	Hoxc5	Mus musc	4054.9	724.3655	862.0138
chr6	319352	AK148352	C530028O	Mus musc	2028.694	257.3455	432.1527
chr2	17536	AJ000504	Meis2	Mus musc	9438.624	1649.706	2014.041
chr16	268860	AK036128	Abat	Mus musc	8657.852	1502.679	1848.317
chr7	320360	BC059258	Ric3	Mus musc	1122.792	219.5255	239.7015
chr5	52850	AK170021	Sgsm1	Mus musc	925.5402	126.1974	152.0715
chr11	237806	AK030981	Dnahc9	Mus musc	90.0255	19.2417	12.5852
chr9	320528	AK129486	Vps13c	Mus musc	1084.912	123.7244	98.8295
chr6	666387	XM_98352	Gm8076	PREDICT	94.4119	20.0617	20.2063
chr14	1E+08	EF651806	LOC10003	Mus musc	7122.896	1524.93	878.4539
chr2	329540	BC075648	8430427H	Mus musc	3677.254	787.3835	696.3355
chr2	94217	AK035795	Lrp1b	Mus musc	317.4715	60.8708	44.3918
chr14	666918	XM_00147	Gm8362	PREDICT	1661.381	356.6655	236.7955
chrX	110380	AK032256	Shroom2	Mus musc	5601.232	983.6609	1203.188
chr5	320827	AK050000	C530008M	Mus musc	6426.486	592.7335	1383.054
chr1	94332	BC115418	Cadm3	Mus musc	5526.5	747.0275	711.4175
chr4	230085	AK122428	N28178	Mus musc	6909.836	1223.796	1186.225
chr4	329941	BC080317	Col8a2	Mus musc	1860.432	262.8395	341.3615
chrX	245555	BC156046	C77370	Synthetic	4496.04	579.0495	969.0184
chr17	622645	XM_88708	Tmem200c	PREDICT	149.0715	32.1535	21.0121
chr6	210673	AK045491	Prrt3	Mus musc	158.8798	34.2793	19.9131
chr11	15414	BC016893	Hoxb6	Mus musc	2938.428	345.7115	525.3015
chr9	235380	BC023075	Dmxl2	Mus musc	5849.134	914.0875	1263.47
chr2	668929	XM_00100	Gm14160	PREDICT	36.5636	7.8993	6.8941
chr9	235044	BC018242	BC018242	Mus musc	14645.62	2451.784	3164.75
chr5	319807	AK034089	3110047P	Mus musc	192.1964	19.9507	25.9988
chr12	14226	AB107918	Fkbp1b	Mus musc	1885.072	287.7627	407.6095
chr4	13841	BC026153	Epha7	Mus musc	7323.869	998.3975	1584.722
chr7	20231	BC139757	Nkx1-2	Mus musc	101.7525	21.2671	10.4036
chr2	70882	AK041744	Armc3	Mus musc	207.2255	36.2355	45.1012
chr2	654793	AK144367	G630016G	Mus musc	94.4972	14.364	18.1781
chr19	N/A	AF087578	N/A	Mus musc	133.2115	29.0021	20.3237
chr9	56808	BC056389	Cacna2d2	Mus musc	11930.94	1673.052	2599.787
chr4	77963	AK049897	Hook1	Mus musc	124.5603	12.3508	25.6811
chr7	104175	BC024114	Sbk1	Mus musc	17271.82	3662.46	3768.404
chr1	11905	BC019447	Serpinc1	Mus musc	231.2955	31.7042	50.4694
chr2	76829	BC066822	Dok5	Mus musc	4526.637	828.1233	988.0535
chr1	240697	XM_97517	6030422M	PREDICT	42.0386	8.1366	9.179
chr4	329941	BC065148	Col8a2	Mus musc	2251.146	315.4915	344.7656

chr6	N/A	DD090738	N/A	A gene w	1556.386	340.3595	275.4555
chrX	93837	AK033050	Dach2	Mus musc	48.346	7.5301	10.5755
chr10	18390	AY160190	Oprm1	Mus musc	147.0715	14.8489	13.7498
chr7	101809	BC052757	Spred3	Mus musc	1300.258	275.4855	284.7492
chr17	1E+08	XM_00147	Gm4134	PREDICT	50.5321	7.5412	11.0759
chr5	22255	AK082472	Uncx	Mus musc	595.9352	83.1225	52.8089
chr10	74978	BC051400	Lrriq1	Mus musc	58.5786	12.8486	12.4555
chr2	99326	AK036258	Garnl3	Mus musc	2831.75	621.7852	559.3295
chr12	382571	BC053089	Kcnf1	Mus musc	799.3095	169.1535	175.9215
chr15	67057	AK012787	Yaf2	Mus musc	305.4155	34.0955	67.3163
chr8	234593	BC006595	Ndrq4	Mus musc	19686.16	3322.614	4339.874
chr7	414087	AK163121	A330068G	Mus musc	688.6055	151.8115	115.1895
chr2	18795	AF498250	Plcb1	Mus musc	6428.716	1417.514	1409.546
chr5	320827	XM_28746	C530008M	PREDICT	911.1495	38.7653	201.2875
chr2	78774	BC107030	4930529M	Mus musc	54.3295	10.9238	12.0027
chr10	18390	EF105312	Oprm1	alt 'MOP-F	127.5695	12.7403	12.0598
chr7	233879	AK134834	Asphd1	Mus musc	525.9345	62.8083	56.4391
chr10	18101	BC119237	Nmbr	Mus musc	219.6829	24.356	41.8745
chr16	224090	BC059216	Tmem44	Mus musc	3425.668	737.5022	759.0759
chr5	207686	AK029545	A330021E	Mus musc	424.6943	42.9979	94.1136
chr9	208076	BC050865	Pknox2	Mus musc	3348.16	445.6383	741.9955
chr15	105727	AK050914	Slc38a1	Mus musc	10638.9	1856.398	2358.904
chr5	N/A	AK043184	N/A	Mus musc	30.2525	6.7101	6.0138
chr14	219228	BC089004	Pcdh17	Mus musc	2704.76	600.0007	477.1888
chr11	22370	BC012690	Vtn	Mus musc	4577.1	971.2913	1015.958
chrX	245522	BC119285	Zc4h2	Mus musc	6371.058	1040.822	1414.556
chr8	628686	AK136164	LOC62868	Mus musc	85.7635	9.9576	19.043
chr14	1E+08	XM_00147	Gm3029	PREDICT	2188.004	486.9015	310.1855
chr3	1E+08	BC040255	583041711	Mus musc	3576.928	698.6541	796.1415
chr5	104443	BC156702	Npffr2	Synthetic	110.2351	24.5388	14.3434
chr5	19699	AB246391	Reln	Mus musc	61.3807	9.7866	13.671
chrX	635253	AK132077	Usp51	Mus musc	239.7187	45.8079	53.3942
chr10	216343	BC120514	Tph2	Mus musc	61.2207	8.2616	13.6375
chr16	268860	BC058521	Abat	Mus musc	4676.08	755.1125	1045.67
chr1	93690	AK020337	Gpr45	Mus musc	487.6255	75.0175	109.0675
chrX	75693	AK013876	3010001F2	Mus musc	948.5778	113.6595	212.2875
chr15	105833	BC060155	Ccdc65	Mus musc	81.2884	13.4023	18.2021
chr14	26419	AK039254	Mapk8	Mus musc	1515.814	235.3055	339.5615
chr16	106369	BC049737	Ypel1	Mus musc	3529.828	726.5975	790.7795
chr3	192167	AK083116	Nlgn1	Mus musc	310.0702	44.865	51.6647
chr6	212516	NM_00111	BC060267	Mus musc	215.2935	43.7995	48.2996
chr2	52837	BC054558	Tmx4	Mus musc	10504.99	2062.178	2359.182
chr3	329782	AK083124	4930570G	Mus musc	51.8806	11.2959	9.9629
chr9	235044	AK082453	BC018242	Mus musc	12527.9	2411.547	2816.792
chr14	1E+08	EF651807	LOC10003	Mus musc	6962.74	1565.704	1013.82
chr14	16531	AF465244	Kcnma1	alt 'MaxiK	3416.452	540.6155	768.3089
chrX	333605	AK147440	Frmpd4	Mus musc	30.1281	5.3371	6.795
chr9	244694	BC152815	Kdm4d	Synthetic	153.7356	33.3388	34.6922
chr10	15468	AK146754	Prmt2	Mus musc	5803.03	1136.264	1103.094
chrX	245522	BC050850	Zc4h2	Mus musc	2707.244	394.5335	612.3175
chrX	93761	AK038470	Smarca1	Mus musc	1034.404	141.5813	233.9775
chr14	218772	X56569	Rarb	Mouse RA	398.0115	62.5663	90.0455
chr14	14180	AK158584	Fgf9	Mus musc	1060.9	173.0734	240.209



chr14	1E+08	XM_00147	Gm10408	PREDICT	1449.112	328.2563	136.1855
chr16	14432	BC028288	Gap43	Mus musc	17644	3494.446	3999.54
chr11	76884	AK147224	Cyfp2	Mus musc	12470.23	1836.592	2381.594
chr14	338370	AK039034	Nalcn	Mus musc	51.6619	11.7192	9.3355
chr9	74100	AK050613	Arpp21	Mus musc	67.1598	9.6224	15.24
chr6	232345	BC072642	A2m	Mus musc	253.1411	22.7922	57.4744
chr18	12942	AK139436	Pcdha11	Mus musc	42.5479	8.2133	9.6625
chr2	76960	AK031825	Bcas1	Mus musc	746.0119	152.7755	169.437
chrX	14758	S65737	Gpm6b	membrane	20700.75	3487.414	4710.131
chr9	N/A	AK043331	N/A	Mus musc	40.3027	8.2988	8.3236
chr2	80976	BC030907	Syt13	Mus musc	9334.095	1455.966	2125.219
chr10	380650	XM_00147	Gm5137	PREDICT	140.0075	31.8818	23.4645
chr14	1E+08	XM_00147	Gm3532	PREDICT	1010.324	230.2503	79.6155
chr4	230775	AK144559	Bai2	Mus musc	13009.52	1956.704	2965.064
chr3	229694	AK039146	Al504432	Mus musc	275.3895	15.8294	62.7697
chr2	329384	AK132137	Pthr1	Mus musc	360.4475	62.7652	82.1715
chr4	230903	AK019407	Fbxo44	Mus musc	357.5415	55.0189	81.5176
chr7	117229	AK014819	Stk33	Mus musc	367.5935	52.6552	83.9255
chr17	72578	AK012419	2700054A	Mus musc	398.336	71.5276	90.9515
chr14	544998	XM_00147	B930046C	PREDICT	1083.848	247.5415	135.8115
chr5	76798	AK049160	2410137F1	Mus musc	635.7375	121.7435	145.3767
chr6	212516	BC060267	BC060267	Mus musc	202.1415	23.1649	46.2337
chr2	12296	L20343	Cacnb2	Mus musc	1416.298	205.6075	323.993
chr5	140498	AK034592	Rxfp2	Mus musc	113.0475	25.8681	23.6708
chr4	12395	NM_00111	Runx1t1	Mus musc	6476.302	753.273	1482.299
chr11	67803	AK171794	Limd2	Mus musc	108.9295	12.9963	24.9442
chr10	216227	BC042593	Slc17a8	Mus musc	51.5212	9.3319	11.7547
chr9	110835	BC106839	Chrna5	Mus musc	438.0555	39.3777	100.5555
chr19	225861	BC048922	Snx32	Mus musc	4432.679	813.7875	898.2015
chr6	320405	AB291950	Cadps2	Mus musc	2209.829	507.6835	438.5076
chr4	69908	BC057173	Rab3b	Mus musc	5621.68	1167.753	1292.534
chr6	330286	BC054075	D630045J	Mus musc	1625.786	368.1755	373.8606
chr6	269784	AK163520	Cntn4	Mus musc	2120.998	138.0015	487.7955
chr6	21336	BC075631	Tacr1	Mus musc	434.0938	21.2922	24.7227
chr16	668168	XM_99471	Gm9017	PREDICT	86.0315	16.1037	13.1454
chr11	67826	BC029025	Snap47	Mus musc	8970.596	2035.687	2069.994
chr15	239405	AK049891	Rspo2	Mus musc	475.0007	40.6137	81.5835
chr9	270190	AK039530	Ephb1	Mus musc	97.8195	18.9442	22.6023
chr11	N/A	AK048292	N/A	Mus musc	121.1292	28.0014	13.2891
chr5	15285	BC132283	Mnx1	Mus musc	57.1626	11.8742	13.2346
chr14	N/A	AK147121	N/A	Mus musc	239.5795	29.1553	55.5378
chrX	13193	AK049050	Dcx	Mus musc	35.6841	6.0723	8.2856
chr14	75438	NM_02928	1700001E0	Mus musc	1530.953	355.9648	196.8615
chr4	69908	BC051918	Rab3b	Mus musc	312.9095	34.3574	72.8396
chr15	118452	BC150479	Baalc	Mus musc	717.8544	85.4042	167.2455
chr2	207182	AK131175	Ggt7	Mus musc	747.1615	120.5951	174.0755
chr8	71310	NM_00111	Tbc1d9	Mus musc	4598.178	910.3815	1071.624
chr9	208194	BC059920	Exog	Mus musc	849.9633	105.7095	198.4015
chr6	12311	BC119232	Calcr	Mus musc	583.2795	78.0135	136.1591
chr13	66970	AK049972	Ssbp2	Mus musc	203.8837	12.0771	47.5981
chr4	73332	AK006668	Ccdc30	Mus musc	202.0881	47.1902	36.6821
chr3	72634	BC057030	Tdrkh	Mus musc	2000.48	467.3216	443.6915
chr5	54216	AY861420	Pcdh7	alt '-'	5539.794	984.1384	1228.488

chr10	1E+08	XM_00147	Gm3877	PREDICT	791.5927	185.1708	130.5986
chr17	77652	AK032339	Zfp422-rs1	Mus musc	134.8755	21.8249	31.5629
chr10	432450	EF058050	Nkain2	alt '63305'	23.3235	5.0765	5.0945
chr9	192663	BC059033	Abcg4	Mus musc	1757.276	157.2235	228.3835
chr11	N/A	X68951	N/A	M.musculu	645.6774	96.4495	151.4155
chr18	212307	BC035254	Mapre2	Mus musc	9183.725	1213.036	2155.934
chr7	68952	AK005271	Fam57b	Mus musc	4128.519	495.1881	225.6695
chr17	224813	NM_00111	Gm88	Mus musc	241.9295	40.3257	57.1626
chr3	209601	BC145840	4922501L1	Mus musc	214.7484	17.0649	15.4061
chr9	75697	BC039571	C2cd4b	Mus musc	233.5511	38.6888	55.252
chr2	14415	AK054554	Gad1	Mus musc	47.66	9.6173	11.2759
chr12	208439	XM_90621	Kihl29	PREDICT	870.8023	137.3475	206.1795
chr15	N/A	AY510081	N/A	Mus musc	281.8815	66.7629	42.6924
chr18	93874	BC079557	Pcdhb3	Mus musc	1236.24	178.5695	292.834
chr8	102075	AK029859	Plekhg4	Mus musc	244.1655	53.9295	57.8402
chr18	1E+08	AK042845	Gm10544	Mus musc	104.6029	24.7836	21.5173
chr14	545001	EF651835	ENSMUSG	Mus musc	2947.262	698.9335	468.3738
chr4	72225	XM_00147	1700003M	PREDICT	170.4855	24.8307	40.4765
chr13	213311	AK035290	Fbxl21	Mus musc	90.5455	13.4421	21.4974
chr13	320614	AK039372	A330033J0	Mus musc	42.2685	8.5366	9.2077
chr16	383103	BC068110	Fam18a	Mus musc	4203.899	775.6855	1001.419
chr16	93961	BC051669	B3galt5	Mus musc	488.7155	80.3695	116.4615
chr3	80883	XM_00147	Ntng1	PREDICT	491.3035	59.7311	117.0855
chr1	19275	AK163141	Ptpn	Mus musc	46.8726	11.1931	6.5822
chr12	664883	AF232828	Nova1	Mus musc	6010.368	274.0941	523.2315
chr10	20393	AK043284	Sgk1	Mus musc	98.2235	23.4645	8.0915
chrX	93837	AK041446	Dach2	Mus musc	244.7815	24.2425	58.4958
chr17	224997	AK033901	Dlgap1	Mus musc	56.8808	10.4344	12.9063
chr12	78801	XM_99434	Ak7	PREDICT	87.1789	15.2452	20.8472
chr12	636791	AK044503	Gm9866	Mus musc	97.2235	16.6399	20.8024
chr1	16579	BC040362	Kifap3	Mus musc	4592.939	670.8555	1098.906
chr9	319405	AK052495	D430036J	Mus musc	261.1535	23.8192	62.4867
chr14	666800	XM_00147	Gm8297	PREDICT	4891.094	1170.413	604.0695
chr14	666329	EF651819	Gm8050	Mus musc	5942.47	1424.185	1041.946
chr3	80883	AF475074	Ntng1	Mus musc	4007.01	562.9718	962.7095
chrX	93837	AK042401	Dach2	Mus musc	443.2117	90.1808	106.6355
chr18	93879	BC127160	Pcdhb8	Mus musc	2060.054	376.5675	495.8115
chr3	319830	AK075724	1500004A	Mus musc	1393.065	236.6594	268.9815
chr6	210673	BC058349	Prrt3	Mus musc	247.8095	59.6772	43.9374
chr4	56737	BC051951	Alg2	Mus musc	9167.022	1707.288	2207.852
chr18	140492	BC125475	Kcnn2	Mus musc	384.6855	43.5352	92.6899
chr7	320026	AK080655	A330076H	Mus musc	262.1725	47.7676	63.1823
chr11	21689	BC098181	Tekt1	Mus musc	414.3675	95.6575	99.8715
chr13	17755	AK157749	Mtap1b	Mus musc	17887.69	3357.131	4314.36
chr16	268859	AY659955	A2bp1	Mus musc	17723.45	2689.333	4277.445
chr4	22696	X89264	Zfp37	M.musculu	748.5135	113.3335	180.8635
chr9	56807	AF241833	Scamp5	Mus musc	2686.324	629.2435	649.8587
chrX	22773	AK034780	Zic3	Mus musc	126.252	11.8389	30.5661
chr5	11496	AB179856	Adam22	Mus musc	573.9646	85.0915	139.1139
chr14	666549	XM_00147	Gm8159	PREDICT	586.8357	142.2504	79.8075
chr14	170677	BC042454	Pcdh21	Mus musc	210.5015	36.4125	51.0348
chr3	13175	AK032424	Dclk1	Mus musc	9052.86	1101.028	2195.582
chr9	17967	X15052	Ncam1	Mouse m	22407.85	4282.992	5439.738



chr6	18575	AK015375	Pde1c	Mus musc	2141.832	408.7855	520.0515
chr17	22715	AK139625	Zfp57	Mus musc	322.8288	45.0021	54.6487
chr17	83965	BC089320	Enpp5	Mus musc	1762.79	373.2127	408.4575
chr13	68203	BC086799	Diras2	Mus musc	1671.866	152.5095	201.2235
chr3	66715	BC099408	4921515J0	Mus musc	207.2255	50.4652	49.0754
chr5	58227	BC056379	Fam184b	Mus musc	972.6515	161.2977	236.9395
chr2	329540	AK139459	8430427H	Mus musc	7620.662	1857.065	1427.235
chr17	23984	AK039249	Pde10a	Mus musc	3338.588	793.3875	814.1735
chr19	381229	XM_35516	Ccdc147	PREDICTI	48.5149	11.8378	6.8756
chr2	18508	AK047243	Pax6	Mus musc	101.6758	24.8128	11.774
chr8	330695	BC028881	Ctxn1	Mus musc	13891.8	2285.237	3395.271
chr5	319387	AK145069	Lphn3	Mus musc	6100.494	1410.284	1491.269
chr17	66643	BC049574	Lix1	Mus musc	299.3479	39.0622	73.1795
chr7	22775	BC050942	Zik1	Mus musc	1945.922	302.3595	475.8919
chr16	224090	AK045675	Tmem44	Mus musc	3354.167	747.5468	821.5515
chr16	N/A	AK086290	N/A	Mus musc	286.1755	64.1841	42.6924
chr12	12652	BC026554	Chga	Mus musc	5205.388	1195.358	1275.193
chrX	236915	BC067031	Arhgef9	Mus musc	4895.467	1199.54	1079.559
chr3	26422	NM_03059	Nbea	Mus musc	9698.978	1525.898	2376.564
chr6	330286	BC059853	D630045J	Mus musc	2552.524	235.8075	625.5195
chr6	330267	AK173072	Thsd7a	Mus musc	3991.425	577.8268	978.5169
chr9	331045	AK041109	A530083I2	Mus musc	482.9495	99.9895	89.5479
chr3	80883	AF475072	Ntng1	Mus musc	1531.998	176.1415	375.9415
chr7	11785	AK075730	Apbb1	Mus musc	9110.038	1808.433	2235.994
chr1	280645	AK048146	B3gat2	Mus musc	187.5407	24.3734	18.1039
chr18	66648	AK171952	5730494M	Mus musc	970.0115	221.6223	238.2235
chr4	272031	AK053451	E130309F	Mus musc	52.0002	9.3632	12.7724
chr2	12296	BC109156	Cacnb2	Mus musc	1332.036	170.2155	302.1362
chr3	72634	BC049363	Tdrkh	Mus musc	267.3815	56.545	65.7979
chr10	1E+08	XM_00147	Gm2137	PREDICTI	396.3412	49.8317	97.6115
chr18	225392	AK044097	Rel2	Mus musc	4156.554	629.8815	712.615
chr9	15561	BC145743	Htr3a	Mus musc	86.6756	21.3524	19.4945
chr1	226970	AK169449	Arhgef4	Mus musc	434.3313	53.0785	88.4155
chr7	11944	U17282	Atp4a	Mus musc	273.6519	67.4798	59.3594
chr17	53901	BC062141	Rcan2	Mus musc	9615.853	922.7975	924.7855
chr3	13175	AY968047	Dcl1	Mus musc	11781.23	1741.386	2909.026
chr19	332359	BC053500	Tigd3	Mus musc	633.8655	144.8533	156.5495
chr11	217340	AK038042	Rnf157	Mus musc	6638.014	1259.875	1639.472
chr8	14681	M36778	Gnao1	Mouse GI	1074.428	265.4167	236.1215
chr17	53901	BC049096	Rcan2	Mus musc	8709.998	553.1448	643.6355
chr7	20981	BC051969	Syt3	Mus musc	1784.022	256.9215	192.8575
chr16	268859	BC059002	A2bp1	Mus musc	10173.67	1620.036	2516.34
chr10	216164	BC100552	Dos	Mus musc	14718.5	2819.064	2902.565
chr5	52323	AK082520	Klhl7	Mus musc	203.9839	38.0882	50.4694
chr8	71310	AK173050	Tbc1d9	Mus musc	2512.176	546.2775	622.1615
chr2	16871	AK047273	Lhx3	Mus musc	215.5495	53.3852	46.3531
chr12	107585	BC106847	Dio3	Mus musc	346.8361	59.9442	85.928
chr9	382111	NM_00110	Susd5	Mus musc	173.2015	17.0687	42.9383
chr15	1E+08	AK033069	Gm2824	Mus musc	92.354	22.9037	13.1604
chr2	12561	BC047991	Cdh4	Mus musc	1679.109	309.0011	416.4395
chr7	74400	BC050101	Zfp819	Mus musc	52.218	12.9767	12.8906
chr9	235402	BC065696	Lingo1	Mus musc	13994.48	1891.694	3480.18
chr1	623172	XM_89756	Gm6403	PREDICTI	438.8147	103.8252	109.187

chr17	16867	AK054331	Lhcgr	Mus musc	90.1794	10.929	22.4588
chr9	19649	AF060570	Robo3	Mus musc	651.7675	92.2875	65.8319
chr17	20541	DQ388998	Slc8a1	alt 'Al8526	6382.558	1191.59	1590.736
chr1	69726	BC052431	Smyd3	Mus musc	843.9493	176.6242	210.6349
chr14	16531	BC065068	Kcnma1	Mus musc	5090.051	998.7835	1271.421
chr7	N/A	AK038886	N/A	Mus musc	227.3675	56.8168	44.8431
chr11	217340	AK169566	Rnf157	Mus musc	952.8675	215.3195	238.2878
chr6	319655	BC033384	Podxl2	Mus musc	8607.16	1406.084	2153.262
chr6	18575	AK014887	Pde1c	Mus musc	1697.706	309.5415	425.1175
chr3	80883	AF475075	Ntng1	Mus musc	1675.306	223.9755	419.5645
chr4	65973	BC061098	Asph	Mus musc	1577.942	212.7115	306.2295
chr10	71721	AK044049	Fam13c	Mus musc	183.9335	34.6145	46.1621
chr5	11496	AB179842	Adam22	Mus musc	526.2035	101.0135	132.0779
chr1	16980	BC056458	Lrrn2	Mus musc	1556.454	202.2295	391.0915
chr13	76937	AK031301	281042910	Mus musc	312.2364	78.5415	65.014
chr18	140492	AK039033	Kcnn2	Mus musc	59.2294	7.7492	14.9184
chr2	18146	BC023887	Npdc1	Mus musc	1273.834	211.0184	261.0955
chr2	108699	AB264771	Chn1	Mus musc	9656.282	2282.646	2433.591
chr15	72373	BC110462	Psca	Mus musc	196.9095	23.7107	26.2785
chr5	243312	BC059029	Elfn1	Mus musc	2630.568	282.4575	663.3584
chr1	226359	BC040774	C1ql2	Mus musc	192.0595	30.9905	22.35
chr1	213417	BC011135	Klhdc8a	Mus musc	414.2832	79.8195	104.4755
chrX	N/A	AK173182	N/A	Mus musc	13315.56	1489.544	3358.734
chr9	72179	AK089994	Fbxl2	Mus musc	906.6586	191.1795	228.7558
chr5	15891	BC045143	Ibsp	Mus musc	1288.489	168.1	325.1595
chr7	12587	BC009815	Mia1	Mus musc	149.0795	18.0394	31.5629
chr2	668894	XM_00100	Gm14025	PREDICT	213.9407	54.0654	46.7971
chr11	268481	AK044068	Krt222	Mus musc	408.2387	65.8439	103.2346
chr9	20616	AK051176	Snap91	Mus musc	62.3265	7.9081	7.4974
chr2	56461	AF287732	Kcnp3	alt '493340	2329.34	395.0595	589.5375
chr11	11858	AK075970	Rnd2	Mus musc	13131.64	3051.876	3324.479
chr5	320064	AK053469	D130017N	Mus musc	1862.066	472.328	392.0188
chr9	110835	DQ318788	Chrna5	Mus musc	196.7735	10.0957	49.9147
chr12	72670	AK012841	2810029C	Mus musc	565.5855	108.5068	143.4995
chr3	13175	BC133685	Dcl1	Mus musc	6417.472	901.3355	1628.652
chr9	208080	NM_00111	Gm514	Mus musc	135.6095	32.2127	23.5827
chr11	74518	BC050140	8430419K	Mus musc	315.9291	55.6137	80.1915
chr3	633285	XM_00147	Rbm46	PREDICT	216.7896	44.3401	55.0296
chr7	381892	XM_35867	Gm1693	PREDICT	171.9695	34.6526	43.6607
chr14	59049	AB012808	Slc22a17	Mus musc	18087.47	3861.261	4593.814
chr6	52250	BC046826	Reep1	Mus musc	16346.6	2876.778	4151.958
chr9	72179	BC096582	Fbxl2	Mus musc	1076.838	214.8075	273.7907
chr18	269019	BC055002	Stk32a	Mus musc	637.6275	71.9956	162.1335
chr4	242800	BC068299	Ttc34	Mus musc	145.0935	36.6575	36.9081
chr9	235380	AK032099	Dmxl2	Mus musc	6588.77	1526.144	1676.482
chr12	217480	BC070461	Dgkb	Mus musc	886.6795	136.8175	225.6127
chr19	107975	AK154563	Pacs1	Mus musc	2124.064	504.2135	540.9035
chr18	15562	AJ011369	Htr4	Mus musc	39.4739	10.0724	7.0081
chr10	14806	AK141539	Grik2	Mus musc	99.9859	22.6665	25.5134
chr12	217480	AK038544	Dgkb	Mus musc	1512.516	220.9915	385.9487
chr15	16581	AK144304	Kifc2	Mus musc	1770.506	451.8539	404.6935
chr5	320916	BC096526	Wscd2	Mus musc	1781.896	237.8395	454.7756
chr14	16531	AK166436	Kcnma1	Mus musc	2999.51	551.8155	765.8592



chr6	269784	AK044694	Cntn4	Mus musc	1398.866	105.8075	357.6798
chr6	666105	XM_98163	Gm7932	PREDICT	93.7216	21.8048	19.3072
chr5	231014	AK079644	9330182L0	Mus musc	2207.292	293.2099	564.7835
chr17	94224	BC125510	Srd5a2	Mus musc	82.9255	21.2202	17.2035
chr4	N/A	XM_97872	N/A	PREDICT	239.7806	61.3612	37.4912
chr8	56527	BC039230	Mast1	Mus musc	3551.251	677.9295	632.4527
chr16	93961	BC057887	B3galt5	Mus musc	127.4465	15.2858	24.155
chr5	74051	NM_00110	Steap2	Mus musc	119.0635	22.0273	30.4748
chr16	545156	AK081504	Kalrn	Mus musc	30.2566	7.2188	7.7453
chr17	N/A	BC011294	N/A	Mus musc	3772.84	932.0935	799.183
chr9	235106	AK042854	Ntm	Mus musc	79.2784	20.3267	17.3902
chr2	56279	BC051954	Fam69b	Mus musc	2011.452	515.9054	491.854
chr13	320174	AK044036	A830082K	Mus musc	440.4415	113.0446	96.1215
chr6	54722	BC132303	Dfna5	Mus musc	1273.813	263.0855	327.0635
chr2	1E+08	XM_00148	Gm14246	PREDICT	66.8338	17.1679	9.3961
chr2	60344	BC059266	Fign	Mus musc	1961.479	467.9735	504.4775
chr5	N/A	AK162845	N/A	Mus musc	210.7975	54.2372	50.5292
chr4	1E+08	XM_00147	Gm12703	PREDICT	43.3187	11.1586	9.9801
chrX	67298	BC027187	Gprasp1	Mus musc	23275.25	4165.766	5999.046
chr18	N/A	AK160850	N/A	Mus musc	480.3546	119.1675	123.8235
chr15	105727	AK047459	Slc38a1	Mus musc	14656.99	2893.316	3779.46
chr17	16772	AK051116	Lama1	Mus musc	486.6584	48.7573	56.7782
chr7	20408	BC027096	Sh3gl3	Mus musc	2660.014	416.457	686.9835
chrX	331578	XM_00147	AW822252	PREDICT	120.4918	15.5078	16.1767
chr5	330230	XM_00147	Zfp853	PREDICT	108.9295	28.1443	25.8041
chr10	103466	AY651022	Nt5dc3	Mus musc	4098.328	936.3755	1059.048
chr12	N/A	AK034029	N/A	Mus musc	78.6723	12.6456	17.7376
chr10	103466	BC156521	Nt5dc3	Synthetic	3808.764	780.1835	984.6999
chr3	26422	Y18276	Nbea	Mus musc	9466.218	1509.178	2447.424
chr11	170758	BC119041	Rac3	Mus musc	13965.66	3218.922	3611.362
chr9	56807	BC018613	Scamp5	Mus musc	4104.818	851.0695	1058.54
chr13	403201	AK045624	5330416C0	Mus musc	230.2435	41.1618	59.6612
chr10	69784	XM_89940	1500009L1	PREDICT	1244.424	177.0535	322.4995
chr7	18751	X59274	Prkcb	M.musculu	4925.77	788.0475	1276.992
chr18	27411	NM_00111	Slc14a2	Mus musc	102.6379	26.6388	22.0466
chr16	224090	AK082652	Tmem44	Mus musc	3087.238	676.6775	803.6115
chr5	319387	BC088989	Lphn3	Mus musc	6609.47	1348.224	1722.46
chr4	230775	AY168407	Bai2	Mus musc	12192.16	2139.718	3179.372
chr7	233057	AK137204	BC027344	Mus musc	221.4515	57.7509	44.8032
chr8	11979	BC156090	Atp7b	Synthetic	212.7475	23.7773	55.4861
chr8	170571	AK081891	Cntnap4	Mus musc	99.1195	25.8577	20.2472
chr9	68283	AK210022	9530077C0	Mus musc	274.3315	22.3949	71.5894
chr9	N/A	BC096603	N/A	Mus musc	3481.685	662.4155	908.6355
chr14	629059	XM_12779	Fam124a	PREDICT	4937.257	1262.276	1288.61
chr17	14570	BC002032	Arhgdig	Mus musc	3181.02	830.7755	386.8175
chr6	64213	AK079107	St7	Mus musc	437.3455	114.3215	110.2635
chr11	319650	AK038603	A430108G0	Mus musc	105.5815	27.6075	24.765
chr16	239852	BC116254	Zpld1	Mus musc	68.4817	10.718	17.9086
chrX	N/A	S42506	N/A	Mus sp. d	60.4777	8.408	15.8195
chr7	259054	BC141586	Olfir589	Synthetic	54.347	14.2252	10.3941
chr7	20927	AK086472	Abcc8	Mus musc	175.8275	17.0951	24.3039
chr3	22066	AK044265	Trpc4	Mus musc	531.0394	126.1255	139.1215
chr2	18795	U85714	Plcb1	Mus musc	1348.455	327.9675	353.576

chr4	71529	AK173090	9030409G	Mus musc	1632.401	327.6415	428.0315
chr14	1E+08	XM_00147	Gm3642	PREDICT	4696.048	1232.446	759.3635
chr1	227327	BC031187	B3gnt7	Mus musc	408.7073	107.2655	83.7875
chr7	14809	BC110682	Grik5	Mus musc	1347.606	270.8775	353.8955
chr13	328235	AK042843	Gm5083	Mus musc	32.0944	6.3146	8.4304
chr17	63993	AK164116	Slc5a7	Mus musc	88.4435	10.98	23.2472
chrX	1E+08	XM_00147	Gm2155	PREDICT	32.6629	8.5868	7.0035
chr8	80720	AJ300184	Pbx4	Mus musc	514.1561	65.4982	75.2475
chr11	216613	AK173298	Ccdc85a	Mus musc	201.6823	53.0466	43.7103
chr5	319387	BC058992	Lphn3	Mus musc	5574.914	1243.024	1467.734
chr9	50876	AK018223	Tmod2	Mus musc	285.2995	42.7718	75.1475
chr7	68952	XM_00148	Fam57b	PREDICT	10135.68	1371.907	578.4975
chr3	66715	BC128495	4921515J0	Mus musc	266.2215	63.8641	70.1411
chr4	626575	XM_89943	Gm6687	PREDICT	111.7395	29.4827	28.7354
chr19	12642	BC039919	Ch25h	Mus musc	487.6895	101.3869	128.7895
chr3	56195	AK033964	Ptbp2	Mus musc	1042.768	148.5615	225.5145
chr17	69310	BC120740	Pacrg	Mus musc	1696.221	392.4695	448.3575
chr19	58178	BC007486	Sorcs1	Mus musc	694.3435	118.978	183.6895
chr8	66423	BC029192	2410022L0	Mus musc	9352.961	2385.12	2477.78
chr4	75718	BC132477	Vwa5b1	Mus musc	156.2995	23.5578	41.4112
chr5	13839	AK034289	Epha5	Mus musc	42.7559	9.0249	11.3282
chr7	244238	BC096766	Mrgpre	Mus musc	2781.856	651.8015	737.5764
chr14	1E+08	XM_00147	Gm3269	PREDICT	1312.11	348.1015	180.2635
chr14	218772	AK190447	Rarb	Mus musc	862.8835	163.3035	228.9315
chr11	11676	BC008184	Aldoc	Mus musc	15720.18	4172.586	3726.568
chr6	77574	AK173013	Fam115a	Mus musc	9568.19	2056.902	2541.514
chr19	16814	BC119177	Lbx1	Mus musc	5363.588	682.5198	1001.699
chr5	19699	AK082689	Reln	Mus musc	1742.17	244.715	463.0155
chr14	66573	BC060196	Dzip1	Mus musc	11309.14	1763.986	2858.738
chr17	268932	BC059916	Caskin1	Mus musc	4238.524	312.0395	396.9695
chr15	11434	BC103580	Acr	Mus musc	303.8156	81.0355	47.2483
chr13	N/A	AK165800	N/A	Mus musc	1019.039	160.8355	272.0355
chr2	329540	AK147524	8430427H	Mus musc	3248.644	867.2715	724.9675
chr1	319455	BC100428	Pld5	Mus musc	1209.803	225.9285	322.9795
chr13	67269	BC082335	Agtbbp1	Mus musc	1604.599	373.8115	428.4615
chr19	73728	AK158851	Psd	Mus musc	7680.664	1082.63	2050.936
chr6	13396	AF022078	Dlx6	Mus musc	30.3886	6.4996	8.1172
chr16	239845	BC059227	Gpr156	Mus musc	464.3675	93.5375	124.0515
chr8	12286	AK161752	Cacna1a	Mus musc	1104.546	232.7815	295.2151
chr3	68725	XM_48525	1110032F0	PREDICT	846.1955	121.2414	219.5815
chr14	72003	AK049661	Synpr	Mus musc	30.7874	8.2393	6.999
chr8	94109	AK038679	Csmd1	Mus musc	178.4235	14.063	14.6113
chr15	16539	BC059833	Kcns2	Mus musc	466.5115	51.7208	125.0298
chr2	353282	BC115511	Sfmbt2	Mus musc	376.4163	64.4001	100.9244
chr14	14169	BC107003	Fgf14	Mus musc	771.9455	206.9775	71.3392
chr10	93765	BC067069	Ube2n	Mus musc	5302.515	1199.8	1421.926
chr9	72022	BC050202	Slc35f2	Mus musc	500.3517	54.9104	101.3435
chr10	404634	BC045140	H2afy2	Mus musc	6123.854	1226.122	1642.808
chr3	26422	AK043125	Nbea	Mus musc	13531.56	2237.409	3630.372
chr5	319387	AK147374	Lphn3	Mus musc	5824.688	1381.9	1563.188
chr17	57440	BC046596	Ehd3	Mus musc	1229.366	221.6575	284.9056
chr18	N/A	DQ465976	N/A	Mus musc	973.0695	54.2871	93.6348
chr10	28240	AK036731	Trpm2	Mus musc	327.3932	71.4636	87.9995



chr7	20927	BC057080	Abcc8	Mus musc	1108.34	215.4022	298.0355
chr6	12661	AK040765	Chl1	Mus musc	56.1553	15.1187	9.6239
chr7	70884	AK029544	Ccdc81	Mus musc	68.9817	11.9901	18.5836
chrX	93728	BC107362	Pabpc5	Mus musc	356.2195	39.0819	95.9815
chr8	406173	AK083706	D030068K	Mus musc	153.8329	27.608	37.3158
chrX	58242	BC071274	Nudt11	Mus musc	3755.533	722.7475	1013.026
chr7	80749	DQ314497	Lrnf1	Mus musc	1666.925	273.0413	450.2375
chr1	16510	BC109012	Kcnh1	Mus musc	695.4675	107.9355	135.9235
chr15	432989	XM_00148	D930007P	PREDICTI	423.8655	58.2294	114.4935
chr13	673332	XM_00147	Gm9595	PREDICTI	225.8463	55.1761	61.0528
chr8	330790	BC125339	Hapln4	Mus musc	40.6389	10.9893	10.7702
chr14	432830	AK146230	LOC43283	Mus musc	157.9675	42.7312	25.6559
chr3	13175	AY968048	Dclk1	Mus musc	11264.26	1841.921	3051.625
chr9	N/A	BC032253	N/A	Mus musc	10311.15	2354.432	2793.416
chr9	50876	AF237629	Tmod2	Mus musc	6292.777	1371.84	1705.158
chr8	170737	AK078819	Znrf1	Mus musc	10722.04	2567.699	2906.388
chr12	217480	AK122355	Dgkb	Mus musc	454.1095	78.7725	123.1035
chr12	319504	AK087693	Nrcam	Mus musc	148.2774	20.8294	29.6616
chr15	12563	BC107008	Cdh6	Mus musc	3814.344	686.3835	1035.902
chr17	320858	AK042907	L3mbtl4	Mus musc	34.9487	8.0704	6.6766
chrX	N/A	BC042783	N/A	Mus musc	137.3866	27.2533	37.3158
chr17	83965	AK032341	Enpp5	Mus musc	6622.696	1511.532	1482.797
chr7	233877	BC079607	Kctd13	Mus musc	4643.898	1262.358	1019.876
chr5	75136	AK015903	Rsph10b2	Mus musc	339.7015	37.2943	92.3795
chr10	66337	AK006431	1700025K2	Mus musc	535.8106	125.7684	145.7655
chr10	74053	AK029845	Grip1	Mus musc	917.2375	198.5755	249.6035
chr11	14406	AK049857	Gabrg2	Mus musc	70.4104	13.3585	19.1614
chr6	210673	AK136854	Prrt3	Mus musc	221.6735	55.5376	44.8
chr5	140498	BC120741	Rxfp2	Mus musc	60.2209	10.9084	16.3951
chr3	N/A	XM_00147	N/A	PREDICTI	285.3795	77.7095	74.9075
chr11	268445	BC039786	Ankrd13b	Mus musc	9508.654	2247.66	2589.619
chr14	1E+08	EF651840	Gm3642	Mus musc	3112.344	848.4135	489.9655
chr6	12311	AK138275	Calcr	Mus musc	216.8895	17.0293	59.1361
chrX	13497	BC125345	Drp2	Mus musc	4298.06	776.5115	1171.912
chr17	240057	XM_98554	Syngap1	PREDICTI	2021.24	551.5615	529.8852
chr2	378776	AK035754	C630020P	Mus musc	20.8249	5.4394	5.6857
chr9	270160	BC049787	Rab39	Mus musc	47.4712	5.9402	6.7002
chr6	243725	AK138313	Ppp1r9a	Mus musc	5091.522	1390.708	1369.286
chr16	72168	AK158809	Aifm3	Mus musc	474.8213	129.7955	103.9615
chr15	320277	BC132098	Spef2	Mus musc	89.1535	15.3616	24.3802
chr14	1E+08	XM_00147	Gm3149	PREDICTI	2241.213	612.9932	338.8695
chr16	224022	BC016100	Slc7a4	Mus musc	1262.344	284.5015	345.2835
chr13	N/A	AK146979	N/A	Mus musc	58.0193	14.9538	15.8731
chr1	19775	BC153872	Xpr1	Mus musc	6539.359	1562.898	1780.534
chr12	382562	BC116888	Pfn4	Mus musc	565.6955	154.9535	113.7315
chrX	14758	BC025165	Gpm6b	Mus musc	7999.674	1658.854	2192.896
chr6	243407	BC119578	C130060K	Mus musc	122.8095	33.682	17.2138
chr19	69060	BC061061	Pnlip	Mus musc	109.3455	29.9927	14.9597
chr11	20606	BC140348	Sstr2	Synthetic	1148.848	221.3014	315.238
chr5	381633	AK131594	Gm1673	Mus musc	325.8639	86.178	89.4168
chr2	74711	AK041612	Till9	Mus musc	177.6795	32.9074	43.2341
chr12	26380	AK032025	Esrrb	Mus musc	425.2095	81.7955	116.892
chr13	76937	AK043278	2810429I0	Mus musc	104.7555	22.3338	24.8729

chr6	232016	BC116335	Ccdc129	Mus musc	34.7425	9.5673	9.348
chrX	22773	BC141551	Zic3	Synthetic	1347.915	153.8855	371.2535
chr8	270049	AK015826	Galnt16	Mus musc	160.6974	30.0625	26.2089
chr14	26419	AK139498	Mapk8	Mus musc	6617.041	1823.108	1783.206
chr11	11548	BC037002	Adra1b	Mus musc	1119.686	71.8016	104.2655
chr8	23923	BC012637	Aadat	Mus musc	79.6381	21.0943	21.9562
chr13	1E+08	AK136919	LOC10004	Mus musc	38.8839	9.732	9.9726
chr11	68572	BC079614	Ict1	Mus musc	523.6955	144.5915	104.3035
chr19	73442	AK087732	Hspa12a	Mus musc	2136.546	589.9335	577.3595
chr1	211484	AF530050	Tsga10	Mus musc	220.7795	50.0424	60.9688
chr9	18667	AK142629	Pgr	Mus musc	485.5415	108.5715	134.2515
chr17	23984	BC113201	Pde10a	Mus musc	3137.631	867.7375	703.2345
chr2	15376	L10409	Foxa2	Mouse for	118.8795	20.7926	32.9105
chr2	56508	BC139822	Rapgef4	Mus musc	3989.912	811.8246	1104.865
chr11	66569	BC016541	Gdpd1	Mus musc	4936.53	1321.134	1256.566
chr10	319646	AK085342	D630013N	Mus musc	37.1647	8.8239	9.6443
chr8	84036	AK041033	Kcnn1	Mus musc	1614.742	399.3215	417.3135
chr7	80749	BC004018	Lfn1	Mus musc	2193.072	403.7575	609.4061
chr6	18489	BC027525	Reg3b	Mus musc	74.8495	20.8161	10.1304
chr12	238161	DQ233646	Akap6	Mus musc	7501.029	1379.128	2086.218
chr17	12815	AK138017	Col11a2	Mus musc	842.5175	220.7555	208.7035
chr15	353342	NR_00286	Peg13	Mus musc	14751.61	3008.198	2860.894
chr10	103406	AK033649	Zfr2	Mus musc	4085.246	953.0395	1083.003
chr4	18124	BC068150	Nr4a3	Mus musc	300.1915	76.0595	83.6402
chr11	71675	BC065122	0610010FC	Mus musc	2387.505	528.6675	665.5415
chr15	16581	BC152740	Kifc2	Synthetic	362.4995	90.0975	79.6975
chr5	1E+08	XM_00147	Gm16401	PREDICT	253.1995	49.9192	70.6005
chr9	72179	BC145665	Fbx12	Mus musc	820.6194	186.0647	229.2615
chr11	15415	BC140344	Hoxb7	Synthetic	2317.562	436.1295	647.6655
chr2	20744	BC014710	Strbp	Mus musc	2950.676	723.8778	824.7895
chr6	330267	XM_28755	Thsd7a	PREDICT	2882.711	367.0747	805.8275
chr7	22652	BC054771	Mkrm3	Mus musc	3396.83	949.6055	802.5175
chrX	278240	BC068162	Spin2	Mus musc	1065.124	187.3875	297.7728
chr2	56461	NM_00111	Kcnip3	Mus musc	2426.062	418.5355	678.5359
chr11	216739	BC016114	Acsl6	Mus musc	3245.102	812.9775	908.3997
chr17	224617	BC094417	Tbc1d24	Mus musc	2273.211	636.4935	627.005
chr7	319551	AK031861	6330420H	Mus musc	55.0568	15.417	8.2142
chr8	12286	AK017088	Cacna1a	Mus musc	191.6335	22.2932	20.9205
chr16	16180	AK033972	Il1rap	Mus musc	55.9734	8.9077	15.6935
chr11	16568	BC052707	Kif3a	Mus musc	8098.028	2271.976	2239.612
chr1	269120	AK053318	Optc	Mus musc	351.6525	74.2084	98.6975
chr13	N/A	AK078363	N/A	Mus musc	33.062	9.279	9.2913
chr1	14545	AK049655	Gdap1	Mus musc	346.6455	58.9236	66.6337
chr6	22685	BC003315	Zfp239	Mus musc	3316.552	885.787	932.1095
chr3	75740	BC117810	6130401L2	Mus musc	45.3621	12.7518	10.3306
chr19	18399	BC021647	Slc22a6	Mus musc	213.9735	49.1408	20.2036
chr18	83885	BC125010	Slc25a2	Mus musc	186.3935	51.478	52.4196
chr17	N/A	AK037830	N/A	Mus musc	372.9034	93.0269	104.8875
chr2	245865	AB041554	Spag4	alt '17000	269.6795	75.8935	60.9801
chr3	22066	AF019663	Trpc4	Mus musc	396.0334	111.4615	96.6532
chr12	791312	XM_00147	Gm9997	PREDICT	177.0022	36.9317	49.8594
chr3	72511	AK012035	2610316D	Mus musc	1094.62	130.6975	308.4057
chr4	252838	BC080732	Tox	Mus musc	1426.518	350.5595	401.9854



chr9	74100	AK045507	Arpp21	Mus musc	263.3685	47.6003	74.2435
chr8	71597	BC128289	Isx	Mus musc	33.9237	9.5648	9.4012
chr7	243937	AK042625	Zfp536	Mus musc	892.3695	74.0855	251.6335
chr4	75360	AK016071	4930548K	Mus musc	31.4329	8.8711	8.2627
chr7	1E+08	XM_00147	Gm3901	PREDICT	119.8515	32.1422	33.8324
chr5	72154	BC059261	Zfp157	Mus musc	601.8175	103.3735	169.9217
chr3	80883	AK053689	Ntng1	Mus musc	445.1175	57.4783	125.6975
chr17	20541	BC079673	Slc8a1	Mus musc	7314.682	1302.948	2066.878
chr13	N/A	BC054101	N/A	Mus musc	137.3273	31.3086	38.8201
chr3	26938	BC055737	St6galnac5	Mus musc	1153.492	325.8075	326.1635
chr1	74933	AK015528	4930469G	Mus musc	47.3113	13.3782	7.8237
chr13	319469	AK045807	A230056J	Mus musc	70.0896	13.6264	19.8206
chrX	12212	BC132322	Chic1	Mus musc	765.1524	145.7175	216.4215
chr7	70884	BC152307	Ccdc81	Mus musc	55.7356	15.0162	15.7676
chr4	19746	BC145805	Rhd	Mus musc	137.3051	38.879	19.3325
chr7	12055	AK049064	Bcl7c	Mus musc	5428.906	957.9575	1537.332
chr1	170788	AY450552	Crb1	alt '75304	69.7129	15.4039	6.3474
chr19	54612	BC032921	Sfrp5	Mus musc	4412.586	355.7335	488.6315
chr4	20404	BC018385	Sh3gl2	Mus musc	2364.556	197.4755	256.7035
chr7	791275	BC006942	Gm9885	Mus musc	249.1415	70.6276	28.8466
chr6	76252	BC010790	Atp6v0e2	Mus musc	5267.942	617.5255	767.6875
chr11	192775	BC109174	Kcnh6	Mus musc	873.1414	215.8535	247.7215
chr3	22066	BC120729	Trpc4	Mus musc	476.3809	92.1775	135.2417
chr7	68952	BC093505	Fam57b	Mus musc	9944.885	1271.244	541.394
chr8	12845	BC128368	Comp	Mus musc	1361.758	295.8455	386.8643
chr9	69519	BC115691	Rwdd2a	Mus musc	547.4244	130.5104	155.623
chr6	319352	BC065170	C530028O	Mus musc	1527.429	223.5815	434.5683
chr5	319387	AK140842	Lphn3	Mus musc	5253.378	1261.302	1494.888
chr11	320027	BC132353	Fstl4	Mus musc	366.4504	78.4975	104.4075
chr7	243866	AK034341	Gm4969	Mus musc	141.8275	40.4305	38.877
chr7	627214	XM_89474	Fam196a	PREDICT	1587.237	302.3055	298.4795
chr2	229011	BC052921	Samd10	Mus musc	5760.223	1085.464	1098.338
chr15	223732	BC058638	Ldoc1l	Mus musc	2410.364	579.6795	688.3175
chr5	19699	AK047608	Reln	Mus musc	4894.213	942.0099	1399.4
chr17	1E+08	XM_00147	Gm3268	PREDICT	269.7355	77.1415	75.8485
chr9	71687	AK090375	Tmem25	Mus musc	1472.838	369.2772	298.1675
chr9	N/A	AK183195	N/A	Mus musc	729.0275	208.6035	199.0474
chr4	70602	XM_00147	5730488B	PREDICT	60.6929	13.9616	11.4922
chr11	68729	BC059070	Trim37	Mus musc	6690.844	1915.232	1814.022
chr12	382562	BC094614	Pfn4	Mus musc	142.0535	28.5555	40.6964
chrX	73061	AK032219	3110007F	Mus musc	1329.564	315.1915	381.515
chr5	19699	AK017094	Reln	Mus musc	3223.942	486.1147	925.1549
chr2	241520	BC113787	Fam171b	Mus musc	7393.51	1560.573	2122.715
chr12	668710	XM_00100	Gm9312	PREDICT	1988.488	570.9875	502.77
chr8	13423	AK010630	Dnase2a	Mus musc	14820.7	2777.672	3045.724
chr12	16570	BC127063	Kif3c	Mus musc	18082.61	3877.268	5199.106
chr6	19713	BC059012	Ret	Mus musc	1772.292	265.2315	400.6295
chr10	18390	AF074972	Oprm1	Mus musc	128.5475	34.3875	13.9163
chr18	240332	BC050103	Slc6a7	Mus musc	174.1855	17.4719	15.6355
chr12	669327	XM_00147	Gm9454	PREDICT	71.6826	9.9363	12.7067
chr5	381633	BC100514	Gm1673	Mus musc	1478.998	214.8439	426.8355
chr13	677603	XM_00147	Gm9720	PREDICT	93.3455	26.9527	26.7344
chr5	57749	BC129857	Piwil1	Mus musc	145.6194	42.0664	37.6185

chr6	243725	BC053748	Ppp1r9a	Mus musc	2999.51	835.4755	866.8635
chr5	18935	AK052579	Phox2b	Mus musc	40.8512	11.8165	8.2627
chr7	672553	XM_00147	Gm9567	PREDICT	74.8415	10.9798	19.8109
chrX	53623	BC129855	Gria3	Mus musc	5125.014	918.8715	1485.678
chr15	1E+08	XM_00148	Gm4460	PREDICT	73.3855	21.2928	8.9041
chr16	107522	BC030900	Ece2	Mus musc	551.0651	62.2933	159.9795
chr5	1E+08	XM_00147	Gm2750	PREDICT	57.6223	16.7345	13.873
chr12	16570	AK220283	Kif3c	Mus musc	9064.726	2039.151	2637.238
chr16	320007	BC079584	Sidt1	Mus musc	112.3714	29.5335	17.5492
chr4	56079	AK172987	Astn2	Mus musc	2621.228	407.8404	762.9375
chr9	74443	BC111871	P4htm	Mus musc	1690.62	391.8837	492.4742
chrX	667736	NM_00109	Gm8787	Mus musc	63.0103	15.9702	18.3683
chr3	74718	AK043975	Snx16	Mus musc	7939.388	2006.958	2314.474
chr2	667804	XM_99257	Gm14424	PREDICT	343.7202	100.2022	48.6126
chr8	1E+08	XM_00147	Gm2921	PREDICT	76.7835	22.3949	16.2548
chr1	66722	BC120668	Spag16	Mus musc	35.3787	8.2746	9.0582
chr2	78217	XM_88490	Tmem210	PREDICT	69.0017	17.0498	18.621
chr6	67934	XM_00147	1700124L1	PREDICT	87.9249	11.826	25.6792
chr13	76937	AK013191	2810429I0	Mus musc	81.0291	18.621	23.6708
chrX	333588	XM_00147	Gm15104	PREDICT	136.5475	39.9306	26.5149
chr2	67637	AK015810	4930470P	Mus musc	47.4488	13.8843	12.4722
chr1	N/A	NM_00111	N/A	Mus musc	2824.33	812.7865	545.3815
chr17	353344	BC125611	Opn5	Mus musc	79.1575	22.2835	23.1853
chr15	13992	BC031507	Khdrbs3	Mus musc	8137.358	2383.57	1718.714
chr12	217733	AK030062	Tmem63c	Mus musc	117.4226	20.5055	19.3225
chr18	1E+08	AY227025	Nrg2	Mus musc	328.1495	79.3755	96.2375
chr2	53872	NM_00111	Caprin1	Mus musc	1664.17	338.8695	488.1335
chr14	N/A	BC071263	N/A	Mus musc	2887.588	847.4815	633.4634
chr2	17005	BC047138	Ltk	Mus musc	184.5955	31.8818	24.1453
chr10	58802	BC117779	Kcnmb4	Mus musc	13468.42	3044.898	3956.48
chr16	224019	BC058760	Tmem191d	Mus musc	575.9435	133.389	169.4975
chr7	68947	BC051124	Chst8	Mus musc	867.6555	213.495	255.5695
chr6	243538	BC047211	Ccdc37	Mus musc	197.0664	23.4645	32.9106
chr11	67826	BC023182	Snap47	Mus musc	13595.45	3277.604	4007.994
chr11	217310	AK049861	C630004H	Mus musc	1332.988	393.0035	311.8355
chr7	243846	AK134892	Ccdc9	Mus musc	364.2817	102.4435	107.4075
chr12	238333	XM_13810	Gm263	PREDICT	178.5524	28.9429	52.655
chr16	93871	NM_17692	Brwd1	Mus musc	11178.82	3034.722	3298.096
chr10	70911	BC124999	Phyhipl	Mus musc	102.2875	15.5841	30.1791
chr9	22063	U95169	Trpc1	Mus musc	655.7735	188.3115	193.7395
chr10	18390	AF346812	Oprm1	alt 'MOP-F	53.8436	9.95	15.24
chrX	93761	AF325920	Smarca1	Mus musc	3072.09	584.8475	907.9635
chr3	74718	AK166422	Snx16	Mus musc	2538.681	595.1177	750.3873
chr5	666938	XM_00147	Bend4	PREDICT	587.073	103.1435	173.6355
chr14	1E+08	XM_00147	Gm3727	PREDICT	580.8035	171.8015	70.0329
chr16	17470	BC019172	Cd200	Mus musc	9134.072	2605.02	2374.436
chr7	58188	BC140243	Vstm2b	Synthetic	1882.494	285.0734	557.0816
chr17	106757	XM_88408	Tmem146	PREDICT	85.4415	21.3256	25.2919
chr9	67287	AK035349	Parp6	Mus musc	4083.612	1208.832	1016.875
chrX	210297	BC056180	Lrch2	Mus musc	4732.456	1029.024	1401.688
chr14	666918	XM_00147	Gm8362	PREDICT	1967.832	583.1151	306.1595
chr10	17179	AK018182	Matk	Mus musc	433.5575	118.5315	128.4755
chr11	16568	AK147078	Kif3a	Mus musc	9205.552	2396.173	2728.178



chr1	241062	XM_89262	Pgap1	PREDICT	1693.737	427.6095	479.9915
chr8	244431	BC104048	Sgcz	Mus musc	369.1675	39.5365	33.2398
chr6	68235	BC052467	2410066E	Mus musc	5914.164	945.3595	1076.556
chr15	12805	BC055360	Cntn1	Mus musc	47.6147	11.6857	14.1274
chr1	16764	XM_00147	Aff3	PREDICT	692.697	48.6126	94.1598
chr1	66297	AK048630	2610017I0	Mus musc	158.153	46.9965	46.3311
chr5	675812	AK051473	Zfp605	Mus musc	446.2975	108.7575	132.6435
chr4	70025	BC013507	Acot7	Mus musc	12752.2	3790.3	3422.342
chr2	320554	BC116926	Tcp111	Mus musc	2897.636	719.3255	861.7715
chr14	66573	BC098211	Dzip1	Mus musc	4475.348	788.1455	1171.226
chr2	1E+08	AK142949	Gm13429	Mus musc	83.1095	24.7384	12.2697
chr2	269295	BC132523	Rtn4r2	Mus musc	217.9455	51.7208	65.0501
chr4	22696	BC063757	Zfp37	Mus musc	2436.838	596.5975	727.5777
chr1	211484	AY618264	Tsga10	alt '49334'	104.0996	30.3675	31.0928
chr6	1E+08	AF217545	Copg2as2	Mus musc	4351.538	1299.814	1195.72
chr11	21689	AK076858	Tekt1	Mus musc	489.6855	146.3255	99.7036
chr12	18191	AK082055	Nrxn3	Mus musc	72.5902	18.3304	21.7039
chr7	18479	BC060157	Pak1	Mus musc	8808.243	2149.37	2171.214
chr9	N/A	AK039053	N/A	Mus musc	80.5415	24.1354	21.0511
chr9	29873	AK138233	Cspg5	Mus musc	520.6142	100.6635	106.4964
chr7	14809	BC052009	Grik5	Mus musc	1238.23	189.8735	371.1996
chr8	56773	BC141429	Chst5	Synthetic	277.7355	51.7767	83.3295
chr16	74482	BC115786	lfitm7	Mus musc	190.8435	57.2685	33.6335
chr19	11551	AK046802	Adra2a	Mus musc	3031.188	473.9035	910.5115
chr6	269784	NM_00110	Cntn4	Mus musc	1458.028	101.1495	438.1475
chr2	241525	BC119263	Ypel4	Mus musc	2353.62	707.5477	703.1715
chr5	433868	AK132123	3110082J2	Mus musc	95.0695	28.5865	16.8104
chr10	69002	AK048993	1500026H	Mus musc	99.9655	30.0641	16.796
chr12	380785	XM_35469	Begain	PREDICT	547.0815	119.5932	164.5655
chr18	71206	BC069977	Katnal2	Mus musc	343.3055	103.2895	74.7575
chr15	60315	BC023124	Myg1	Mus musc	2227.839	644.9695	670.5535
chr5	76003	AK017893	5830403M	Mus musc	103.1215	29.9707	28.7156
chrX	53623	AB022342	Gria3	Mus musc	4458.33	829.0755	1344.564
chr16	268859	AY659958	A2bp1	Mus musc	10458.23	2252.068	3154.874
chr9	102747	AK051325	Lrrc49	Mus musc	10018.02	2509.684	3022.254
chr12	12677	BC031869	Vsx2	Mus musc	499.4795	15.2213	52.7071
chr1	18514	BC058390	Pbx1	Mus musc	6946.886	1492.444	2096.886
chr1	24012	DQ139289	Rgs7	alt '-'	2264.876	684.1875	69.6937
chr2	228139	BC023089	P2rx3	Mus musc	789.1057	238.4995	166.7595
chr9	1E+08	XM_00147	Gm2109	PREDICT	34.1421	10.3194	7.4769
chr11	268445	BC022693	Ankrd13b	Mus musc	8302.941	2363.724	2512.647
chr13	12950	BC066853	Hapln1	Mus musc	185.1415	16.629	56.0314
chrX	68355	AK002502	2010204K	Mus musc	88.4715	26.7785	18.7934
chr4	67735	XM_00147	4930528A	PREDICT	53.54	10.2597	16.2212
chr1	20536	BC080271	Slc4a3	Mus musc	2099.456	464.6615	636.1124
chr4	77032	XM_00147	2610029I0	PREDICT	72.4341	21.5982	21.9562
chr6	14924	AB194411	Magi1	Mus musc	2835.424	753.8077	859.5535
chr1	20536	BC066086	Slc4a3	Mus musc	2132.898	524.7035	646.6859
chr3	18770	NM_00109	Pklr	Mus musc	267.3592	73.5575	81.0755
chr9	69149	BC027392	Kbtbd3	Mus musc	1114.228	289.6515	338.0202
chr5	269643	BC059811	Ppp2r2c	Mus musc	6885.274	279.2515	444.5027
chr4	69329	AK005650	1700003M	Mus musc	56.7569	17.2249	14.307
chr11	72290	AK082292	Lsm11	Mus musc	2138.693	549.8595	649.3515

chr9	211949	BC023083	Spsb4	Mus musc	2781.734	656.8461	845.1134
chr7	16502	BC125470	Kcnc1	Mus musc	3810.204	279.0539	526.2715
chr6	232035	BC107398	C130092O	Mus musc	915.5315	231.8795	278.1955
chr2	241764	AJ875402	L3mbtl	Mus musc	62.1643	8.7418	10.6996
chr10	216148	AK032878	Shc2	Mus musc	1184.77	341.6835	337.5994
chr3	1E+08	XM_00147	Gm2612	PREDICT	763.2505	133.0513	60.193
chr17	1E+08	XM_00147	Gm9893	PREDICT	244.1515	74.2435	51.613
chr1	20452	BC060112	St8sia4	Mus musc	925.0775	224.0164	281.3175
chr10	15364	BC052158	Hmga2	Mus musc	3012.344	784.2215	916.8924
chr11	66274	BC130224	1810012P	Mus musc	2924.334	890.4755	870.7555
chrX	22773	BC080734	Zic3	Mus musc	2185.684	225.8335	666.0315
chr10	74053	AK016420	Grip1	Mus musc	6946.844	2117.048	2022.382
chr8	17773	BC119313	Mtnr1a	Mus musc	171.6275	46.4506	39.2728
chr13	238690	AK161458	Zfp458	Mus musc	170.4395	21.152	52.1448
chr16	106369	AK133401	Ypel1	Mus musc	1676.482	512.9224	496.0255
chr2	227733	BC094346	Pip5kl1	Mus musc	221.1644	67.6698	60.4823
chr10	69894	BC024943	2010107G	Mus musc	977.4912	168.7035	241.1255
chr13	N/A	AK032401	N/A	Mus musc	8310.543	1054.304	1069.542
chr17	225030	AF454551	Kcng3	alt 'KV6.3#	44.1306	13.5338	6.4775
chr10	70976	AK016452	Ccdc105	Mus musc	223.8084	63.3572	48.2409
chr2	14221	BC051990	Fjx1	Mus musc	5578.832	1335.98	1715.576
chr7	330671	BC031982	B4galnt4	Mus musc	1036.123	293.4815	319.1123
chr2	13429	L31395	Dnm1	Mus musc	15038.76	3993.835	4632.2
chr12	69522	XM_89939	2310002D	PREDICT	167.0555	28.878	51.4714
chr15	320860	AK045038	B130021B	Mus musc	2374.961	463.3535	731.8435
chr10	69784	AK005183	150009L1	Mus musc	2141.736	465.7135	660.4195
chr18	1E+08	XM_00147	Gm2732	PREDICT	501.1775	101.6715	154.6118
chrX	236643	AB098161	Sytl5	Mus musc	230.0215	45.6425	71.0756
chr19	399599	BC145660	Ccdc87	Mus musc	159.4575	38.04	49.3173
chr15	320277	AK041992	Spf2	Mus musc	123.164	18.9205	31.9405
chr11	237711	BC024726	Eml6	Mus musc	1109.556	323.3034	308.8433
chr5	246316	BC148507	Lgi2	Synthetic	963.7175	235.5335	237.5182
chr10	74706	BC019469	4930507D	Mus musc	124.3355	31.3534	38.5547
chr5	675812	AK043719	Zfp605	Mus musc	228.4095	70.8296	68.6157
chr7	74293	AK007082	1700095J0	Mus musc	190.9475	18.074	59.2674
chr17	56047	AK144391	Msln	Mus musc	521.2235	129.5335	161.8735
chr15	73340	BC098199	Nptxr	Mus musc	9355.402	1660.476	2905.89
chr17	53901	BC047153	Rcan2	Mus musc	7421.242	557.4349	668.3055
chr13	218544	BC017611	Sgtb	Mus musc	2027.083	467.1575	629.9155
chr1	19775	AK087140	Xpr1	Mus musc	345.8575	63.2423	77.6597
chr10	17179	BC111864	Matk	Mus musc	802.9271	114.8835	189.5007
chr15	319953	BC010510	Tll1	Mus musc	6244.492	1777.192	1943.264
chr1	269152	BC056349	Kif26b	Mus musc	2102.252	397.5671	654.5033
chr2	58237	BC061107	Nkain4	Mus musc	2565.138	316.4605	488.2135
chr8	78506	BC125445	Efha2	Mus musc	477.8521	94.1549	119.2503
chr16	224170	BC117953	Dzip3	Mus musc	6224.003	1529.473	1939.08
chr14	1E+08	XM_00147	Gm3127	PREDICT	223.8975	69.7866	56.0913
chr9	319215	XM_00100	4932413F0	PREDICT	74.3955	19.5576	23.2067
chr14	219228	AK051160	Pcdh17	Mus musc	25.5079	6.7831	7.9584
chr17	224617	AK147647	Tbc1d24	Mus musc	4103.618	1242.768	1281.372
chr13	13803	BC049186	Enc1	Mus musc	21941.15	6759.09	6857.196
chr8	234130	BC018400	Dkk4	Mus musc	251.5735	78.6335	75.3743
chr8	56527	BC054524	Mast1	Mus musc	7077.628	1604.784	1822.434

chr10	76877	AK046113	Rab36	Mus musc	1343.206	277.9375	420.4835
chrX	382245	XM_89801	Tmem29	PREDICT	497.4795	115.0398	139.7666
chr3	22329	BC029823	Vcam1	Mus musc	9675.896	2429.927	3031.188
chr6	13619	S73884	Phc1	rae-28=po	2530.211	793.0795	742.8995
chr6	12661	AK053039	Chl1	Mus musc	5274.889	1021.854	965.1315
chr5	14397	AK079551	Gabra4	Mus musc	39.4383	7.565	10.9663
chr9	67287	BC062096	Parp6	Mus musc	2096.326	627.6575	607.2235
chrX	14853	AK050859	Gspt2	Mus musc	471.7234	119.6335	148.1035
chr7	N/A	AK133391	N/A	Mus musc	1138.39	313.2975	357.5075
chr8	N/A	BC051420	N/A	Mus musc	1340.334	227.6127	421.0189
chr3	665113	AK039113	Tnik	Mus musc	4093.694	1223.713	1285.928
chr14	1E+08	XM_00147	Gm2662	PREDICT	28.533	7.593	8.9692
chr14	1E+08	XM_00147	Gm3278	PREDICT	793.5315	249.6066	84.2595
chr5	16885	BC156778	Limk1	Synthetic	7774.636	2151.19	2445.648
chr14	1E+08	XM_00147	Gm3159	PREDICT	2181.474	686.4921	263.4555
chr13	12022	BC119047	Barx1	Mus musc	111.5993	32.9529	28.6872
chr2	94217	AK080989	Lrp1b	Mus musc	49.2199	15.4903	6.9147
chr19	N/A	AF014117	N/A	Mus musc	3293.686	696.7235	1036.597
chr12	432713	AK039060	Gm5441	Mus musc	40.4505	12.7312	7.2114
chr14	14365	BC140376	Fzd3	Synthetic	6868.824	1983.672	2163.578
chr12	78257	AK082549	Lrrc9	Mus musc	34.0025	8.9219	8.4379
chr9	19659	BC018254	Rbp1	Mus musc	10481.8	3304.858	3024.036
chr4	18124	AF191212	Nr4a3	Mus musc	726.4174	229.0595	228.1915
chr14	14365	BC050965	Fzd3	Mus musc	5622.666	1398.586	1773.08
chr11	216739	AY786360	Acs16	alt 'A3300	3315.589	785.0037	1045.976
chr7	52480	AK035645	D7Ertd715	Mus musc	1394.056	217.4378	440.0675
chr3	80883	AK034465	Ntng1	Mus musc	139.6981	12.6886	44.1431
chr10	74053	BC072632	Grip1	Mus musc	186.9775	27.4739	59.1155
chr4	16559	BC140373	Kif17	Synthetic	333.3715	82.2115	105.4075
chr8	211323	AK141037	Nrg1	Mus musc	104.8992	19.4229	30.4748
chr16	19118	BC049599	Prr1	Mus musc	80.5855	18.7991	25.4934
chr17	268934	BC072635	Grm4	Mus musc	1962.724	620.9175	579.0855
chr11	71675	BC079876	O610010F0	Mus musc	1776.53	561.9035	563.1095
chr5	18196	BC008272	Nsg1	Mus musc	9842.299	2228.75	3119.93
chr7	13172	BC082541	Dbx1	Mus musc	147.4175	31.2003	33.8504
chr12	26380	X89594	Esrrb	M.musculu	506.0724	100.6395	160.5575
chr3	14613	AK017840	Gja5	Mus musc	1261.906	400.3635	381.5722
chr8	84036	AK043611	Kcnn1	Mus musc	54.8585	13.4568	17.4102
chrX	245404	BC068319	Dcaf12l1	Mus musc	715.9775	223.5815	227.4101
chr15	71726	AK204061	Smug1	Mus musc	1100.459	349.6115	339.1855
chr8	234515	BC064813	Inpp4b	Mus musc	452.5835	82.5669	143.8315
chr7	68947	AK038952	Chst8	Mus musc	789.5475	197.6831	251.0015
chrX	236643	BC150158	Sytl5	Mus musc	105.5115	33.5437	31.0663
chr14	1E+08	XM_00147	Gm2971	PREDICT	1230.657	391.3819	134.1495
chr10	17179	S77473	Matk	VNK=nonr	1350.25	299.3455	299.8275
chr19	14585	AF015172	Gfra1	Mus musc	3104.825	636.5255	987.6815
chr6	210673	AK031947	Prrt3	Mus musc	233.9115	34.5486	64.826
chr19	20510	AK045632	Slc1a1	Mus musc	162.7194	38.531	34.2954
chr7	267019	BC054792	Rps15a	Mus musc	1347.882	301.8293	429.5995
chr18	240479	BC119040	B230399E	Mus musc	986.6915	203.8075	314.6755
chr1	N/A	DQ139287	N/A	Mus musc	3644.876	1162.499	131.7215
chr4	230157	AJ400622	Tmeff1	Mus musc	13878.52	4217.824	4428.394
chr14	16426	BC015276	Itih3	Mus musc	63.9344	12.8287	20.4031

chr2	241638	AK161711	RP23-100C	Mus musc	1326.684	273.8195	423.6115
chr3	319506	AK033061	7530428D	Mus musc	34.1871	9.5103	10.918
chr2	320554	BC057381	Tcp1111	Mus musc	1451.136	408.4375	463.4835
chr9	20255	BC024785	Scg3	Mus musc	3507.976	63.775	85.5351
chrX	16728	BC056988	L1cam	Mus musc	4461.706	966.1035	1073.102
chr12	59036	AK199378	Dact1	Mus musc	3981.173	866.3735	1272.818
chr2	18503	AB080656	Pax1	Mus musc	386.2081	78.7535	123.5343
chr6	68235	BC042507	2410066E	Mus musc	5331.186	989.0895	1192.824
chr14	50524	AK077601	Sall2	Mus musc	3576.961	1053.606	1144.976
chr14	N/A	AK200207	N/A	Mus musc	1708.652	437.7127	546.9374
chr9	319477	BC096614	6030419C	Mus musc	5698.148	1172.571	1824.998
chr2	14007	BC026856	Cugbp2	Mus musc	12079.48	3250.284	3875.052
chr3	51938	AK162849	Ccdc39	Mus musc	126.8126	32.5085	40.6846
chr13	218038	AK047144	Amph	Mus musc	53.0209	8.8711	17.0156
chr3	14658	BC027094	Glrp	Mus musc	1674.818	423.2202	537.5115
chr18	15562	BC148470	Htr4	Synthetic	306.7383	48.6365	50.9384
chr4	67586	BC019461	Ubxn11	Mus musc	710.0144	218.2995	227.9935
chr2	227634	XM_97519	Camsap1	PREDICT	3758.305	963.8755	1207.255
chrX	1E+08	AK051847	Gm15246	Mus musc	188.3387	40.4887	60.5009
chr2	13821	AK147272	Epb4.111	Mus musc	7176.502	2306.342	2288.593
chr11	71675	BC055049	0610010F	Mus musc	4935.182	1586.722	1538.746
chr5	381677	BC085134	Vgf	Mus musc	322.9764	103.9935	76.6955
chr7	269854	BC047219	Nat14	Mus musc	1752.601	457.7235	564.4637
chr11	72246	AK132720	1700030C	Mus musc	41.2294	13.2862	11.0969
chr19	80906	DQ148505	Kcnp2	alt 'Al8515	3093.69	532.1095	776.4295
chr8	12398	NM_00110	Cbfa2t3	Mus musc	2398.138	492.4791	540.1417
chr7	75099	AK039294	Lysmd4	Mus musc	118.2275	18.3451	38.1596
chrX	11989	AK077593	Slc7a3	Mus musc	152.3995	29.644	49.2066
chr3	241919	AK163358	Slc7a14	Mus musc	30.1281	8.408	9.7317
chr10	260315	AK122404	Nav3	Mus musc	2519.954	814.1295	750.6741
chr16	545182	AK046786	Gm9861	Mus musc	337.8534	89.6235	109.2515
chr14	320333	AK085928	D830030K	Mus musc	1536.272	497.1275	136.3715
chr7	22141	BC096554	Tub	Mus musc	6104.258	1242.702	1975.506
chr11	N/A	AK208597	N/A	Mus musc	13256.61	3851.57	4290.572
chr11	71059	AK194920	Hexim2	Mus musc	148.8175	31.146	48.1781
chrX	11878	BC052033	Arx	Mus musc	152.6055	26.1207	49.422
chr7	320026	AK083195	A330076H	Mus musc	216.3335	16.5062	70.1256
chr17	74011	AK021314	Slc25a27	Mus musc	2400.032	507.3764	603.9895
chr8	17207	AK170186	Mcf2l	Mus musc	15280.9	4954.01	4163.19
chr11	237761	BC117863	Ankrd43	Mus musc	212.4935	65.9588	35.585
chr8	52815	AK037996	Ldhd	Mus musc	6576.352	1751.596	2132.289
chr16	68238	AK018984	1700123O	Mus musc	22.8057	7.3958	5.1015
chr11	23829	BC118980	C1ql1	Mus musc	205.8672	53.3302	54.3756
chr12	70846	BC100489	4921506M	Mus musc	42.4331	13.7644	13.7018
chr9	244886	BC068128	Al118078	Mus musc	1547.086	265.9906	242.6795
chr16	N/A	AK082117	N/A	Mus musc	43.1508	8.5707	14.0042
chr16	76872	BC057359	Ccdc116	Mus musc	626.0355	193.2819	203.3727
chr3	320478	AK039272	Sox2ot	Mus musc	1080.217	195.5573	351.0455
chr17	224997	AK043683	Dlgap1	Mus musc	24.4091	7.9357	7.2965
chr14	14702	BC021599	Gng2	Mus musc	14277.37	3883.677	4642.643
chr11	237806	NM_00109	Dnahc9	Mus musc	223.4695	22.4858	32.5015
chr19	414097	AK048429	C130060C	Mus musc	73.9003	13.5844	24.0465
chr13	116913	BC100333	Tpbpb	Mus musc	36.1617	11.7682	7.5556

chr16	69101	BC115584	Ydjc	Mus musc	1077.262	289.4038	350.5809
chrX	93761	AK052092	Smarca1	Mus musc	9854.841	2228.979	3207.656
chrX	245684	AK122399	Cnksr2	Mus musc	273.7774	72.4944	89.1235
chr11	12291	AF227530	Cacna1g	Mus musc	405.0155	105.1015	131.8775
chrX	72865	BC031701	Cxx1c	Mus musc	10783.72	2425.705	3511.738
chr2	18227	AK087495	Nr4a2	Mus musc	2436.946	747.8901	793.9491
chr15	73340	BC058962	Nptxr	Mus musc	8808.832	1878.657	2870.509
chr10	216227	AK149687	Slc17a8	Mus musc	347.8695	71.3733	70.1816
chr17	224617	AK036088	Tbc1d24	Mus musc	3273.197	1006.256	1067.036
chr17	433078	XM_48460	Gm5493	PREDICT	41.341	10.2341	13.4776
chr1	71227	AK016201	Wdr69	Mus musc	33.6687	10.5326	9.5494
chr13	320203	AK039679	C130071C	Mus musc	1108.268	60.5129	64.794
chr7	N/A	AK157464	N/A	Mus musc	203.8835	39.704	66.4856
chr6	15893	BC002030	Ica1	Mus musc	1981.432	595.1215	646.4618
chr7	232821	BC018462	Ccdc106	Mus musc	4055.574	1114.06	1324.074
chr10	404634	BC107279	H2afy2	Mus musc	8363.548	2020.943	2734.67
chr2	15429	BC120537	Hoxd1	Mus musc	412.2166	65.134	134.7858
chr9	11808	BC050149	Apoa4	Mus musc	50.3497	16.4654	16.3936
chr8	N/A	AK030405	N/A	Mus musc	1176.298	340.8595	384.7895
chr4	12395	X79989	Runx1t1	M.musculu	14203.51	2796.682	4649.1
chr9	59095	AB032010	Fxyd6	Mus musc	19801.16	4485.666	6014.921
chr13	N/A	BC049749	N/A	Mus musc	24.2512	7.9147	7.9385
chr10	380669	AK133928	Lin28b	Mus musc	100.8815	28.2802	33.0312
chr18	225724	AK162916	Mapk4	Mus musc	131.7935	43.1825	35.4935
chr2	19099	AK147033	Mapk8ip1	Mus musc	9689.504	2404.24	3176.97
chr15	504193	BC152773	Cbx6-Nptx	Synthetic	2825.282	615.8055	926.8715
chr10	N/A	AK138755	N/A	Mus musc	48.4092	15.8835	13.0775
chr2	353282	AK049505	Sfmbt2	Mus musc	125.5102	18.724	41.1855
chr9	59095	BC042579	Fxyd6	Mus musc	20138.81	4810.436	6136.396
chr17	53951	BC092522	Ccdc75	Mus musc	72.9289	8.307	23.9356
chr12	268567	AK151405	Tmem229k	Mus musc	9033.594	2753.258	2958.762
chr3	67306	BC087731	Fam164a	Mus musc	3819.876	1054.781	1255.159
chr8	209966	BC094384	Pgbd5	Mus musc	3253.621	726.5215	1069.55
chr10	544718	AK036288	Gm10937	Mus musc	144.8375	26.8541	37.2058
chr14	75288	AK043617	Slc35f4	Mus musc	64.1061	12.0964	11.09
chrX	353283	BC119277	Eras	Mus musc	64.87	21.347	12.8184
chr7	233045	AK048019	C130030J	Mus musc	124.6015	22.7574	20.3383
chrX	19716	BC061179	Bex1	Mus musc	3877.641	893.2415	1276.839
chr12	69195	BC043474	Tmem121	Mus musc	642.7995	76.3186	211.8097
chr4	13841	AK032973	Epha7	Mus musc	434.0795	100.6395	143.0625
chr6	330267	AK133324	Thsd7a	Mus musc	14082.21	3013.466	4641.206
chr15	1E+08	XM_00147	Gm2824	PREDICT	47.1041	10.4263	15.5278
chr17	106565	BC122518	Dlk2	Mus musc	3718.258	1209.624	1226.058
chr11	19739	BC129898	Rgs9	Mus musc	531.9535	125.4375	175.4247
chr10	18390	DQ868787	Oprm1	alt 'MOP-F	135.5532	16.7407	19.187
chr4	230085	AK038528	N28178	Mus musc	1129.852	177.9279	201.9595
chr14	239096	BC057373	Cdh24	Mus musc	1691.546	449.9715	558.1916
chr1	210933	AK044160	Bai3	Mus musc	80.4077	7.4138	7.8814
chr1	226841	AK140989	Vash2	Mus musc	6868.967	2212.732	2267.504
chr11	237806	AK044263	Dnahc9	Mus musc	70.7695	23.3879	10.9303
chr9	407794	BC061253	BC061253	Mus musc	1806.612	456.0375	597.1715
chr10	18390	EF105313	Oprm1	alt 'MOP-F	156.8575	13.0888	51.8903
chr6	13807	BC031739	Eno2	Mus musc	2266.036	531.3675	651.621

chr1	277328	BC120563	Trpa1	Mus musc	39.4146	13.0398	9.763
chr7	75985	BC017550	Rab30	Mus musc	1214.146	329.3335	402.285
chr2	99031	BC022908	Osbp16	Mus musc	911.2332	204.8555	302.0355
chr11	56077	BC148725	Dgke	Synthetic	3628.221	1202.776	1106.67
chr7	1E+08	XM_00147	Gm1998	PREDICT	252.5555	83.7709	49.8665
chr18	93891	BC031895	Pcdhb20	Mus musc	1095.898	297.5775	363.5901
chr15	52589	AK167313	Ncald	Mus musc	4392.695	1136.754	1458.071
chr9	331033	AK013806	2900079G	Mus musc	301.9875	53.3023	100.2455
chr8	93898	BC132318	Lass1	Mus musc	1426.004	304.6355	473.4709
chr16	224170	AK039172	Dzip3	Mus musc	3521.555	779.3388	1169.315
chr7	68566	AK002979	Caly	Mus musc	444.8455	147.7368	73.1458
chrX	1E+08	XM_00147	Gm14957	PREDICT	1761.306	585.3342	578.7707
chr5	14395	AK021280	Gabra2	Mus musc	380.0975	122.6955	126.4275
chr6	11519	AK160736	Add2	Mus musc	61.4127	12.2257	13.5758
chr8	16532	AK083174	Kcnu1	Mus musc	652.4675	153.7335	217.1975
chr7	233067	BC066999	Lfn3	Mus musc	1704.605	457.0075	567.7495
chr2	18227	AB014889	Nr4a2	Mus musc	1526.988	452.9255	508.6115
chr10	23805	AK140637	Apc2	Mus musc	139.4956	10.1094	16.6883
chr13	193452	BC053084	Zfp184	Mus musc	2564.206	547.3095	854.3871
chr9	214058	AK122555	Megf11	Mus musc	420.8915	94.0375	140.3334
chr2	227580	BC024634	C1ql3	Mus musc	1642.644	360.9495	548.3175
chr6	15400	Y11717	Hoxa3	M.musculu	5600.928	1870.237	1429.81
chr2	N/A	AK043780	N/A	Mus musc	356.7095	117.6815	119.1675
chr10	22295	AY026062	Cdh23	Mus musc	165.9675	55.5018	42.759
chr6	243621	AK147268	Iqsec3	Mus musc	95.3575	18.6067	31.9178
chr5	231583	BC022130	Slc26a1	Mus musc	492.8072	165.1315	127.1074
chr10	109205	BC057055	Sobp	Mus musc	5760.327	1294.212	1930.516
chr14	432825	BC060995	Gm5458	Mus musc	503.7755	168.9011	82.8015
chr16	14805	AK044706	Grik1	Mus musc	105.4835	14.7757	10.7296
chr11	19739	AF011358	Rgs9	Mus musc	59.2912	8.0738	19.8851
chr4	381538	XM_97812	Gm1027	PREDICT	182.5795	41.2272	61.2967
chr8	234214	AK079130	Sorbs2	Mus musc	1000.717	235.8995	335.9744
chr2	76654	AK044005	Upp2	Mus musc	22.2496	7.4729	6.8872
chr9	67703	AK122566	Kirrel3	Mus musc	75.6155	12.2388	15.6497
chrX	56526	AK048455	Sept6	Mus musc	211.0817	65.8839	71.0028
chr14	320249	AK051495	D13000911	Mus musc	73.2995	15.3544	13.2917
chr1	215690	BC028801	Nav1	Mus musc	3104.328	807.0015	958.6035
chr11	217340	BC053070	Rnf157	Mus musc	9351.155	1958.393	3154.362
chr15	1E+08	XM_00147	Gm2093	PREDICT	208.4015	70.3316	51.2318
chr14	26419	BC053027	Mapk8	Mus musc	11644.72	3620.199	3850.636
chr3	78635	AK018929	1700095B2	Mus musc	60.9308	20.5842	10.5373
chr12	238161	BC057114	Akap6	Mus musc	10005.25	2004.156	3380.784
chr6	60531	BC116905	Npvf	Mus musc	69.8385	23.6125	17.4443
chr3	214459	AK152002	Fnbp1l	Mus musc	9471.467	2976.607	3203.668
chr1	24012	BC051133	Rgs7	Mus musc	4097.444	1386.435	186.0415
chr7	69017	NM_00110	Prrt2	Mus musc	3167.238	620.6349	1072.194
chr10	N/A	AK164315	N/A	Mus musc	131.8459	13.3605	44.6355
chr14	26419	AB219977	Mapk8	Mus musc	4372.127	1480.834	1448.95
chr12	110893	AK044636	Slc8a3	Mus musc	1741.788	403.9464	590.0275
chr1	24012	DQ139285	Rgs7	alt '-'	2359.399	799.3095	75.282
chr3	229302	BC010814	Tm4sf4	Mus musc	57.874	17.635	13.6976
chr4	69638	BC021944	Enho	Mus musc	4271.928	1118.052	1447.916
chr1	70729	NM_00110	Nos1ap	Mus musc	1344.33	170.1715	189.1875



chr4	14084	BC065098	Faf1	Mus musc	1392.54	457.586	472.6675
chr8	234542	BC022744	Rtbdn	Mus musc	171.8769	50.9943	58.3739
chr11	107476	AJ619664	Acaca	Mus musc	285.9986	50.216	97.1755
chr4	74438	BC062923	Rlbp111	Mus musc	4551.945	1081.234	1546.788
chr16	93734	AK136449	Mpv17l	Mus musc	1291.609	439.0226	355.9988
chr15	378937	BC116884	Lrrc24	Mus musc	2009.198	607.3095	683.0635
chr10	59093	BC042440	Pcbp3	Mus musc	2428.284	728.5755	825.6235
chr18	108052	BC058594	Slc14a1	Mus musc	304.5795	62.7163	75.7995
chr13	20745	AK049019	Spock1	Mus musc	127.1515	14.0143	33.2694
chr17	N/A	AK048886	N/A	Mus musc	226.6195	77.0835	63.3582
chr3	242253	BC132106	Wdr63	Mus musc	46.1502	14.7623	15.7001
chr16	268860	AK160802	Abat	Mus musc	48.2698	10.3836	16.4257
chr16	93734	AK144372	Mpv17l	Mus musc	1274.608	422.0193	433.8466
chr12	110893	AK165197	Slc8a3	Mus musc	2209.246	525.0115	752.1458
chr13	56320	AF187147	Dbn1	Mus musc	17550.63	4444.992	5975.252
chr11	217310	BC024617	C630004H	Mus musc	2018.456	687.5875	604.4635
chr2	58237	EF058057	Nkain4	alt 'AB030	673.0658	128.1595	229.3775
chr8	1E+08	XM_00147	Gm3624	PREDICTI	115.8975	39.5169	28.2463
chr11	22678	AK131978	Zfp2	Mus musc	1038.477	329.1195	354.1413
chr3	18167	BC104490	Npy2r	Mus musc	483.8755	165.0195	145.4026
chr7	72242	BC100324	Psg21	Mus musc	194.9355	59.4193	66.4997
chr11	67927	XM_00148	1700096J1	PREDICTI	113.8242	38.8399	18.0571
chr4	18710	BC053102	Pik3r3	Mus musc	3292.709	1087.641	1123.574
chr12	20688	BC076630	Sp4	Mus musc	1476.324	400.8715	503.8115
chr12	245297	BC083083	Gm4983	Mus musc	1540.118	525.7195	421.9915
chrX	236727	BC058750	Slc9a7	Mus musc	990.9855	189.914	338.4395
chr15	59033	BC030388	Slc4a8	Mus musc	2914.004	534.038	378.6735
chr13	22151	BC055441	Tubb2a	Mus musc	19735.67	5526.248	6598.028
chr1	19775	AK141660	Xpr1	Mus musc	5398.394	1325.48	1358.738
chr15	23934	AK034884	Ly6h	Mus musc	78.3489	11.3968	18.9406
chr7	233058	BC055817	Zfp420	Mus musc	1404.664	445.3575	480.6547
chr13	67310	BC064762	Pr18a9	Mus musc	76.2401	24.9828	26.0887
chr17	20681	BC085619	Sox8	Mus musc	860.8083	125.0155	294.6375
chr19	16594	AK141439	Klc2	Mus musc	5294.174	1812.445	1658.754
chr12	382686	AK148766	3110053B	Mus musc	598.63	204.9675	197.3155
chr6	N/A	AK137583	N/A	Mus musc	968.1306	278.8309	331.5535
chr12	245297	BC030401	Gm4983	Mus musc	1784.716	611.4702	412.9991
chr15	239510	AK047044	Phf20l1	Mus musc	467.8815	105.6715	160.3415
chr4	100213	BC024790	Rusc2	Mus musc	4399.946	1310.118	1507.946
chr4	384059	BC131921	Tlr12	Mus musc	276.6695	94.8395	82.4455
chr7	17537	BC117532	Meis3	Mus musc	3135.352	730.5844	1075.542
chr7	435965	NM_00102	Lrp3	Mus musc	6283.02	1552.703	2157.14
chr4	16559	AK077868	Kif17	Mus musc	393.5535	135.2255	112.4015
chr2	320271	AK082408	Scal	Mus musc	4152.432	1172.674	1427.923
chr18	69391	XM_00147	1700018A	PREDICTI	93.1506	17.8193	32.0555
chr15	22762	BC059241	Zfpm2	Mus musc	247.5775	85.2586	83.3835
chr11	75395	AK002860	0610040B	Mus musc	741.6996	157.6955	255.9935
chr5	N/A	AK042124	N/A	Mus musc	136.5875	24.0811	47.1501
chr14	14942	BC141594	Gzme	Synthetic	48.3036	16.6753	8.1811
chr9	270120	BC117744	Fat3	Mus musc	376.4727	97.5095	129.9655
chr3	210529	AK083169	Mettl14	Mus musc	407.7196	122.2935	117.5375
chr13	69315	XM_12741	1700001L1	PREDICTI	67.3678	10.9044	23.2671
chr11	11302	AB288871	Aatk	Mus musc	4226.824	1459.891	1446.726

chr1	269209	AK086716	Stk36	Mus musc	728.8843	206.4881	251.8195
chr10	N/A	AK138328	N/A	Mus musc	72.8836	20.9943	14.9156
chr4	69807	BC034104	Trim32	Mus musc	6964.842	1833.896	2410.731
chr3	329782	AK016265	4930570G	Mus musc	27.0126	6.216	9.2387
chr4	381591	BC156606	L1td1	Synthetic	65.1976	22.5845	12.9514
chr10	109205	BC059851	Sobp	Mus musc	4714.903	979.4315	1633.679
chr3	74718	BC019424	Snx16	Mus musc	8359.21	2354.972	2898.239
chr16	268878	BC115739	Atp13a5	Mus musc	338.3575	104.2955	117.3498
chr1	627872	Z83810	Dnahc7a	M.muscul	195.8935	57.0307	67.9476
chr12	71581	AK018624	9130015A2	Mus musc	38.253	9.7795	12.8613
chr14	1E+08	XM_00147	Gm3339	PREDICT	2996.604	1039.968	406.9955
chr14	319903	AK051464	9630013A2	Mus musc	152.9355	35.9855	53.1564
chr14	N/A	AF296659	N/A	Mus musc	83.2735	23.4911	23.5816
chr14	213469	AK163664	Lgi3	Mus musc	324.5918	112.8515	97.7455
chr7	17537	AK134758	Meis3	Mus musc	6406.928	1634.2	2228.29
chr18	104082	BC125573	Wdr7	Mus musc	10779.55	3627.336	3754.608
chr7	80982	AY007814	9930013L2	alt '12H19	636.0775	221.6045	216.0535
chr10	103172	BC083357	Chchd10	Mus musc	351.0455	122.3135	95.0815
chr11	237930	BC132203	Ttll6	Mus musc	36.9081	12.8613	11.6002
chrX	N/A	AK209647	N/A	Mus musc	2385.698	688.2353	831.3815
chr1	240726	BC117943	Slco5a1	Mus musc	70.5475	9.5031	13.0238
chr4	73332	AK015391	Ccdc30	Mus musc	37.7534	10.1681	8.1297
chr15	52589	BC011162	Ncald	Mus musc	4198.426	1085.314	1463.95
chr14	1E+08	XM_00147	Gm3424	PREDICT	803.2435	280.1135	117.0075
chr4	230735	BC119084	Epha10	Mus musc	226.1034	78.8658	27.6393
chrX	320707	BC118975	Atp2b3	Mus musc	411.2975	92.5119	143.6235
chrX	279706	BC100367	Nup62cl	Mus musc	70.2438	17.0404	24.581
chr5	75873	XM_00147	4930568B	PREDICT	174.1775	59.6985	60.9552
chr18	13506	AK028604	Dsc2	Mus musc	3104.088	1074.254	1086.757
chr19	67483	BC049563	1700028P	Mus musc	71.7056	20.7276	18.9684
chr10	17179	D45243	Matk	Mus musc	1552.108	266.6539	353.0432
chr10	11994	DQ354405	Pcdh15	Mus musc	81.0271	25.7199	28.3862
chr18	N/A	BC134356	N/A	Mus musc	29725.16	8071.57	10416.79
chr1	23797	BC066861	Akt3	Mus musc	5624.456	1152.489	1972.682
chr8	382019	BC080687	Gm15468	Mus musc	1257.652	357.4955	441.3055
chr8	64933	BC027301	Ap3m2	Mus musc	5524.576	1562.483	1938.81
chr6	N/A	BC091771	N/A	Mus musc	223.153	70.7737	78.3335
chr15	19009	AY259047	Pou6f1	Mus musc	1595.582	560.2835	500.8215
chr7	29877	BC055734	Hdgfrp3	Mus musc	14745.15	2076.61	2998.982
chr3	78635	XM_00147	1700095B2	PREDICT	112.2395	39.4736	38.1027
chr9	70455	AK011865	2610203C2	Mus musc	3747.216	1107.05	1318.68
chr11	56077	BC140301	Dgke	Synthetic	3013.466	1060.486	998.4595
chr6	101187	AK151393	Parp11	Mus musc	5807.238	1972.012	2043.931
chr4	76992	XM_00147	1700066J2	PREDICT	4467.272	1572.511	1473.173
chr2	108871	AK076779	4930447M	Mus musc	123.7935	17.5473	43.5833
chr2	209630	AK163887	Frmd4a	Mus musc	99.1328	34.9155	33.7321
chr11	16568	AM231689	Kif3a	Mus musc	4278.72	1449.856	1507.834
chr2	277396	BC072626	Kihl23	Mus musc	3489.143	842.0738	1229.914
chr13	328191	AK045681	B230303A	Mus musc	21.1841	7.3619	5.0594
chr11	26420	BC028341	Mapk9	Mus musc	6067.89	2140.404	1950.192
chr9	1E+08	XM_00147	LOC10004	PREDICT	157.5192	43.8193	55.6097
chr10	319468	AK150309	Ppm1h	Mus musc	1417.149	500.3115	472.9195
chr7	258352	BC119096	Olfr692	Mus musc	80.6844	28.533	17.2683



chr1	227327	BC060507	B3gnt7	Mus musc	335.2435	99.0437	118.5595
chr19	104174	BC017135	Gldc	Mus musc	2913.082	726.6192	955.6355
chr9_randc	66396	AK141751	Ccdc82	Mus musc	538.8433	108.5425	171.7235
chr5	319387	AK051766	Lphn3	Mus musc	38.1604	7.3662	13.5008
chr13	56795	BC115498	Arl10	Mus musc	5488.808	1620.734	1942.086
chr15	319613	AK029072	5730410E	Mus musc	3784.775	1091.66	1339.264
chr1	240776	AK054538	Kcnt2	Mus musc	189.0635	65.364	66.9138
chr14	73989	AK015444	4930452G	Mus musc	49.1727	12.7771	17.4102
chr7	22718	BC031754	Zfp60	Mus musc	2163.37	664.5755	766.8315
chrX	13497	AK158102	Drp2	Mus musc	1078.858	131.9895	253.9815
chr8	78506	XM_35787	Efha2	PREDICT	1784.178	568.2458	632.9015
chr11	207592	BC057634	Tbc1d16	Mus musc	3387.86	1011.873	1098.258
chr5	639545	XM_97434	Gm7271	PREDICT	24.6896	6.1129	8.7675
chr18	75533	AK006111	Nme5	Mus musc	309.6946	109.8675	110.0086
chrX	382265	XM_35637	Gm5167	PREDICT	892.9795	317.3948	295.9524
chr12	544848	AK149188	Gm5784	Mus musc	1031.76	366.8381	302.4288
chr18	93886	BC066178	Pcdhb15	Mus musc	353.0229	68.0277	125.5415
chrX	94190	AK048153	Ophn1	Mus musc	85.0292	26.5573	14.6302
chr8	330830	BC117983	Ccdc135	Mus musc	158.673	31.0839	56.4311
chr9	74125	AK083094	Armc8	Mus musc	714.8231	165.3715	230.4875
chr14	N/A	M26448	N/A	Mus musc	200.0755	71.2052	44.3918
chr8	209176	BC026393	Ido2	Mus musc	203.5435	37.5815	72.4876
chr14	219170	BC120488	AU021034	Mus musc	41.1162	14.6433	10.168
chr16	71911	AK146962	Bdh1	Mus musc	4601.98	1640.219	1634.408
chr8	71069	BC099949	Stox2	Mus musc	5368.112	1680.062	1914.314
chr5	231861	BC049818	Tnrc18	Mus musc	3060.928	793.4755	766.1375
chr7	12348	BC019393	Car11	Mus musc	4157.6	891.0855	1020.218
chr15	239652	BC112418	Zfp641	Mus musc	5505.396	1966.572	1797.26
chr4	21894	BC059711	Tln1	Mus musc	4711.726	1683.27	1618.748
chrX	245404	AK047360	Dcaf12i1	Mus musc	1201.32	429.3448	395.6495
chr18	104082	AK154451	Wdr7	Mus musc	1156.762	341.2235	413.7218
chr2	74959	AK015665	4930500J0	Mus musc	190.0995	68.004	41.7535
chr1	16008	BC054473	Igfbp2	Mus musc	1810.949	527.5855	648.1694
chr9	71687	BC060243	Tmem25	Mus musc	757.4675	159.0754	176.0375
chrX	331528	AK044164	LOC33152	Mus musc	32.9327	8.2071	11.7929
chr15	15423	AK141658	Hoxc4	Mus musc	2755.634	987.284	840.5275
chr5	80752	BC004044	Fam20c	Mus musc	1148.399	410.0135	411.4555
chr10	52696	BC027100	Zwint	Mus musc	18514.92	6636.19	6374.04
chr1	24012	DQ139288	Rgs7	alt '-'	2190.575	785.2493	70.4836
chr4	70725	AK018156	6330411D	Mus musc	49.3362	13.9674	17.7023
chr4	1E+08	XM_00147	Gm13306	PREDICT	1009.896	362.4429	273.1354
chr9	73410	BC053441	1700065D	Mus musc	123.5895	44.3759	35.8824
chr13	19418	BC156258	Rasgrf2	Synthetic	950.6855	177.0415	126.4615
chr5	215707	BC021492	Ccdc92	Mus musc	4066.9	1105.846	1461.546
chr5	625464	XM_89460	Gm6588	PREDICT	52.7789	9.9318	18.9678
chrX	210297	AK122516	Lrch2	Mus musc	1725.064	342.2727	620.2895
chr7	1E+08	AK038478	9330171B	Mus musc	228.9515	82.3255	69.3418
chr9	19659	BC091751	Rbp1	Mus musc	7975.171	2714.372	2870.1
chr7	18218	BC052705	Dusp8	Mus musc	1128.49	209.6648	406.2811
chr7	258591	BC104092	Olfr695	Mus musc	44.7317	16.1049	9.1538
chr6	243373	BC145738	Al854703	Mus musc	1173.192	232.6972	148.8655
chr6	12661	BC060216	Chl1	Mus musc	6539.388	1488.482	1526.988
chr10	67405	BC043024	Nts	Mus musc	694.3418	222.5495	250.2377

chr11	15407	BC103597	Hoxb1	Mus musc	122.6618	31.8281	37.8828
chr7	18987	AY746974	Pou2f2	alt 'MGC1	579.5703	209.0044	138.6835
chrX	382245	BC058428	Tmem29	Mus musc	665.8075	205.2635	240.1086
chr3	60365	NM_00110	Rbm8a	Mus musc	3216.104	943.2895	1161.597
chr2	14417	AK136834	Gad2	Mus musc	35.7736	5.8979	6.1189
chr2	56177	BC026547	Olfm1	Mus musc	14040.23	3746.724	5073.112
chr2	22431	DQ537939	Wt1	Mus musc	172.1485	56.5255	62.2384
chr18	22240	AK077000	Dpysl3	Mus musc	35851.93	12699.54	12970.45
chr5	246316	AY841361	Lgi2	alt 'mKIAA	907.3795	230.8141	269.2075
chr2	N/A	AK143234	N/A	Mus musc	94.1833	17.2792	19.5057
chr16	20621	BC006961	Snn	Mus musc	11107.13	4022.443	3772.094
chr6	101187	AK133697	Parp11	Mus musc	1548.828	561.3324	484.3555
chr12	69732	AK010549	2410018L1	Mus musc	1251.071	391.7815	453.4635
chr7	434156	XM_99451	Eid2b	PREDICT	4545.544	1648.068	1435.202
chr2	N/A	AK148286	N/A	Mus musc	534.9214	160.0755	194.0212
chr15	52589	AK034031	Ncald	Mus musc	4063.41	1132.42	1474.136
chrX	594844	BC027131	Tceal3	Mus musc	2985.66	861.8095	1083.338
chr3	214459	BC034510	Fnbp1l	Mus musc	10250.72	3171.11	3720.618
chr4	230777	BC119583	Hcrtr1	Mus musc	82.3806	29.9139	21.1453
chr8	54384	BC032254	Mtmr7	Mus musc	2329.792	706.1943	846.3915
chrX	236794	AK028350	Slc9a6	Mus musc	6248.614	1910.82	2156.463
chr3	56195	BC010255	Ptbp2	Mus musc	10631.9	2215.696	3089.608
chr9	56404	AK166192	Trip4	Mus musc	137.1908	18.7991	49.8638
chr10	15468	BC125275	Prmt2	Mus musc	17582.35	5410.938	6391.818
chr2	381356	AK043562	5930434B0	Mus musc	997.0711	362.8131	285.6815
chr2	241230	BC115912	St8sia6	Mus musc	811.2955	261.3959	258.5786
chr3	329782	XM_00147	4930570G	PREDICT	100.5195	20.2726	33.9342
chr4	230259	BC037070	E130308A	Mus musc	2162.831	691.3815	787.1455
chrX	19893	AK046821	Rpgr	Mus musc	4016.433	1416.481	1462.602
chr14	219228	AK133637	Pcdh17	Mus musc	124.7415	29.0942	45.4315
chr11	78473	AK153578	Skap1	Mus musc	94.8024	34.5306	19.4937
chr14	N/A	M36902	N/A	Mouse ser	68.6357	23.8343	25.0117
chr10	93765	BC132630	Ube2n	Mus musc	6879.054	2013.118	2511.006
chr11	70451	AK046465	Dhrs13	Mus musc	617.7052	225.5943	218.8657
chr6	20965	BC085129	Syn2	Mus musc	908.1975	331.6915	236.93
chr7	628854	BC049735	Gm15517	Mus musc	158.5455	57.9041	50.0767
chr14	72545	BC038474	2700008G	Mus musc	2939.064	852.8675	1073.754
chr14	50524	BC085361	Sall2	Mus musc	9598.608	2827.792	3507.262
chr2	99326	BC057383	Garnl3	Mus musc	57.5303	17.3734	19.9131
chr2	353282	AK147557	Sfmbt2	Mus musc	748.4541	167.3055	273.5735
chr19	14585	BC044783	Gfra1	Mus musc	2314.034	544.3875	845.9583
chr13	71816	AK152404	Rnf180	Mus musc	1066.033	299.3855	389.8195
chr7	18751	BC127083	Prkcb	Mus musc	5092.174	1064.477	1746.344
chr6	65255	AK076004	Asb4	Mus musc	3060.616	1022.67	1119.379
chr13	71816	BC075700	Rnf180	Mus musc	3688.631	1102.359	1349.296
chr18	N/A	AK046168	N/A	Mus musc	41.7376	12.3049	14.8218
chr9	22774	D78174	Zic4	Mus musc	669.9694	190.0921	149.5575
chr2	320271	BC132485	Scal	Mus musc	3751.466	1110.852	1374.264
chr12	110893	BC052435	Slc8a3	Mus musc	3017.434	737.7692	1105.374
chr3	545527	AK133299	4932431H	Mus musc	161.7615	49.7049	59.2674
chr6	16494	BC048782	Kcna6	Mus musc	1943.335	495.0869	712.4355
chr1	98388	AK047378	Chst10	Mus musc	86.376	25.3196	31.6684
chr13	N/A	AK049017	N/A	Mus musc	19.7635	6.8971	7.2473

chr14	622931	AK084071	Gm10021	Mus musc	740.5086	271.5495	151.4386
chr12	69732	BC063063	2410018L1	Mus musc	3200.053	1175.416	896.0775
chr7	108797	XM_62051	Mex3b	PREDICT	8172.044	1794.176	3001.934
chr2	435684	BC042839	Shf	Mus musc	3589.476	1203.744	1318.827
chr11	17268	AK140748	Meis1	Mus musc	21224.32	6747.918	7798.154
chr7	233058	AK045821	Zfp420	Mus musc	1800.572	584.2423	661.6585
chr17	381107	BC050244	E130009J1	Mus musc	53.2543	19.5728	16.5615
chr7	330552	AK086712	Gm9801	Mus musc	35.9351	13.2166	12.3508
chr10	15364	BC069985	Hmga2	Mus musc	1332.182	415.8567	490.3495
chr7	70054	XM_13359	Ccdc89	PREDICT	134.2095	29.8181	49.4171
chr14	666549	XM_98454	Gm8159	PREDICT	535.1368	197.0575	99.4755
chr1	211484	BC066782	Tsga10	Mus musc	41.0568	10.3478	11.681
chr16	93734	BC037713	Mpv17l	Mus musc	1243.996	458.2055	457.8841
chr7	78880	AK021007	B230218P	Mus musc	23.2544	8.3877	6.3569
chr7	73845	AK029511	Ankrd42	Mus musc	1010.792	347.4988	372.5975
chr10	216233	AK033206	Socs2	Mus musc	393.0815	85.6615	144.9215
chr11	170740	BC117876	Zfp287	Mus musc	2082.716	535.8515	768.3915
chr19	73442	BC030362	Hspa12a	Mus musc	4245.358	1567.91	1391.358
chrX	73061	BC027572	3110007F1	Mus musc	861.0595	279.8517	318.2072
chr16	17174	AK043055	Masp1	Mus musc	1310.41	318.9775	484.3075
chr3	54524	AK044551	Syt6	Mus musc	130.5615	28.2287	45.1413
chr14	1E+08	XM_00147	Gm3411	PREDICT	3240.446	1198.229	751.6855
chr4	73332	AK224942	Ccdc30	Mus musc	49.6363	16.6613	15.6436
chr10	237387	BC115652	Lrrc3	Mus musc	1035.811	244.183	383.3815
chr14	N/A	AK133078	N/A	Mus musc	43.3257	16.059	7.4365
chr7	1E+08	XM_00147	Gm2043	PREDICT	245.2457	90.9155	68.6466
chr12	1E+08	XM_00148	Gm4419	PREDICT	196.2843	72.7996	57.3445
chrX	93761	BC057115	Smarca1	Mus musc	1541.702	353.3995	572.3955
chr14	1E+08	XM_00147	Gm3424	PREDICT	802.9195	298.1315	145.8975
chr19	N/A	AK142879	N/A	Mus musc	71.1285	12.0828	14.307
chr5	11496	NM_00109	Adam22	Mus musc	2758.385	586.8455	1025.35
chr1	66620	AK011913	2610207O	Mus musc	294.8124	16.8705	57.0507
chr10	74978	AK015687	Lrriq1	Mus musc	61.6888	13.2823	22.9386
chr14	1E+08	XM_00147	Gm2244	PREDICT	949.5515	353.2699	118.2635
chr1	29819	BC025118	Stau2	Mus musc	7439.192	2767.886	2505.075
chr9	N/A	AK076840	N/A	Mus musc	27.6437	10.2891	9.8293
chr4	1E+08	XM_00147	Gm2542	PREDICT	2182.237	477.5595	397.084
chr2	241494	BC048543	Zfp385b	Mus musc	712.8435	131.3775	265.4291
chr14	1E+08	XM_00147	Gm3115	PREDICT	618.4407	230.3029	92.9615
chr15	75729	AK046478	4933432B0	Mus musc	188.4155	69.8468	70.2016
chr3	N/A	AK076759	N/A	Mus musc	96.2335	31.2377	29.9507
chr9	215446	BC079871	Entpd3	Mus musc	460.0735	72.0316	114.5883
chr1	269209	BC043103	Stk36	Mus musc	941.608	299.9475	351.2575
chr12	N/A	AK034421	N/A	Mus musc	35.509	9.3492	7.5155
chr7	66333	BC152864	Aqp11	Synthetic	1570.138	585.7955	368.6915
chr2	17153	BC006826	Mal	Mus musc	2324.654	695.5795	867.8775
chr8	69528	BC049630	1700030J2	Mus musc	666.3775	206.3807	248.928
chr4	20301	AK005398	Ccl27a	Mus musc	1068.845	399.4335	245.3115
chr17	1E+08	XM_00148	Gm4712	PREDICT	41.9654	10.3211	15.6849
chr4	12164	AK038590	Bmp8b	Mus musc	229.9158	68.7501	77.4775
chr4	100072	AK132560	Camta1	Mus musc	9717.181	2857.264	3632.748
chr1	16579	AK133957	Kifap3	Mus musc	5307.82	1648.92	1984.66
chr8	234214	AK011482	Sorbs2	Mus musc	32.085	11.9978	6.9361

chr10	76877	BC119094	Rab36	Mus musc	1179.158	305.3535	441.1677
chr7	12727	AK160325	Clcn4-2	Mus musc	1233.502	419.3135	419.9355
chr6	243725	AK030399	Ppp1r9a	Mus musc	4215.313	1579.3	1500.848
chr1	N/A	AK039030	N/A	Mus musc	85.532	29.7916	32.0523
chr4	19891	AK011530	Rpa2	Mus musc	241.9888	76.1115	90.7495
chr12	26380	BC132595	Esrrb	Mus musc	505.1495	128.1897	189.5035
chr5	209707	AK042567	Lcorl	Mus musc	1146.938	430.2995	397.2975
chr2	18508	AK080416	Pax6	Mus musc	203.0259	76.1891	43.6031
chr15	54562	BC046277	Lrrc6	Mus musc	45.3955	17.0404	11.4922
chr3	229644	BC057358	Trim45	Mus musc	940.5875	294.6775	353.4195
chr7	664857	XM_00147	9330101J0	PREDICT	18.1032	6.8036	6.6428
chrX	237246	XM_13614	BC022960	PREDICT	487.3687	126.7631	183.1755
chr7	434249	XM_48920	Gm5602	PREDICT	153.5715	57.7278	50.0344
chr19	71768	XM_88927	Vwce	PREDICT	93.7411	12.2796	35.2541
chr11	74341	AK036110	G630025P	Mus musc	261.9235	80.909	98.5395
chr14	66435	BC110672	Uggt2	Mus musc	717.7517	184.6195	270.0417
chr9	235086	AK220364	Igsf9b	Mus musc	163.6507	34.2814	34.494
chr16	268859	AY659957	A2bp1	Mus musc	8624.072	2286.975	3245.864
chr2	1E+08	XM_00147	Gm4086	PREDICT	83.0115	22.6665	15.3112
chr19	1E+08	AK043996	AA387883	Mus musc	47.4428	16.4823	17.8702
chr6	243548	BC145754	Prickle2	Mus musc	6057.082	1932.906	2282.442
chr16	207683	BC057555	Igsf11	Mus musc	780.229	199.188	294.2495
chr17	66119	BC021590	Tomm6	Mus musc	1341.004	502.2912	505.9355
chr4	20970	BC062093	Sdc3	Mus musc	22580.84	5185.116	5850.8
chr19	14585	BC054378	Gfra1	Mus musc	7578.37	1664.084	2860.242
chr15	N/A	AK131781	N/A	Mus musc	22.6125	7.359	5.842
chrX	245403	BC146331	Dcaf12l2	Synthetic	430.7095	137.4056	162.6575
chr4	545611	NM_00108	Gm13298	Mus musc	251.4255	78.5698	72.7916
chr14	14180	BC099874	Fgf9	Mus musc	760.1594	219.8835	287.2689
chr5	11496	AB179862	Adam22	Mus musc	627.8335	133.7995	237.3113
chr13	13612	AK045088	Edil3	Mus musc	65.9879	16.9448	24.9461
chrX	53623	BC076584	Gria3	Mus musc	3108.912	683.1855	1176.094
chr4	71901	AK134737	2310028H	Mus musc	10051.33	3283.184	3364.577
chr15	76510	AK029106	Trappc9	Mus musc	264.6069	69.5137	82.9355
chr17	18754	AK082438	Prkce	Mus musc	9788.272	3705.988	2875.388
chr5	16885	AK170166	Limk1	Mus musc	2812.128	977.4275	1065.124
chr12	268534	AK008673	Sntg2	Mus musc	291.9415	71.7309	110.5835
chr6	16494	BC054804	Kcna6	Mus musc	3712.938	968.591	1407.562
chrX	1E+08	XM_00147	5330434G	PREDICT	65.7259	17.0479	18.9947
chr16	74684	AK154225	4930451G	Mus musc	570.5015	216.3175	197.098
chr14	1E+08	XM_00147	Gm3453	PREDICT	1570.554	595.5507	294.3895
chr8	330814	AK147455	Lphn1	Mus musc	8760.629	2483.934	3322.394
chrX	236794	BC130221	Slc9a6	Mus musc	6682.866	2535.029	2415.146
chr17	193736	BC062159	Zbtb12	Mus musc	5108.99	1636.983	1938.381
chr8	16525	BC003729	Kcnk1	Mus musc	1438.114	424.8292	545.6695
chr11	72290	BC094286	Lsm11	Mus musc	2596.732	827.6153	985.3136
chr9	68283	BC054761	9530077C	Mus musc	628.7315	99.7092	238.5855
chr2	17242	M19662	Mdk	Mouse ref	3682.524	1235.098	1397.464
chr19	13340	AK144451	Slc29a2	Mus musc	1040.324	340.2235	394.8355
chr12	76820	AK047142	Fam49a	Mus musc	3897.279	1404.481	1304.899
chr11	21408	BC087540	Zfp354a	Mus musc	635.5255	149.0015	241.3575
chr7	80982	BC115873	9930013L2	Mus musc	438.2441	161.3095	166.4835
chrX	14168	AK141848	Fgf13	Mus musc	6088.342	1389.122	2313.432



chr10	432460	XM_48389	Gm5423	PREDICT	10222.37	3008.162	3081.958
chr18	93887	BC116625	Pcdhb16	Mus musc	1419.738	334.1035	539.5415
chr7	112415	BC060708	C030039L	Mus musc	810.8417	242.6335	308.381
chr6	12288	AB259051	Cacna1c	Mus musc	1138.757	288.8195	433.2755
chr10	59093	AK034811	Pcbp3	Mus musc	6389.038	2007.856	2431.358
chr9	22063	AF191551	Trpc1	Mus musc	609.8476	193.7955	232.2092
chr8	66901	BC024104	Proz	Mus musc	654.1715	243.2919	249.093
chr10	74978	XM_00147	Lrriq1	PREDICT	62.6444	9.7317	23.8628
chr2	353282	AK052339	Sfmbt2	Mus musc	642.848	205.5135	244.8875
chr14	239102	BC072611	Zfhx2	Mus musc	1398.55	530.2275	532.881
chr3	N/A	AK137033	N/A	Mus musc	193.8915	52.9008	73.9475
chr8	68867	BC038399	Rnf122	Mus musc	447.9315	92.4615	170.8476
chr2	227659	AK163445	Slc2a6	Mus musc	955.9221	291.5055	364.6659
chr18	74644	AK156636	4930426D	Mus musc	274.7575	73.7775	104.8195
chr2	228071	BC044853	Sestd1	Mus musc	5467.596	2087.2	2075.202
chr7	101565	AK172946	6330503K	Mus musc	2353.79	611.3495	898.6195
chr15	11514	AK163443	Adcy8	Mus musc	33.5244	12.7999	9.2563
chr7	66930	BC046278	Fank1	Mus musc	99.8715	38.134	23.7535
chr5	N/A	AB294523	N/A	Mus musc	957.6235	133.1075	203.5315
chrX	245469	BC056462	Pdzd4	Mus musc	5573.256	1272.818	1508.34
chr16	207227	AK043658	Stxbp5l	Mus musc	16.3725	6.0533	6.0866
chr9	320429	BC086653	Trank1	Mus musc	1602.908	305.1535	613.7879
chr7	664857	AK160681	9330101J	Mus musc	48.6219	18.6188	15.7833
chr6	12288	L06233	Cacna1c	Mus musc	1887.322	467.8575	722.8879
chr3	70762	AK188709	Dclk2	Mus musc	1429.058	289.5755	547.3921
chr18	269037	AK172949	Gm672	Mus musc	3246.602	1106.887	1243.614
chr5	209683	AK187371	Ttc28	Mus musc	446.4495	171.0375	124.9275
chr6	70821	BC055110	4921507P	Mus musc	1320.506	506.0135	282.4549
chr8	67801	BC024534	Pilp	Mus musc	274.7035	102.1171	101.5515
chr14	56410	BC065108	Cbln3	Mus musc	93.4515	14.8936	35.822
chr11	75304	AK043242	4930563E	Mus musc	203.2025	42.8563	77.8939
chrX	236733	AK049053	Usp11	Mus musc	183.9975	67.9655	70.5396
chr12	104871	BC046960	Spata7	Mus musc	1433.068	549.4335	526.5135
chr6	N/A	AK050809	N/A	Mus musc	43.3548	10.342	9.6484
chr10	N/A	AK140549	N/A	Mus musc	93.2499	28.0918	35.7762
chr11	268451	BC152733	Rab11fip4	Synthetic	3656.533	360.4895	359.5995
chr15	207785	BC035295	Csrnp2	Mus musc	1392.25	459.2555	534.9315
chr11	74518	AK018427	8430419K	Mus musc	65.2233	16.7569	25.0639
chr14	1E+08	XM_00147	Gm3115	PREDICT	550.5075	211.5935	102.0115
chr14	50769	AK016508	Atp8a2	Mus musc	54.2791	20.8732	17.9086
chr8	436049	XM_48814	Gm5741	PREDICT	117.501	45.1979	42.7969
chr8	71069	AK041405	Stox2	Mus musc	4373.913	1598.746	1683.27
chr16	69101	BC030425	Ydjc	Mus musc	1096.256	349.9686	422.4695
chr15	239420	AK015672	Csmd3	Mus musc	32.911	11.1983	12.5229
chr17	1E+08	XM_00147	Gm2885	PREDICT	62.3544	23.9776	19.6018
chr3	22239	AK078371	Ugt8a	Mus musc	58.7097	13.0105	22.6366
chr6	15893	U26461	Ica1	Mus musc	2098.682	809.2875	768.9735
chr18	83885	XM_11175	Slc25a2	PREDICT	46.7602	16.9934	18.037
chr18	93888	BC017149	Pcdhb17	Mus musc	2966.55	851.0875	1144.34
chr5	52850	AK010756	Sgsm1	Mus musc	94.3995	34.053	30.5703
chr11	69944	BC058081	2810021J	Mus musc	283.6715	73.7535	109.5015
chr6	N/A	AK038749	N/A	Mus musc	63.1783	24.3935	12.9786
chr7	26918	BC108999	Ern2	Mus musc	99.9456	15.8482	23.5816

chr17	20681	AK046473	Sox8	Mus musc	563.496	112.8715	217.6695
chr11	50997	AK141422	Mpp2	Mus musc	2827.359	1017.059	1092.458
chr5	675812	XM_00147	Zfp605	PREDICT	759.5414	263.0855	293.5415
chr12	66109	BC018317	Tspan13	Mus musc	9343.279	3323.176	3613.022
chr2	17876	AK048404	Myef2	Mus musc	7633.262	2302.925	2952.444
chr6	231986	BC048577	Jazf1	Mus musc	4287.276	1650.708	1659.144
chr5	16885	AK172083	Limk1	Mus musc	1650.033	489.1275	638.6235
chr6	12035	BC053706	Bcat1	Mus musc	4172.658	1522.61	1615.163
chr2	214968	AK031307	Sema6d	Mus musc	4300.305	1641.922	1665.019
chr4	242481	BC113156	Palm2	Mus musc	3051.498	987.7215	1182.112
chr14	67518	AK006644	1700039M	Mus musc	33.5244	12.1607	9.542
chrX	19893	AK038652	Rpgr	Mus musc	106.9255	41.4415	41.3874
chr2	14950	AK049101	H13	Mus musc	2701.654	894.9375	1047.372
chr12	68571	AK035515	1110002LC	Mus musc	3737.486	1108.34	1449.034
chr5	80334	AF305071	Kcnip4	Mus musc	62.8443	10.0786	16.7398
chr16	93734	BC094450	Mpv17l	Mus musc	86.4235	29.5559	29.3166
chr7	320208	AK043858	Tmem91	Mus musc	45.6305	10.7598	9.3562
chr17	20997	BC120807	T	Mus musc	166.1815	52.2579	64.4881
chr11	170835	BC131634	Inpp5j	Mus musc	1009.946	318.6235	391.9755
chr19	56473	AK031337	Fads2	Mus musc	361.7255	112.5095	140.4215
chr9	67667	AK020197	Alkbh8	Mus musc	665.2995	256.7735	258.2783
chr11	1E+08	XM_00147	Gm12059	PREDICT	121.9875	42.8253	37.5414
chr2	17183	AK160786	Matn4	Mus musc	94.8395	25.3659	36.8564
chr13	627648	XM_35475	Klhl3	PREDICT	1716.683	667.2635	660.2528
chr8	17207	S76838	Mcf2l	Dbp=Dbl g	12349.16	4801.982	3543.369
chr14	20618	BC028508	Sncg	Mus musc	2019.513	204.5053	193.1575
chr17	66237	BC025190	Atp6v1g2	Mus musc	1464.61	569.7025	544.8135
chr6	1E+08	XM_00147	Gm3282	PREDICT	57.2086	14.9646	22.2563
chr12	73010	BC089509	Gpr22	Mus musc	410.8955	35.6219	58.8016
chr2	227933	BC062650	Ccdc148	Mus musc	694.5835	87.1321	86.7819
chr9	70455	AK141402	2610203C	Mus musc	3971.032	1088.704	1545.436
chr1	226970	AK031310	Arhgef4	Mus musc	944.6315	110.9655	108.1722
chr5	70918	BC115878	Nsun7	Mus musc	25.3759	9.8805	8.6718
chr12	1E+08	XM_00148	Gm16476	PREDICT	1428.616	556.3625	406.0055
chr4	20301	BC099574	Ccl27a	Mus musc	2240.048	812.6761	599.4795
chrX	20523	AF155812	Slc25a14	Mus musc	3435.73	1136.15	1338.573
chr13	1E+08	XM_00147	Gm3609	PREDICT	60.0857	23.412	12.5889
chr6	232566	AK050169	Amn1	Mus musc	2570.138	1001.696	921.984
chr1	18845	BC051045	Plxna2	Mus musc	5961.896	2242.355	2323.802
chr1	241062	AK138171	Pgap1	Mus musc	5011.282	1443.354	1400.634
chr5	209707	BC066151	Lcorl	Mus musc	320.5255	116.4495	125.032
chr3	229214	AK043649	Qrfpr	Mus musc	21.506	8.3924	8.0307
chr1	71166	AK016893	4933424G	Mus musc	58.062	17.5282	22.6665
chr17	75564	BC019423	Rsph9	Mus musc	793.9133	123.7535	268.4395
chr9	73144	AK014147	3110039I0	Mus musc	369.1255	94.4075	144.1156
chr12	68571	AK031200	1110002LC	Mus musc	8171.789	2820.559	3195.396
chr11	50997	BC053026	Mpp2	Mus musc	3455.124	1215.473	1351.07
chr12	104871	DQ196101	Spata7	alt 'Al6614	1380.411	540.1373	449.8995
chr2	74410	BC115858	Till11	Mus musc	777.4595	272.6849	304.226
chr2	227733	BC119037	Pip5kl1	Mus musc	518.4515	180.2835	202.8815
chr3	109676	AK083111	Ank2	Mus musc	69.6977	27.2769	22.687
chr6	1E+08	XM_00147	Gm2458	PREDICT	45.5524	13.3078	17.8303
chr15	19094	BC064737	Mapk11	Mus musc	3978.246	1151.768	1396.818



chr2	227659	AK172411	Slc2a6	Mus musc	317.7385	65.5717	71.1076
chr7	243866	XM_48587	Gm4969	PREDICT	571.2865	135.1153	223.8215
chr4	66433	AK145105	Chchd7	Mus musc	64.65	19.3697	24.7227
chr17	319991	NM_17705	Kif6	Mus musc	250.2675	94.9515	98.0715
chr3	668804	XM_00100	Gm9369	PREDICT	50.2719	16.4069	15.331
chr7	20480	AK032421	Clpb	Mus musc	638.6348	230.4075	250.3255
chr14	N/A	AK046150	N/A	Mus musc	105.6747	36.14	39.9029
chr13	30938	AK165413	Fgd3	Mus musc	122.3954	31.5878	47.9849
chr11	268445	BC056928	Ankrd13b	Mus musc	993.1915	373.3754	389.663
chr19	N/A	AK090268	N/A	Mus musc	31.418	12.3273	10.0863
chr17	18585	BC061163	Pde9a	Mus musc	2321.854	911.2875	871.3401
chr17	19824	BC051632	Trim10	Mus musc	1094.446	429.6315	179.1242
chr18	N/A	BC066179	N/A	Mus musc	104.503	14.4528	41.0351
chr17	74011	AK219158	Slc25a27	Mus musc	3116.576	855.7895	973.7255
chr14	666906	XM_98693	Gm8356	PREDICT	551.8395	216.9429	90.6735
chr8	N/A	BC048761	N/A	Mus musc	366.1595	143.9495	137.7995
chr11	18082	BC010837	Nipsnap1	Mus musc	11986.73	4715.2	3985.142
chr3	320478	AK045614	Sox2ot	Mus musc	1398.496	327.9055	550.4274
chr4	108802	BC044740	Calr4	Mus musc	556.9489	219.3142	75.5895
chr19	76267	AK080706	Fads1	Mus musc	648.5435	255.4334	237.6035
chr16	320214	AF503943	4932425I2	Mus musc	65.2594	25.7199	24.9903
chr4	67621	AK156708	Bend5	Mus musc	273.6073	92.8361	107.8835
chr19	N/A	AK044380	N/A	Mus musc	33.5473	12.6486	13.2314
chr14	1E+08	XM_00147	Gm3512	PREDICT	390.0395	153.8678	82.9286
chr7	66333	AK040045	Aqp11	Mus musc	2693.36	1062.684	561.0075
chr9	320429	XM_00148	Trank1	PREDICT	1501.714	299.9475	592.6615
chr9	57014	BC046990	Htr3b	Mus musc	144.7555	52.142	49.2441
chr5	14395	AK046953	Gabra2	Mus musc	491.5135	192.2126	194.0915
chr7	75538	AK006229	Fam71e1	Mus musc	261.7775	95.2855	103.4008
chr6	71837	AK005628	1700003E	Mus musc	217.9548	72.6736	86.0998
chr18	211961	XM_00147	Asxl3	PREDICT	26.0026	10.2751	8.9448
chr6	20617	AK014472	Snca	Mus musc	17.7435	6.4063	6.5889
chr2	14299	BC059825	Freq	Mus musc	15738.76	4454.06	6224.519
chr7	18142	BC132113	Npas1	Mus musc	205.6075	69.4762	79.5875
chr14	105670	AK147784	Rcbtb2	Mus musc	350.0075	114.5135	138.5095
chr17	1E+08	AK043548	Gm1604A	Mus musc	160.3392	63.4682	38.2501
chr11	74230	BC049758	1700016K	Mus musc	104.3893	21.8048	41.326
chr4	320571	AK076708	4930417M	Mus musc	59.5833	15.0535	23.5934
chr14	1E+08	XM_00147	Gm3476	PREDICT	617.6695	244.7395	127.0109
chr19	26456	AK039355	Sema4g	Mus musc	875.7916	347.0252	291.7855
chr10	140741	AK139367	Gpr6	Mus musc	23.6069	9.3562	9.0129
chr10	216148	XM_00147	Shc2	PREDICT	3400.384	879.3225	929.7015
chr11	70451	BC115881	Dhrs13	Mus musc	2316.499	919.1415	875.1055
chr6	75659	BC083332	Wdr54	Mus musc	579.5658	175.1855	230.0927
chr8	234138	AK139425	BC019943	Mus musc	761.5815	241.3975	302.4715
chr15	22701	BC053927	Zfp41	Mus musc	6938.754	2546.553	2755.911
chr7	320845	AK140288	A230056P	Mus musc	1141.983	379.143	453.5739
chr19	21908	BC018246	Tlx1	Mus musc	48.6732	19.3325	16.8279
chr5	666892	AK087483	Gm8350	Mus musc	155.9586	53.3023	61.961
chr1	211484	AK030254	Tsga10	Mus musc	109.7175	25.4079	43.6041
chr6	65255	BC046819	Asb4	Mus musc	880.4193	347.0197	349.9535
chr14	1E+08	XM_00147	Gm3012	PREDICT	632.6875	251.5295	92.0495
chr9	434438	BC058624	Ccdc36	Mus musc	628.7315	165.7188	250.1015

chr12	208439	BC145748	Kihl29	Mus musc	5765.783	1558.484	2294.218
chr5	70920	BC049718	4921511H	Mus musc	77.5712	30.8748	26.4677
chr5	N/A	AB294520	N/A	Mus musc	280.8435	109.3015	98.5395
chr11	790912	NR_00328	Gm11202	Mus musc	160.7555	29.9549	17.5345
chr16	224019	XM_35877	Tmem191c	PREDICT	95.6075	22.9056	38.1027
chr17	21646	AK008572	Tcte2	Mus musc	16.3697	6.422	6.5281
chr12	238252	BC062104	Gpr135	Mus musc	114.5135	31.7344	45.6691
chr10	237362	AY255578	Npffr1	Mus musc	79.1815	31.5878	21.0121
chr8	102075	BC024792	Plekhg4	Mus musc	256.4084	77.4285	78.0455
chr4	12733	AF124848	Cicnka	Mus musc	42.5281	16.9751	15.8556
chr5	54188	BC057067	Cpsf4	Mus musc	2061.096	653.5395	822.7415
chr13	214579	AK018104	Aldh5a1	Mus musc	1735.4	692.7575	567.6265
chr1	68724	BC018479	Arl8a	Mus musc	18860.7	5911.851	7529.224
chr10	73390	BC037487	Msl3l2	Mus musc	509.3141	145.3953	203.3495
chr2	17153	AK019046	Mal	Mus musc	2903.246	1019.48	1159.504
chr10	11925	BC104326	Neurog3	Mus musc	26.5541	8.7121	7.7278
chr17	224813	AK134769	Gm88	Mus musc	189.3144	53.0602	75.6423
chr11	207607	AK054172	Ccdc40	Mus musc	141.8395	56.6965	22.7122
chr3	N/A	AK038087	N/A	Mus musc	19.2266	7.687	5.9124
chr16	17450	BC030893	Morc1	Mus musc	37.6515	12.6662	15.0584
chr6	22044	BC053493	Trh	Mus musc	61.7806	24.7108	9.2695
chr13	15904	BC156378	Id4	Synthetic	4355.2	1246.546	1559.038
chr4	140577	BC065177	Ankrd6	Mus musc	2094.418	728.0475	838.1816
chr18	623279	AK140422	Dok6	Mus musc	57.2246	17.9346	11.8525
chr19	56473	BC057189	Fads2	Mus musc	7801.12	3125.34	2521.35
chr9	N/A	XM_00147	N/A	PREDICT	227.2053	59.5673	76.8819
chr6	320560	BC132199	Dennd5b	Mus musc	3595.183	1441.522	1128.612
chr10	327749	XM_00147	Gm5079	PREDICT	66.4874	23.7554	16.2048
chr17	N/A	AK043439	N/A	Mus musc	184.9439	74.1895	32.6395
chr2	209630	AK043369	Frmd4a	Mus musc	3410.762	1008.742	1369.68
chrX	668971	XM_00100	Gm14451	PREDICT	55.1881	22.1627	13.9297
chr6	69993	BC051139	Chn2	Mus musc	1031.102	288.4035	414.1013
chr6	15399	BC117105	Hoxa2	Mus musc	6339.036	2547.926	1829.01
chr10	78808	AK136998	Stxbp5	Mus musc	309.5615	98.1055	91.6795
chr2	227659	AK167904	Slc2a6	Mus musc	71.483	28.7546	20.2879
chr2	241638	AK148251	RP23-100C	Mus musc	655.1615	131.7895	216.9535
chr17	211482	BC132103	Efhb	Mus musc	102.8075	34.0296	41.3874
chr8	14934	BC148192	Gypa	Mus musc	2482.135	999.6635	354.2855
chr14	52009	BC055351	Hn1l	Mus musc	425.8107	171.5455	111.9757
chr8	56527	AK122411	Mast1	Mus musc	1719.906	372.8915	466.9235
chr14	105651	XM_99315	Ppp1r3e	PREDICT	3069.408	1236.902	1027.852
chr10	53331	BC132123	Stx7	Mus musc	16268.26	6556.634	6231.442
chr6	15401	BC107172	Hoxa4	Mus musc	13087.71	5274.82	3206.938
chr16	72168	BC120685	Aifm3	Mus musc	70.0442	20.9241	20.6982
chr2	27223	AK045851	Trp53bp1	Mus musc	9725.913	3920.612	3889.487
chr19	629389	XM_89427	Gm6970	PREDICT	217.3578	77.5175	87.7535
chr15	75729	BC118956	4933432B	Mus musc	401.284	137.1969	162.0275
chr5	11496	AB179854	Adam22	Mus musc	748.5435	164.9235	302.2505
chr8	497652	AK052768	Acd	Mus musc	356.4619	90.2735	143.9535
chr14	218772	BC076597	Rarb	Mus musc	1346.59	543.8755	422.5095
chr8	12352	BC030174	Car5a	Mus musc	60.0624	15.0389	24.2654
chrX	19893	AK138977	Rpgr	Mus musc	3644.619	1406.4	1472.91
chr8	1E+08	XM_00147	Gm3985	PREDICT	18.8603	5.6098	5.7787



chr6	320038	AK032180	Dlx6os1	Mus musc	51.1054	16.4078	13.7898
chr19	171180	BC116846	Syt12	Mus musc	503.6755	162.697	185.3915
chr5	319974	BC021509	Auts2	Mus musc	8037.588	2844.566	3249.871
chrX	16784	AK078193	Lamp2	Mus musc	1065.525	292.1955	431.1835
chr7	108797	AK088538	Mex3b	Mus musc	2653.062	492.2195	1073.824
chr3	71519	AK018458	Cyp2u1	Mus musc	67.2272	27.2107	24.7475
chr9	56542	AK052178	lck	Mus musc	3935.17	1350.242	1592.823
chr5	52850	AK044716	Sgsm1	Mus musc	31.207	12.6335	10.4724
chr10	11735	AK081055	Ank3	Mus musc	181.7495	64.4441	73.588
chrX	19893	AK081631	Rpgr	Mus musc	91.9475	37.2392	33.3848
chr11	170740	AK046006	Zfp287	Mus musc	237.1279	68.8111	96.0435
chr8	1E+08	XM_00147	Gm10094	PREDICT	761.8632	164.2035	143.0695
chr7	14453	BC013456	Gas2	Mus musc	1159.75	469.7955	433.0735
chr11	12323	AK048845	Camk2b	Mus musc	150.2595	42.4568	49.5437
chr7	101565	BC052772	6330503K2	Mus musc	2601.082	695.7255	1053.98
chr12	66808	XM_00100	9030624G	PREDICT	1841.001	746.0975	556.2115
chr1	1E+08	XM_00147	LOC10004	PREDICT	48.7999	16.193	19.785
chr4	544678	BC056495	2010015L0	Mus musc	258.8015	97.5775	104.9297
chr4	13844	BC146315	Ephb2	Synthetic	8745.178	2912.62	3546.11
chr5	53324	BC026054	Nptx2	Mus musc	1722.224	319.8815	484.8995
chr14	1E+08	XM_00147	Gm3182	PREDICT	3143.682	1274.982	676.3135
chr3	229706	AK083807	Slc6a17	Mus musc	4139.016	1449.85	1678.774
chr17	624086	AK138253	A230045G	Mus musc	451.0636	182.9955	178.473
chr18	17191	AK082825	Mbd2	Mus musc	1516.95	384.7895	491.0899
chr17	22404	AK133564	Wiz	Mus musc	2385.888	952.8295	968.7815
chr7	N/A	AK199694	N/A	Mus musc	118.741	48.2279	30.6175
chr1	329165	BC079646	Abi2	Mus musc	3232.227	895.0855	1313.196
chr12	668662	AK132630	Gm9292	Mus musc	2112.666	858.7735	757.9028
chr1	620839	XM_89605	Gm6185	PREDICT	74.8095	19.9166	30.4257
chr3	109676	AK084070	Ank2	Mus musc	1336.255	475.8515	543.4838
chr8	234373	BC047383	Sfrs14	Mus musc	1313.406	462.4195	534.4755
chr10	404580	AK136722	AL117821	Mus musc	32.3469	8.4495	8.9561
chr7	212124	XM_13395	E030019B	PREDICT	54.389	19.8816	14.5491
chr17	433082	AK086736	LOC43308	Mus musc	541.893	190.5175	220.7455
chr2	17242	BC012244	Mdk	Mus musc	16932.45	6456.7	6898.948
chr5	70832	AK046351	4921504A2	Mus musc	228.3515	55.6137	93.0815
chr1	53972	NM_00111	Ngef	Mus musc	1520.204	582.0855	619.8646
chr6	15400	BC096612	Hoxa3	Mus musc	6695.082	2730.104	1840.193
chr9	72821	BC092225	Scn2b	Mus musc	300.6855	69.7337	95.1288
chr11	216856	BC156101	Nlgn2	Synthetic	9220.202	2740.865	3762.328
chr4	242484	BC030929	D630039A	Mus musc	157.5635	64.3181	63.9621
chr17	74011	AK084741	Slc25a27	Mus musc	674.7195	138.6355	235.7735
chr14	1E+08	XM_00147	Gm3518	PREDICT	720.9055	294.3454	133.3871
chr8	84036	BC090622	Kcnn1	Mus musc	1549.374	405.0355	378.9695
chr15	19009	BC059830	Pou6f1	Mus musc	4658.125	1723.082	1640.42
chr14	414118	AK047978	D930049A	Mus musc	328.9174	123.9415	134.3535
chr10	11923	BC054391	Neurod4	Mus musc	28.6114	6.653	6.2365
chr4	16559	AK083171	Kif17	Mus musc	260.1903	106.3418	87.3535
chr7	386655	BC094513	Eid2	Mus musc	3130.438	1279.57	1261.88
chr19	1E+08	XM_00147	Gm9749	PREDICT	47.9609	19.6099	10.9044
chr9	14608	BC141536	Gpr83	Synthetic	378.3655	154.8555	122.4996
chr9	330921	AK144787	Pate2	Mus musc	116.1948	47.5896	36.6887
chr18	93875	BC053098	Pcdhb4	Mus musc	253.8895	57.9201	103.9895

chr8	623223	XM_89759	Gm6410	PREDICT	93.3212	38.2305	32.7491
chr9	625222	AK077358	Gm15520	Mus musc	40.0722	11.2471	9.6917
chr9	76499	AK034560	Clasp2	Mus musc	312.1955	83.9255	119.9411
chr18	11789	AK045053	Apc	Mus musc	9575.92	2957.075	3924.358
chr17	73229	AK161479	3110052M	Mus musc	115.2515	27.9432	47.2476
chr16	N/A	DQ072380	N/A	Mus musc	66.7133	26.4194	27.3627
chr4	67621	BC051512	Bend5	Mus musc	3724.896	968.7815	1528.322
chr17	70891	AY820307	Spdya	alt '49215'	100.7955	20.413	41.4315
chr8	622675	AK052736	Zfp827	Mus musc	2410.48	944.8102	991.2801
chr2	11981	AK082271	Atp9a	Mus musc	12538.47	4965.686	5163.595
chr14	1E+08	XM_00147	Gm16434	PREDICT	595.0349	245.3195	115.6515
chr11	217143	AK038894	Gpr179	Mus musc	117.5715	47.3199	48.5348
chr13	14706	BC016506	Gng4	Mus musc	3713.892	1452.324	1533.888
chr10	74053	AY294283	Grip1	Mus musc	108.3275	44.7516	41.4361
chr5	319387	AK046304	Lphn3	Mus musc	346.4135	76.5095	143.1315
chr10	15468	BC122563	Prmt2	Mus musc	12667.39	4177.533	5238.004
chr9	55991	BC049074	Panx1	Mus musc	6101.703	2062.098	2523.288
chr2	241638	BC058280	RP23-1000	Mus musc	769.8577	157.4955	220.0246
chr1	16526	AY736359	Kcnk2	Mus musc	2729.49	811.7755	1129.692
chr7	18213	AK164887	Ntrk3	Mus musc	1289.352	533.6975	245.7535
chr18	110796	BC040215	Tshz1	Mus musc	15275.29	6324.25	5913.552
chr17	545207	AK053296	E130008D	Mus musc	157.2675	63.6502	65.142
chr6	70727	BC145752	Rasgef1a	Mus musc	294.3613	76.8835	121.9295
chr12	217378	AY035893	Dnajc27	Mus musc	2488.932	869.4455	1031.05
chr12	77480	AK021172	Kidins220	Mus musc	9036.531	3718.846	3744.398
chr17	106565	BC118057	Dlk2	Mus musc	3197.218	1152.356	1324.934
chr17	66931	BC050753	170001011	Mus musc	423.625	166.9955	175.5615
chr17	224613	AK217025	Flywch1	Mus musc	1100.839	452.7582	456.3015
chr2	208967	BC090667	Thnsl1	Mus musc	833.2875	345.6875	312.9887
chr9	244891	AK173175	Scaper	Mus musc	2299.896	937.8275	954.1096
chr19	240518	BC028931	Peli3	Mus musc	531.2655	168.5195	220.5495
chr2	27223	BC079906	Trp53bp1	Mus musc	8079.049	2969.258	3354.146
chr11	217340	AK011693	Rnf157	Mus musc	410.7995	101.6353	170.5746
chr14	544988	BC016222	544988	Mus musc	2045.239	849.3376	395.7535
chr2	381356	AK169470	5930434B0	Mus musc	995.6883	413.5138	329.7915
chr8	71069	AK030015	Stox2	Mus musc	6292.997	2230.036	2614.358
chrX	19716	BC089464	Bex1	Mus musc	1152.036	342.6363	478.6095
chr19	226278	BC125649	Prhr	Mus musc	75.2315	27.3302	16.7049
chr11	30944	BC079908	Zfp354c	Mus musc	5139.661	1355.614	2136.246
chr2	18146	BC003320	Npdc1	Mus musc	3957.302	1140.55	1136.253
chr5	381741	AK167729	Lrrc43	Mus musc	33.4757	13.9277	8.2938
chr1	227325	AK030642	Dner	Mus musc	48.9614	13.2465	9.5304
chr1	75734	BC059229	Mff	Mus musc	5266.13	2191.383	2136.911
chr17	75210	BC016636	Prr3	Mus musc	10856.92	4517.96	4287.334
chr10	216166	BC086684	Plk5	Mus musc	465.941	194.0235	178.5735
chr2	56508	AB037668	Rapgef4	Mus musc	2919.014	924.5075	1216.332
chr7	232875	BC064311	Zscan18	Mus musc	1239.134	340.7735	516.4395
chr1	545389	AK038878	Cep170	Mus musc	5525.486	1595.168	2303.298
chr10	14421	BC019969	B4galnt1	Mus musc	7898.028	2045.663	3238.114
chr6	70291	NM_00110	2510049J1	Mus musc	68.2928	15.1701	28.4997
chr14	1E+08	XM_00147	Gm3029	PREDICT	557.6995	232.8135	73.8715
chr12	217480	AK161933	Dgkb	Mus musc	1756.34	719.5555	602.5467
chr19	19395	AK160563	Rasgrp2	Mus musc	2663.558	1112.106	1107.348



chr17	56298	AK038697	Ati2	Mus musc	725.4835	156.6707	197.6165
chr14	12934	BC062955	Dpysl2	Mus musc	19470.73	5541.839	7285.96
chr17	240068	BC148480	Zfp563	Synthetic	3014.594	1200.424	1260.123
chr7	67607	AK020228	Zfp788	Mus musc	459.5495	135.8375	192.203
chr11	74288	BC100505	Spem1	Mus musc	121.0495	36.2589	50.6486
chr12	320436	AK047676	C030009J	Mus musc	259.2235	60.4027	84.0315
chr16	69707	BC049990	lqcg	Mus musc	488.5335	204.4415	188.5415
chr18	74453	BC125572	Ccdc11	Mus musc	42.2269	13.9482	17.6855
chr8	382056	BC080308	Crtc1	Mus musc	4062.207	1356.374	1701.846
chr6	12764	BC031500	Cmas	Mus musc	5932.606	2292.584	2485.718
chr4	26372	AK220319	Clcn6	Mus musc	9983.981	4093.997	4183.33
chr10	15364	BC085085	Hmga2	Mus musc	5131.888	1839.231	2150.552
chr2	241732	BC058340	Tspyl3	Mus musc	4460.3	1417.589	1869.12
chr6	18575	AK133243	Pde1c	Mus musc	148.3799	23.6398	62.1905
chr9	69106	AK007508	Stoml1	Mus musc	5017.315	2103.52	1857.37
chr2	72603	AK012325	2700033N	Mus musc	550.4839	190.7566	230.81
chr11	14580	M25937	Gfap	Mouse glia	21.1052	6.8329	8.8534
chr11	68191	AK019365	5330430P	Mus musc	775.4095	306.2215	325.4175
chr7	78070	BC066155	Cpt1c	Mus musc	5192.168	1749.034	2179.148
chr9	214058	AK160406	Megf11	Mus musc	2201.6	629.0035	924.2015
chr14	1E+08	XM_00147	Gm3727	PREDICT	123.4335	51.8434	40.0961
chr2	381375	BC152932	Dfnb59	Synthetic	26.5821	11.165	11.0809
chr6	77522	XM_88543	Tmem213	PREDICT	77.7175	32.6462	20.1204
chr16	433022	XM_00148	Plcx2	PREDICT	585.7955	166.4315	246.1534
chr2	228911	BC079550	Tshz2	Mus musc	5848.221	2458.028	2283.192
chr2	17754	AK160546	Mtap1a	Mus musc	2792.55	757.0115	1173.872
chr2	14049	AY212511	Eya2	Mus musc	1624.008	657.8975	682.6835
chr18	71367	AK017407	Chst9	Mus musc	21.4039	9.0063	7.1542
chr14	1E+08	XM_00147	Gm3182	PREDICT	1074.837	452.3817	252.9135
chr7	80749	AK144493	Lfn1	Mus musc	369.3115	145.9575	155.5335
chr2	20511	AK018918	Slc1a2	Mus musc	43.5085	15.8969	9.3542
chr6	243547	XM_97911	Grip2	PREDICT	1607.289	506.7475	677.3517
chr12	74284	AK007020	1700086L	Mus musc	53.6079	15.987	22.6023
chr18	269037	BC058104	Gm672	Mus musc	2035.939	765.1203	859.2475
chr9	244721	AK033687	Zfp846	Mus musc	2531.973	983.7815	1068.891
chr7	233058	BC050249	Zfp420	Mus musc	522.6395	145.3644	220.7406
chr19	71768	BC043473	Vwce	Mus musc	124.0015	33.6933	52.3739
chr7	76628	AK038598	1700112J	Mus musc	58.0012	24.5001	13.6553
chr12	1E+08	XM_00147	Gm4173	PREDICT	36.7293	15.5194	13.9278
chr5	269713	BC039162	Clip2	Mus musc	4128.208	1490.283	1746.016
chr6	14760	AK140770	Gpr19	Mus musc	1587.422	671.4395	654.4395
chr11	11302	AK147239	Aatk	Mus musc	4991.002	2111.23	2012.16
chr13	68271	AK015755	4930441O	Mus musc	804.0895	340.1495	339.9342
chr14	N/A	BC096416	N/A	Mus musc	1078.188	456.102	271.0715
chr7	18476	AK039375	Pafah1b3	Mus musc	456.4735	156.4593	193.1407
chr12	70127	AK012970	Dpf3	Mus musc	1642.24	695.2295	476.5254
chr7	1E+08	XM_00147	Gm4056	PREDICT	479.8289	83.5357	109.7935
chrX	1E+08	XM_00147	Gm2411	PREDICT	774.6375	265.5195	328.1835
chr11	170740	AK133603	Zfp287	Mus musc	640.2935	173.7729	271.3255
chr9	72135	BC116630	Pygo1	Mus musc	6749.647	2185.888	2861.314
chr17	106794	BC062952	Dhx57	Mus musc	9109.112	3587.974	3862.066
chr14	544990	XM_00147	Gm5795	PREDICT	511.0295	216.7088	86.2194
chr4	17389	AK046170	Mmp16	Mus musc	46.4213	10.7659	19.6907

chrX	53627	BC032284	Porcn	Mus musc	1849.252	759.6175	784.6933
chr11	26420	AK043169	Mapk9	Mus musc	291.4819	109.9655	123.7246
chr16	27886	BC013711	Dgcr14	Mus musc	2128.935	800.5979	904.0395
chr19	71768	AK153937	Vwce	Mus musc	155.1328	24.581	65.8879
chr9	654798	AK051019	D030055H	Mus musc	206.0475	87.5395	73.7423
chrX	74405	BC120659	Efhc2	Mus musc	143.6035	52.114	61.0405
chr10	320150	BC117788	Zdhhc17	Mus musc	2739.722	1164.917	1085.522
chr19	19726	AK030008	Rfx3	Mus musc	807.9648	317.2239	343.5975
chr8	70546	BC117761	Zdhhc2	Mus musc	3493.268	1270.526	1486.252
chr16	224170	NM_00111	Dzip3	Mus musc	2798.671	784.8568	1190.958
chr6	78937	BC117878	Avl9	Mus musc	2956.894	1258.302	1234.637
chr4	53902	BC059001	Rcan3	Mus musc	5935.784	2202.594	2526.19
chrX	69388	AK006087	1700018G	Mus musc	67.5718	23.4419	20.9801
chr11	216856	AK136883	Nlgn2	Mus musc	11438.14	3647.156	4871.865
chrX	18744	BC025975	Pja1	Mus musc	1561.901	560.9515	665.3315
chr2	56846	BC126874	Necab3	Mus musc	245.8175	75.2397	104.724
chrX	12070	AK003294	Ngfrap1	Mus musc	21146.65	7482.1	9013.196
chr12	668669	XM_00100	Gm9295	PREDICTI	1512.674	645.1415	476.8255
chr6	23925	BC099961	Kel	Mus musc	295.9935	126.2535	58.463
chr4	1E+08	AK030206	Gm13112	Mus musc	43.1706	10.5774	18.4159
chr15	320873	AK048368	Cdh10	Mus musc	25.4509	10.8615	9.2563
chr4	414872	BC117977	Zyg11b	Mus musc	1935.227	826.2115	778.9495
chr16	268902	AK129396	Robo2	Mus musc	1142.778	171.0854	488.2595
chr8	234214	AK140498	Sorbs2	Mus musc	3791.75	1075.612	1621.036
chr6	1E+08	NM_00109	Gm4696	Mus musc	26.7384	9.6026	11.4318
chr5	14395	BC115727	Gabra2	Mus musc	648.0435	277.4024	274.7935
chr11	11841	AK031259	Arf2	Mus musc	9091.499	3558.466	3892.778
chr7	101694	AK047441	Al854517	Mus musc	268.3646	114.9267	88.0195
chr2	77767	BC090670	Ernm	Mus musc	34.6145	8.8335	14.8284
chr17	20359	AK166077	Sema6b	Mus musc	1268.486	543.4495	532.7215
chr4	18124	BC148436	Nr4a3	Synthetic	143.3291	52.9932	61.4182
chr10	320504	AK040320	5930403N	Mus musc	3833.972	1643.009	1554.638
chr16	22129	AK164492	Ttc3	Mus musc	20574.42	8774.984	8819.856
chr5	16511	AF034762	Kcnh2	Mus musc	1346.118	548.0897	577.1895
chr12	268567	AK053623	Tmem229k	Mus musc	3487.418	1148.638	1182.392
chr13	271144	BC112417	Ankdd1b	Mus musc	1790.576	603.8815	767.9395
chr1	16008	BC012724	Igfbp2	Mus musc	1387.507	429.71	595.0775
chr19	225849	BC058977	Ppp2r5b	Mus musc	12981.2	5274.059	5281.392
chr9	70487	XM_48928	5730403I0	PREDICTI	26.4862	8.9062	11.3634
chr2	66044	BC026537	Dtd1	Mus musc	4149.504	1781.507	1564.741
chr14	76338	BC033312	Rab2b	Mus musc	3326.846	1313.312	1428.352
chr6	19242	BC061695	Ptn	Mus musc	32536.87	13451.38	13983.09
chr7	212124	AK086998	E030019B	Mus musc	50.8087	20.5055	21.8413
chr7	75430	AK018169	3200002M	Mus musc	1638.476	692.1622	704.4675
chr2	1E+08	XM_00147	Gm4086	PREDICTI	125.5415	53.9814	34.3812
chr13	75571	BC048558	Spata9	Mus musc	36.1479	12.6221	15.5434
chr5	84652	AK161265	Fam126a	Mus musc	116.8835	50.2599	29.9324
chr2	668940	NM_00108	Myh7b	Mus musc	234.2715	100.8275	70.618
chr2	22325	BC053060	Vav2	Mus musc	3756.314	1331.666	1617.276
chr7	319604	AK084931	Fam168a	Mus musc	1899.36	589.9835	818.0775
chr3	22329	BC011159	Vcam1	Mus musc	7699.69	2766.58	3316.676
chr18	240334	BC060677	Pcyox1l	Mus musc	1260.376	416.2715	543.0575
chr1	98366	AK132868	Smap1	Mus musc	476.4455	203.3575	205.3415



chr9	66257	BC024050	Nicn1	Mus musc	5469.934	2294.492	2357.572
chr17	224997	AK031410	Dlgap1	Mus musc	30.8787	10.4742	12.6394
chr9	67685	BC026462	Dyx1c1	Mus musc	315.0274	114.5975	135.8835
chr11	108686	AK129310	Ccdc88a	Mus musc	1220.164	279.1784	526.4313
chr11	56631	BC055112	Trim17	Mus musc	187.3022	62.2704	67.1998
chr13	20365	AK012379	Serf1	Mus musc	120.7535	52.142	45.939
chr11	217219	BC064455	Fam171a2	Mus musc	5866.734	1866.004	2533.6
chr4	381538	AK134749	Gm1027	Mus musc	177.8115	51.7408	76.8155
chr4	319636	AK052914	Fsd1l	Mus musc	1049.68	279.2871	453.7209
chr6	232023	BC024822	Vopp1	Mus musc	18103.31	6182.634	7825.404
chr1	74426	XM_12982	4933402D	PREDICTI	90.6815	31.437	39.2135
chr18	78923	AK044099	Chsy3	Mus musc	204.2106	65.9039	88.3215
chr4	13844	BC043088	Ephb2	Mus musc	3829.288	962.4074	1656.572
chr5	23948	BC051917	Mmp17	Mus musc	3830.334	1083.052	1657.398
chr7	232821	AK145417	Ccdc106	Mus musc	400.7576	128.8135	173.4435
chr11	19739	AK085443	Rgs9	Mus musc	413.8655	172.9895	179.1335
chr3	320478	AK031919	Sox2ot	Mus musc	40.4076	12.606	17.4899
chr17	106794	AK035344	Dhx57	Mus musc	9488.498	3605.34	4108.646
chr13	56320	BC006714	Dbn1	Mus musc	9132.33	2787.046	3955.072
chr6	78937	BC051177	Avi9	Mus musc	2747.23	1190.024	1018.674
chr2	74410	AM690755	Tll11	Mus musc	27.6437	8.1493	11.9758
chr17	54419	BC005718	Cldn6	Mus musc	134.7775	48.4021	58.3883
chr4	242297	AK146011	Fam110b	Mus musc	4112.128	1308.318	1784.004
chr15	52710	AK032015	Gpr172b	Mus musc	779.2835	338.1032	299.9875
chr8	N/A	AK132885	N/A	Mus musc	841.1063	364.9315	346.0833
chr4	69808	AK007899	1810058N	Mus musc	31.6371	13.7342	8.752
chr8	211135	BC156412	D130040H	Synthetic	430.3615	101.7275	186.8465
chr8	20312	BC006650	Cx3cl1	Mus musc	4534.066	1968.79	1837.534
chr2	78245	XM_48496	Acbd7	PREDICTI	38.5169	14.7092	16.7263
chr8	12564	AK047589	Cdh8	Mus musc	23.3218	5.1254	10.1304
chr7	67607	AK163311	Zfp788	Mus musc	2016.178	787.6321	808.9535
chr6	14924	AB194412	Magi1	Mus musc	3553.146	1544.506	1537.747
chr12	64242	BC024263	Ngb	Mus musc	144.6915	62.9063	30.1791
chr17	74149	BC098460	1300003B	Mus musc	1427.622	569.9835	621.1935
chr14	N/A	AK012594	N/A	Mus musc	1946.742	289.3878	847.2503
chr12	74284	AK005679	1700086L	Mus musc	25.7551	7.6014	11.2092
chr4	212190	AK077656	Ubxn10	Mus musc	719.4482	156.6075	139.4061
chr2	213788	BC120615	Chrm5	Mus musc	231.5554	100.7996	72.8076
chr8	76813	BC043070	Armc6	Mus musc	3082.976	1342.104	1299.168
chr4	50500	BC099868	Ttpa	Mus musc	478.3858	155.7215	208.2695
chr9	434378	XM_00147	7030419G	PREDICTI	75.2115	28.5737	32.2101
chr2	68527	BC115608	Ucma	Mus musc	174.1695	56.4725	36.2281
chr1	269120	BC115928	Optc	Mus musc	379.5945	165.3115	76.9286
chr11	327954	AK051796	Dnahc2	Mus musc	225.1375	96.3375	98.1055
chr4	20301	AK005753	Ccl27a	Mus musc	999.6635	428.7695	261.0335
chr3	1E+08	XM_00148	Gm10681	PREDICTI	22.1085	9.6411	8.1678
chr16	207227	AK082159	Stxbp5l	Mus musc	18.1675	5.3545	6.2663
chr13	72677	XM_00147	2810049E	PREDICTI	126.6135	27.8711	26.0789
chr6	72720	BC082571	Zfp248	Mus musc	794.3155	237.2309	346.6915
chr2	14049	AK137718	Eya2	Mus musc	1654.966	661.4055	722.3938
chr6	N/A	AK082250	N/A	Mus musc	113.4755	41.7298	36.1166
chr11	21833	BC046795	Thra	Mus musc	18088.86	7906.08	7604.972
chr8	71069	AK129346	Stox2	Mus musc	4380.631	1630.982	1903.695

chr9	18667	BC145807	Pgr	Mus musc	561.2975	140.3415	245.3635
chr19	68423	AK089186	Ankrd13d	Mus musc	1405.973	362.8331	418.0615
chr13	67263	BC021521	Zswim6	Mus musc	2181.146	670.718	953.7295
chr11	207165	BC046973	Bptf	Mus musc	2007.632	579.8715	877.8615
chr12	74521	AK018414	Ppp4r4	Mus musc	438.7417	143.1035	191.8475
chr17	19743	BC101941	Rhag	Mus musc	224.8015	98.3273	48.7441
chr1	215378	AK140520	Fam5c	Mus musc	14.9989	5.5638	5.4282
chr1	20536	AK147218	Slc4a3	Mus musc	570.0115	198.7515	249.4654
chr2	14049	AY212512	Eya2	Mus musc	1693.906	657.9826	741.5115
chr18	75599	AY861418	Pcdh1	alt '201000	3864.196	1691.614	1584.955
chr2	27223	BC035206	Trp53bp1	Mus musc	8178.287	2826.49	3584.326
chr6	14760	AK132917	Gpr19	Mus musc	1450.868	635.9215	622.8595
chr1	19130	AK143179	Prox1	Mus musc	4766.766	1344.33	2089.428
chr11	66011	AK046865	Ranbp17	Mus musc	122.1509	44.6581	53.5679
chr3	18645	AK164145	Pfn2	Mus musc	15586.65	5186.466	6837.786
chr1	103967	AK164444	Dnm3	Mus musc	152.2775	32.0904	50.5183
chr7	330577	AK007315	Fam154b	Mus musc	234.9304	64.4001	75.4955
chr5	100737	BC108346	Dcun1d4	Mus musc	4090.796	1796.45	1739.118
chr10	331188	XM_00147	Zfp781	PREDICTI	645.4055	251.4135	283.4755
chr12	69732	AK134640	2410018L1	Mus musc	1272.5	549.2635	558.9646
chr11	27274	BC107400	Zfp354b	Mus musc	420.4635	149.5195	184.7275
chr7	619808	XM_88418	LOC61980	PREDICTI	78.3455	28.2317	34.4339
chr9	27215	AK013480	Azi2	Mus musc	30.8633	9.7776	13.5651
chr13	13206	AK133366	Ddx4	Mus musc	216.6591	85.4735	95.2275
chr4	19273	AK052720	Ptpu	Mus musc	1167.232	385.5091	513.0749
chr6	319655	AK087743	Podxl2	Mus musc	253.8695	69.9956	111.6301
chr16	70426	NM_00109	Tekt5	Mus musc	523.8076	158.3095	230.3715
chr9	74486	AK037617	Osbpl10	Mus musc	187.3191	72.2156	82.3924
chr4	320541	AK145065	A530082C	Mus musc	3052.094	1342.51	1341.578
chr6	13395	BC141628	Dlx5	Synthetic	1038.249	456.7047	426.2075
chr5	54201	AF031955	Zfp316	Mus musc	1241.562	449.9235	546.3389
chr5	11496	AB179846	Adam22	Mus musc	412.8605	108.5275	181.7154
chr8	80286	BC003311	Tusc3	Mus musc	14486.58	6376.108	5913.926
chr11	11302	AK155100	Aatk	Mus musc	8022.452	3531.937	3176.678
chr14	622640	XM_00147	Gm6337	PREDICTI	574.0895	253.0255	84.0248
chr11	237831	AK048944	Slc13a5	Mus musc	36.5831	12.267	13.3374
chr16	385658	AK157499	Fam55c	Mus musc	403.4275	97.8556	177.8395
chr4	242408	AK076680	4930412F1	Mus musc	32.851	12.7641	14.4835
chr18	56386	BC011149	B4galt6	Mus musc	4102.499	1176.03	1504.52
chr11	103768	BC078446	Tubg2	Mus musc	370.4922	154.3075	163.385
chr1	68226	BC025062	Efcab2	Mus musc	1763.918	759.5087	777.9035
chr2	214968	AK122515	Sema6d	Mus musc	17377.83	6678.388	7664.327
chr4	75445	XM_00147	1700008B	PREDICTI	3966.409	1409.44	1307.466
chr4	68099	BC055848	Fam92a	Mus musc	236.7815	48.471	104.4475
chr6	71835	BC016072	Lancl2	Mus musc	7481.256	3301.942	3064.625
chr4	16561	BC152807	Kif1b	Synthetic	10222.72	4512.998	3616.282
chr4	107684	AK154247	Coro2a	Mus musc	2332.942	851.3848	1030.024
chr8	72185	AK163434	Dbndd1	Mus musc	621.0795	262.2515	274.4035
chr12	217705	AK034254	Fam161b	Mus musc	1527.91	675.1775	331.8675
chr14	66573	AK021163	Dzip1	Mus musc	338.0875	58.7095	97.3095
chr12	59036	BC145833	Dact1	Mus musc	7771.096	2665.404	3437.802
chr11	N/A	AK144295	N/A	Mus musc	243.3924	64.9297	107.6875
chr1	545389	NM_00109	Cep170	Mus musc	5387.939	1450.569	2384.3



chr4	100473	AK040278	BB031773	Mus musc	37.9191	16.7824	10.7923
chr18	77433	AK036466	9430076G	Mus musc	147.3815	65.242	42.9066
chr2	241846	BC099395	Lsm14b	Mus musc	3511.629	1439.903	1554.858
chr12	208439	AK122572	Klhl29	Mus musc	878.8675	241.0735	389.1906
chr12	16593	BC055744	Klc1	Mus musc	25076.3	10447.25	11108.57
chr6	232232	BC016208	Hdac11	Mus musc	6454.732	2280.996	2860.039
chr11	57316	BC005436	C1d	Mus musc	449.0595	147.4017	199.0675
chrX	236733	AK031767	Usp11	Mus musc	11267.03	3692.218	4994.712
chr9	77781	BC018474	Epm2aip1	Mus musc	3782.61	1497.482	1676.874
chr16	17470	BC054759	Cd200	Mus musc	12281.24	3131.838	3590.074
chr18	66648	BC080777	5730494M	Mus musc	9850.142	4242.956	4369.172
chr11	22412	BC110482	Wnt9b	Mus musc	58.4758	16.8565	25.947
chr15	239546	BC055686	Zfp647	Mus musc	596.7815	193.5675	265.0055
chr6	12288	U17869	Cacna1c	Mus musc	1510.094	410.8475	670.6435
chr2	109241	BC050251	Mbd5	Mus musc	1556.843	684.5708	691.7894
chr8	75871	AK165387	Zfp821	Mus musc	4901.294	2027.008	2178.98
chr16	1E+08	XM_00148	LOC10004	PREDICTI	105.4555	46.8922	38.032
chr6	66640	BC094279	5730446D	Mus musc	403.9015	176.9562	179.6115
chrX	70237	NM_00109	Bhlhb9	Mus musc	7175.758	2824.507	3191.084
chr4	73094	AK147926	Sgip1	Mus musc	186.8435	69.9716	83.0935
chr4	19273	BC156888	Ptpru	Synthetic	1851.264	663.7055	823.3795
chr2	72543	BC049129	Fam125b	Mus musc	7871.724	3186.416	3501.63
chr14	76338	AK005230	Rab2b	Mus musc	5714.53	2444.572	2542.215
chr8	14559	NM_00810	Gdf1	Mus musc	1395.046	353.1895	542.7895
chr13	320163	AK029746	4930525G	Mus musc	70.1136	31.1985	29.7261
chr16	212517	AK145482	Wdr52	Mus musc	377.8521	145.2015	168.144
chr14	1E+08	XM_00147	Gm2888	PREDICTI	708.6215	315.4715	96.5773
chr12	50779	AK053087	Rgs6	Mus musc	393.4455	99.9745	175.1935
chr16	71911	BC043683	Bdh1	Mus musc	6588.423	2747.408	2934.429
chr11	N/A	AF369655	N/A	Mus musc	302.4055	85.3955	134.7075
chr6	13395	BC140253	Dlx5	Synthetic	1061.782	471.3055	473.033
chr17	106757	BC116633	Tmem146	Mus musc	134.4375	52.9447	59.9231
chr11	69739	AK010390	2410004I0	Mus musc	71.5216	31.8818	28.7825
chr9	69430	AK006252	1700048O	Mus musc	2792.448	1063.62	1244.916
chr17	18189	AK139280	Nrxn1	Mus musc	122.3055	22.3431	19.4723
chr7	1E+08	XM_00147	Gm4358	PREDICTI	263.4475	108.4175	96.7095
chr10	27204	AK048643	Syn3	Mus musc	29.2224	7.4142	9.5815
chr17	50782	BC037655	Rgs11	Mus musc	351.9855	130.3498	148.7095
chr8	213027	BC042653	Evi5l	Mus musc	8842.6	3949.043	3614.544
chr15	67638	BC087915	4930483J1	Mus musc	90.4115	40.3784	32.6462
chr4	667768	AK131821	Gm11240	Mus musc	15.6427	6.773	6.6817
chr14	1E+08	XM_00147	Gm3642	PREDICTI	583.2658	260.6395	105.9735
chr14	1E+08	XM_00147	Gm3127	PREDICTI	515.6735	230.4385	102.3935
chr9	76500	BC060059	Ip6k2	Mus musc	6668.19	2980.463	2829.006
chr2	228355	AY263985	Madd	Mus musc	12192.99	4840.856	5130.498
chr11	237758	AK046117	Zfp454	Mus musc	1140.55	500.1795	510.0215
chr8	1E+08	XM_00147	Gm3134	PREDICTI	87.8595	33.2845	27.231
chr5	231912	BC030434	Katnal1	Mus musc	3321.324	1370.268	1485.459
chr7	628854	XM_90095	Gm15517	PREDICTI	173.1915	77.4638	63.2421
chr7	381884	XM_35590	Slc6a16	PREDICTI	76.1955	34.0955	23.3522
chr17	240058	AK079192	Cpne5	Mus musc	2021.154	866.4375	904.6535
chr7	319604	AK137424	Fam168a	Mus musc	8024.88	2989.562	3592.448
chr11	276852	AK139389	D11Wsu47	Mus musc	169.8225	62.1185	76.0355

chrX	75625	BC051935	Mageh1	Mus musc	10316.38	3957.91	4619.113
chr13	207615	BC046236	Wdr37	Mus musc	3684.72	1467.93	1651.072
chr18	74453	AK016821	Ccdc11	Mus musc	119.9795	53.763	51.8136
chr6	77574	AK014379	Fam115a	Mus musc	24512.16	9256.83	10985.57
chr7	66078	AK002684	Tsen34	Mus musc	944.2143	423.6395	407.8637
chrX	N/A	AK135254	N/A	Mus musc	65.022	29.174	24.6472
chr7	233066	BC056649	Al428936	Mus musc	365.3215	150.3955	163.9255
chr5	83762	NM_00110	Otof	Mus musc	495.2965	21.2557	22.8582
chr13	271127	BC034739	Adamts16	Mus musc	1291.952	484.753	579.9182
chr6	67602	BC119133	Necap1	Mus musc	3359.048	1509.227	1413.444
chr9	319405	AK082555	D430036J	Mus musc	833.7975	188.8715	374.6584
chr6	13619	BC046535	Phc1	Mus musc	3386.442	1215.924	1521.684
chr15	12563	AK134611	Cdh6	Mus musc	53.9015	10.776	24.2252
chr2	N/A	AK146150	N/A	Mus musc	13.7392	5.9943	5.2339
chr7	233066	BC004761	Al428936	Mus musc	296.8275	133.503	116.4615
chr12	14026	AK151633	Evl	Mus musc	15106.91	6510.306	6797.384
chr1	269209	BC058698	Stk36	Mus musc	526.9915	128.944	237.1306
chr4	100072	AK168378	Camta1	Mus musc	6426.702	1821.31	2167.888
chr5	14626	BC061147	Gk2	Mus musc	17.6235	7.357	7.9316
chr19	66704	BC019488	Rbm4b	Mus musc	6579.984	2516.896	2891.496
chr12	268534	AK087560	Sntg2	Mus musc	57.4464	12.876	25.8629
chr5	1E+08	AK133032	Gm3970	Mus musc	37.5059	16.8887	14.1071
chr4	242443	AK044171	Grin3a	Mus musc	14.2172	6.2896	6.0143
chr3	1E+08	XM_00147	Gm3165	PREDICTI	20.1298	7.178	7.1678
chrX	14933	AK044308	Gyk	Mus musc	1406.144	569.2215	633.7955
chr2	76218	AK019889	6430710C	Mus musc	24.1041	10.0075	8.7239
chr2	228356	BC049648	1110051M	Mus musc	742.2455	276.9695	334.6275
chr1	258483	BC128013	Olfr1411	Mus musc	54.4943	24.581	19.187
chr1	68875	AK157378	Tmcc2	Mus musc	6089.102	1911.21	2747.172
chrX	594844	AK158996	Tceal3	Mus musc	125.1755	34.626	56.4771
chr2	228598	AF387631	Ebf4	Mus musc	425.4355	146.5215	191.9535
chr12	238130	AK163672	Dock4	Mus musc	2391.753	933.8915	1079.288
chr3	229214	BC096610	Qrfpr	Mus musc	27.3119	9.126	12.3309
chr3	16497	AK004666	Kcnab1	Mus musc	367.0906	108.5275	165.7875
chr17	106794	AK053628	Dhx57	Mus musc	5666.58	2190.946	2559.62
chr7	627214	AK140373	Fam196a	Mus musc	1034.325	321.256	300.5795
chr10	544736	XM_00148	Glipr1I3	PREDICTI	27.0489	7.3009	12.2212
chr3	73611	AK007174	1700112D	Mus musc	26.8442	10.9129	12.1405
chr17	66931	BC061078	1700010I1	Mus musc	170.3453	52.8689	77.0479
chr19	19726	AK140928	Rfx3	Mus musc	3003.424	1169.775	1358.692
chr14	673676	XM_00147	Gm9602	PREDICTI	526.1383	238.0235	69.9674
chr5	54201	BC057078	Zfp316	Mus musc	4428.705	1631.77	2003.6
chr2	17183	AJ006140	Matn4	Mus musc	253.1175	65.8439	114.5655
chr5	70918	AK035181	Nsun7	Mus musc	296.3795	108.1755	134.2215
chr4	70088	BC061024	Meaf6	Mus musc	5913.179	2247.738	2429.9
chr2	94217	AK079359	Lrp1b	Mus musc	37.7832	8.2439	10.8597
chr2	67839	BC071197	Gpsm1	Mus musc	5795.121	2096.648	2626.818
chr19	56473	AK192544	Fads2	Mus musc	10278.84	4659.996	4151.544
chr7	56843	AK035197	Trpm5	Mus musc	504.4535	222.4095	228.7215
chr5	231045	AK029839	4931409K	Mus musc	29.1553	13.2259	12.8574
chr8	403185	NM_00110	4932443I1	Mus musc	31.15	11.6532	14.1331
chrX	69299	BC061038	Asb9	Mus musc	35.7464	13.9072	16.2203
chr18	75533	AK138562	Nme5	Mus musc	263.1255	84.9915	98.1055



chr6	13619	AK167590	Phc1	Mus musc	6642.42	2597.101	3015.558
chr9	234889	BC156682	Gucy1a2	Synthetic	2660.242	839.4224	1208.224
chr1	329165	BC079545	Abi2	Mus musc	4756.718	1607.4	2161.146
chr8	75871	AK136168	Zfp821	Mus musc	2684.68	1086.695	1219.88
chr6	75541	BC029200	1700019G	Mus musc	388.1715	160.6475	176.419
chr13	56421	AK076803	Pfcp	Mus musc	2884.972	366.6155	443.9995
chr11	108686	AK051140	Ccdc88a	Mus musc	2579.35	966.1103	1172.55
chr17	240041	BC078460	A630033E	Mus musc	771.3715	265.5475	350.6609
chr17	15006	BC080812	H2-Q1	Mus musc	109.2795	32.7857	31.0394
chr10	213402	AK131686	Armc2	Mus musc	231.2435	80.6277	105.1755
chr14	1E+08	XM_00148	Gm4675	PREDICT	117.3935	53.3942	48.1781
chr2	209645	BC096430	Bend7	Mus musc	949.0758	349.5255	431.6695
chr11	72014	BC060053	Btbd17	Mus musc	347.3526	77.7594	91.7195
chr8	68999	BC031460	Anapc10	Mus musc	204.218	72.9736	92.9615
chr17	245847	AK078259	Amdhd2	Mus musc	930.5555	423.6115	335.8245
chr11	380686	BC087946	Cnrip1	Mus musc	7074.656	2988.768	3220.584
chr1	227331	AK011414	Gigyf2	Mus musc	1447.998	479.5775	650.0755
chr3	77018	AK012466	Col25a1	Mus musc	1289.851	390.6595	587.5915
chrX	236915	AK038840	Arhgef9	Mus musc	8160.704	3718.077	2437.706
chr9	59092	BC010694	Pcbp4	Mus musc	8430	3003.872	3840.884
chr13	56044	BC031741	Rala	Mus musc	7001.492	2728.888	3190.94
chr17	224613	AK168389	Flywch1	Mus musc	1520.668	619.8735	693.0699
chr19	24087	BC132537	Tll2	Mus musc	409.0315	128.8935	186.4675
chr2	18761	BC145769	Prkcq	Mus musc	5214.281	1502.058	1825.604
chr11	216643	BC025550	Gabrp	Mus musc	3009.876	1207.792	1373.798
chr9	319405	AK162636	D430036J	Mus musc	930.4435	180.4635	424.9075
chrX	75625	BC058380	Mageh1	Mus musc	10864.11	4262.296	4962.644
chr1	215690	AK122458	Nav1	Mus musc	5310.806	2123.59	2426.091
chr6	18575	AK030423	Pde1c	Mus musc	155.068	47.0544	70.8476
chr1	213409	BC048759	Lemd1	Mus musc	81.5655	26.6695	18.442
chr18	225207	BC021376	Zfp521	Mus musc	9367.856	3573.989	4281.304
chr14	70713	AK018183	Gpr137c	Mus musc	184.2295	55.306	84.2364
chr17	73451	BC056193	Zfp763	Mus musc	1022.304	417.9975	467.6295
chr2	227632	AK086119	Kcnt1	Mus musc	128.6175	58.9093	28.8241
chr16	78433	AK038602	A930006K	Mus musc	217.3858	99.5784	88.4155
chr9	102774	BC145771	Bbs4	Mus musc	1353.498	521.5135	620.1875
chr3	52245	BC119316	Commd2	Mus musc	699.1605	294.7177	320.4035
chr6	73998	AK017531	Herc3	Mus musc	311.7227	73.5415	142.9035
chr14	1E+08	XM_00147	Gm2974	PREDICT	4087.554	1874.176	728.0755
chr16	50528	BC038393	Tmprss2	Mus musc	157.7795	72.3536	60.6309
chr9	74443	AK161992	P4htm	Mus musc	85.9975	29.1553	37.3158
chr13	67269	AK133215	Agtpbp1	Mus musc	4154.112	1847.178	1905.506
chr5	56361	AK044789	Pus1	Mus musc	269.8615	118.6975	123.8355
chr6	64213	BC051429	St7	Mus musc	290.5197	84.6715	133.3415
chr12	338372	AK155677	Map3k9	Mus musc	4860.706	2168.498	2231.74
chr12	72669	BC065777	2810032G	Mus musc	899.2915	412.9515	393.8155
chr8	73020	XM_00147	2900073C	PREDICT	341.8019	110.3509	156.9595
chr2	13711	BC021629	Elf5	Mus musc	311.2135	57.5224	42.9582
chr17	N/A	AK032863	N/A	Mus musc	390.0795	179.1535	164.3359
chr5	76071	AK042223	Jakmip1	Mus musc	31.72	10.7423	12.4858
chr4	56323	BC048902	Dnajb5	Mus musc	1381.272	509.1015	635.038
chr4	140577	AK133551	Ankrd6	Mus musc	1589.786	607.9875	731.0646
chr2	414081	AK030453	5330413P	Mus musc	39.1252	13.9325	13.1237

chr16	N/A	AK087806	N/A	Mus musc	33.2537	15.3112	10.898
chr2	209645	BC119370	Bend7	Mus musc	873.7495	402.3704	398.3895
chr11	66011	BC033503	Ranbp17	Mus musc	320.6275	108.4077	147.6683
chr8	23965	AF195418	Odz3	Mus musc	6483.743	1788.964	2987.916
chr7	56843	BC133712	Trpm5	Mus musc	521.6695	240.4035	195.9182
chrX	14567	BC013758	Gdi1	Mus musc	31503.37	14523.76	14456.31
chr14	72661	BC115492	Serp2	Mus musc	143.8298	53.9575	66.3359
chr16	69101	AK076869	Ydjc	Mus musc	148.8575	68.6557	61.9005
chr5	54216	AY861419	Pcdh7	alt '-'	3860.376	923.2102	1191.736
chr7	11778	BC060236	Ap3s2	Mus musc	4527.671	1881.38	1979.714
chr3	329735	AK030251	4933431E2	Mus musc	3219.43	1249.625	1167.408
chr8	22751	BC046230	Zfp90	Mus musc	475.9255	130.7615	219.7387
chr11	18195	BC006627	Nsf	Mus musc	11404.37	4616.272	5268.464
chr8	66822	AK134722	Fbxo25	Mus musc	3370.982	1500.538	1557.937
chr16	72555	AK012380	2700045P	Mus musc	89.2215	35.5451	41.2467
chr17	54393	AK159584	Gabbr1	Mus musc	6062.175	1692.044	1910.984
chr8	234214	AK050951	Sorbs2	Mus musc	2083.818	534.1075	964.0524
chr4	381511	NM_00109	Pdp1	Mus musc	723.6355	171.1135	253.4269
chr1	347722	AK147521	Agap1	Mus musc	8715.752	3036.164	4033.113
chr8	234878	BC021891	BC021891	Mus musc	98.6155	31.6612	25.1961
chr9_randc	19054	BC096544	Ppp2r3d	Mus musc	2963.271	1172.274	1371.84
chr17	319991	AK083760	Kif6	Mus musc	178.3215	49.0561	82.5835
chr11	55963	BC052733	Slc1a4	Mus musc	5704.107	2454.538	2642.456
chr18	108052	AK041979	Slc14a1	Mus musc	1594.35	421.6015	455.7707
chr11	216613	AK087070	Ccdc85a	Mus musc	134.6796	62.4144	57.8875
chr7	75538	AK018715	Fam71e1	Mus musc	207.6815	96.329	81.5175
chr4	1E+08	AK005641	Gm11837	Mus musc	741.2124	343.8255	288.4035
chr14	1E+08	XM_00147	Gm3597	PREDICT	548.7355	254.5955	88.4155
chr6	330286	AK129390	D630045J	Mus musc	79.8515	37.072	33.0825
chr1	72750	BC080299	Fam117b	Mus musc	7573.302	2917.639	3516.124
chr11	12921	AF369654	Crhr1	alt 'CRFR'	203.0155	47.3034	94.2595
chr15	54375	NM_00110	Azin1	Mus musc	234.3075	72.1344	108.8215
chr2	228356	BC085239	1110051M	Mus musc	3241.19	1128.664	1222.556
chr11	268481	BC079890	Krt222	Mus musc	346.4935	84.4559	122.3455
chr2	13429	L29457	Dnm1	Mus musc	15748.37	5582.842	7318.12
chr15	18810	AF188017	Plec1	Mus musc	329.7635	153.2555	152.5716
chr1	269209	AK047284	Stk36	Mus musc	483.5195	147.1536	224.8935
chr10	22295	AY563163	Cdh23	Mus musc	174.8735	81.3395	54.0653
chr5	N/A	BC062895	N/A	Mus musc	369.2835	171.9303	124.9253
chr12	238130	BC156169	Dock4	Synthetic	3332.06	1551.484	1539.786
chr2	1E+08	XM_00148	Gm4430	PREDICT	2090.648	699.5347	973.6074
chr1	17756	AK086484	Mtap2	Mus musc	467.0832	138.0335	140.1795
chr2	67839	AK084631	Gpsm1	Mus musc	5834.137	2013.556	2717.157
chr9	72341	NM_00108	2610002I1	Mus musc	2157.888	1005.114	913.5935
chr2	208967	AK087148	Thnsl1	Mus musc	78.4584	19.0204	36.5493
chr4	381546	BC026478	Ccdc24	Mus musc	453.8801	172.6475	211.4515
chr5	231570	AK043720	A830010M	Mus musc	2355.072	1092.565	1097.588
chr6	21333	AK019709	Tac1	Mus musc	37.6003	17.5282	8.4231
chr13	624056	XM_62133	Gm6469	PREDICT	65.4	11.7032	14.307
chr3	21744	BC107346	Adad1	Mus musc	33.1323	15.21	15.4621
chr17	67544	BC085163	Fam120b	Mus musc	949.9455	368.8155	443.4228
chr9	26611	AK079156	Rcn2	Mus musc	223.1825	80.7675	104.2155
chr6	16494	AK134477	Kcna6	Mus musc	672.4281	239.0555	314.0115



chr1	71141	XM_97681	4933407L2	PREDICT	59.6451	27.8564	22.2332
chr12	21340	BC019993	Taf1b	Mus musc	500.1034	165.7995	210.2895
chr2	241289	BC070440	Gm347	Mus musc	2871.592	791.0667	1341.452
chrX	1E+08	XM_00147	Gm16397	PREDICT	2345.556	889.3566	1095.726
chr12	N/A	AK220058	N/A	Mus musc	1427.4	667.0695	526.7975
chr10	1E+08	XM_00147	Gm2114	PREDICT	130.8995	38.4524	61.1842
chr12	217944	BC046627	Rapgef5	Mus musc	3750.14	1694.414	1753.122
chr3	18417	BC021659	Cldn11	Mus musc	1236.472	411.7995	578.1109
chr17	1E+08	XM_00147	Dynl1f	PREDICT	3328.491	1035.052	1556.617
chr6	21753	BC010465	Tes	Mus musc	8405.541	3667.112	3933.19
chr9	67667	AK016188	Alkbh8	Mus musc	2606.319	1132.855	1219.596
chr11	66011	AK035897	Ranbp17	Mus musc	53.2983	19.5976	24.9413
chr13	N/A	AK203628	N/A	Mus musc	5553.204	2601.248	2523.789
chr9	74638	AK015254	Zcwpw2	Mus musc	129.3878	50.5727	60.6522
chr13	238690	BC062958	Zfp458	Mus musc	509.0039	141.0284	174.2315
chr7	233057	AK139326	BC027344	Mus musc	983.9575	276.3855	461.4886
chr7	14174	BC117059	Fgf3	Mus musc	31.3154	11.5991	7.6574
chr7	330627	AY572454	Trim66	alt 'D7H11	76.6955	20.5412	35.8882
chr17	320784	AK087338	C230072F	Mus musc	78.2648	36.7319	18.9205
chr14	75438	BC100412	1700001E0	Mus musc	531.5426	249.4755	92.9115
chr2	13828	AK089080	Epb4.2	Mus musc	135.9235	63.8002	54.0214
chr7	319783	AK043101	A730056A	Mus musc	383.2695	126.2275	179.9175
chr2	53872	NM_00111	Caprin1	Mus musc	2132.573	892.0355	1001.263
chr1	N/A	XM_00147	N/A	PREDICT	14856.29	6975.318	6773.261
chr10	237459	AK078325	Pctk2	Mus musc	2482.324	1063.022	1166.252
chr13	71991	BC056463	Ercc8	Mus musc	611.2615	251.2375	287.3215
chr7	66078	AK003757	Tsen34	Mus musc	828.6109	389.5675	389.0108
chr18	629292	XM_89415	Gm6960	PREDICT	239.9715	106.0755	112.8715
chr8	74440	AK016712	4933407C0	Mus musc	11288.42	4639.24	5309.688
chr17	225020	BC052366	Fez2	Mus musc	2557.929	948.8895	1203.616
chr15	14787	AK220431	Rhpn1	Mus musc	565.9135	209.5675	266.2915
chr4	230025	AK149252	Prdm13	Mus musc	27.5508	12.965	12.5856
chrX	170828	BC145949	Vgll1	Mus musc	87.4475	30.7459	18.6417
chr14	545013	BC090991	Gm5797	Mus musc	291.1935	137.0895	58.104
chr11	213084	AK186403	Cdkl3	Mus musc	401.7375	177.9035	189.1875
chr18	93885	BC059821	Pcdhb14	Mus musc	474.5389	159.5868	223.4835
chr4	66536	BC019505	Nipsnap3b	Mus musc	3066.832	1444.724	1159.102
chr7	71568	AK034016	9030407P2	Mus musc	70.2916	32.2201	33.1378
chr13	110789	AB086166	Gpr98	Mus musc	38.1634	17.9915	9.8438
chr12	382686	AK014209	3110053B	Mus musc	1458.17	560.4848	443.6498
chr5	67878	BC016570	Tmem33	Mus musc	3156.276	1334.864	1488.248
chr8	234734	BC033273	Aars	Mus musc	163.6555	53.8755	77.1855
chr4	17480	BC103515	Mpl	Mus musc	55.3959	20.8596	26.1284
chr5	231605	BC054061	Galnt9	Mus musc	2408.567	630.0355	1136.213
chr15	83797	BC026783	Smarcd1	Mus musc	5798.024	2735.451	2387.232
chr2	20941	BC115604	Svs4	Mus musc	20.1678	9.5161	7.885
chr8	17207	AK122259	Mcf2l	Mus musc	7061.256	2044.808	1669.73
chr16	22129	AK084201	Ttc3	Mus musc	13204.8	4874.374	6231.742
chr15	110310	BC030403	Krt7	Mus musc	1058.038	479.6955	499.4195
chr11	71059	BC115597	Hexim2	Mus musc	1918.182	905.9715	723.1737
chr18	15200	BC089607	Hbegf	Mus musc	1946.346	696.6423	919.3675
chr14	1E+08	XM_00147	Gm3453	PREDICT	479.8235	226.7795	67.3818
chr7	26368	BC140237	Ceacam9	Synthetic	37.1293	17.5492	9.1177

chr6	78937	AK083605	Avi9	Mus musc	2769.614	1309.384	1176.134
chr5	207686	BC062906	A330021E	Mus musc	908.7915	129.1355	265.1035
chr5	666527	XM_98438	Gm8148	PREDICT	50.1541	23.7385	22.532
chr9	73774	AK015183	4930422M	Mus musc	185.9455	73.2468	88.0195
chr11	319162	BC063781	Hist3h2a	Mus musc	738.9587	288.3094	349.9202
chr4	70025	AB088412	Acot7	Mus musc	8276.787	3635.966	3680.124
chr11	213084	AK046394	Cdkl3	Mus musc	222.2691	101.0215	105.2801
chr11	22318	BC039745	Vamp2	Mus musc	23270.29	9442.868	9836.276
chr14	N/A	XM_00147	N/A	PREDICT	3704.146	1754.829	621.9743
chr6	320172	XM_98963	E230016M	PREDICT	174.6215	65.404	82.7575
chr2	51902	BC096529	Rnf24	Mus musc	5008.512	2374.298	2329.628
chr12	268527	AK045057	Greb1	Mus musc	139.6602	66.2083	65.8879
chr14	1E+08	XM_00147	Gm3149	PREDICT	390.8935	185.3423	73.5943
chr12	14009	AK032224	Etv1	Mus musc	403.7615	191.4595	184.1345
chr4	242409	NM_00108	Tmem8b	Mus musc	2699.814	1077.474	1256.131
chr4	26562	AK170502	Ncdn	Mus musc	5150.872	2020.078	2443.087
chr5	231807	AK138960	BC037034	Mus musc	11317.77	3894.986	4876.816
chr18	240261	XM_14032	Ccdc112	PREDICT	2307.91	828.6378	1095.012
chr14	114874	AK129425	Ddhd1	Mus musc	895.7017	425.1157	377.5615
chr8	64296	AK037669	Abhd8	Mus musc	244.3015	98.1575	116.0403
chr13	68558	AK054037	Ankra2	Mus musc	1965.264	777.1395	781.7135
chr8	213027	AK155998	Evi5l	Mus musc	8201.196	3804.824	3757.532
chr15	75729	AK017017	4933432B	Mus musc	251.7195	59.0135	119.7215
chr7	76787	AK147645	Ppfia3	Mus musc	9100.188	3926.238	4328.378
chr11	192651	BC027023	Zfp286	Mus musc	867.0946	269.5875	412.4221
chr2	228355	AK122257	Madd	Mus musc	12250.03	4698.13	5578.108
chr12	66808	AK020080	9030624G	Mus musc	1241.316	590.5403	439.7955
chr8	65115	BC030426	mCG_2154	Mus musc	2135.91	707.7735	1016.164
chr1	66425	BC126965	Pcp41	Mus musc	772.7958	270.9075	367.9395
chrX	66780	BC125317	4933436I	Mus musc	15.942	7.593	7.1685
chr5	13048	AK006762	Cux2	Mus musc	33.9519	8.5837	8.0131
chr6	78482	NR_00364	1700123L1	Mus musc	28.355	10.0832	11.1205
chr6	77574	AK076242	Fam115a	Mus musc	16435.9	6213.929	7839.636
chr2	70715	XM_91751	6330405D	PREDICT	28.8241	11.957	13.7512
chr11	18948	BC119079	Pnmt	Mus musc	373.842	118.9795	140.3415
chrX	56364	BC082320	Zmym3	Mus musc	2375.003	1133.744	1022.323
chr6	320538	BC043095	Ubn2	Mus musc	1024.006	440.7255	488.9388
chrX	54609	BC053022	Ubqln2	Mus musc	11882.5	5073.1	5674.408
chr17	224671	BC057897	Btbd9	Mus musc	5237.77	2503.104	2501.198
chr11	66456	AK005116	2810001G	Mus musc	119.2215	43.5588	57.0001
chr13	75050	AK015814	Kif27	Mus musc	40.7978	17.5141	19.5057
chr8	1E+08	XM_00147	Gm3049	PREDICT	51.0103	24.3897	8.8562
chr2	22343	BC046966	Lin7c	Mus musc	15551.88	5837.53	7436.688
chr13	N/A	AK029894	N/A	Mus musc	72.5496	20.2341	34.6922
chr2	228355	AK163518	Madd	Mus musc	8040.614	3334.31	3400.061
chr12	319670	BC027154	Eml5	Mus musc	564.3235	234.9095	269.9775
chr7	243937	BC033594	Zfp536	Mus musc	1749.484	302.4995	837.1795
chr11	216825	BC080737	Usp22	Mus musc	15502.48	6779.128	7421.495
chr10	70337	BC023358	lyd	Mus musc	119.6415	44.2304	41.9614
chr19	14179	BC048734	Fgf8	Mus musc	44.5368	18.9354	21.3235
chr18	13506	BC004663	Dsc2	Mus musc	580.8435	194.9555	261.2844
chr16	17470	BC051984	Cd200	Mus musc	12224.04	3256.796	3634.884
chr12	320046	AK089514	F730043M	Mus musc	352.6715	135.6026	160.3429



chr3	N/A	AK162138	N/A	Mus musc	34.165	12.5069	16.3725
chr17	94185	BC016420	Tnfrsf21	Mus musc	14819.42	5635.318	7103.35
chr3	18767	BC048244	Pkia	Mus musc	7887.568	2395.122	3433.862
chr3	22329	AK016465	Vcam1	Mus musc	1264.258	518.0036	606.1715
chrX	237107	BC020354	Gnl3l	Mus musc	10275.68	4353.244	4927.438
chr10	N/A	AK217990	N/A	Mus musc	2731.15	1119.524	1262.79
chr5	209683	BC002262	Ttc28	Mus musc	6439.44	2912.366	3089.15
chr9	74100	AK029467	Arpp21	Mus musc	191.8555	79.1913	92.0495
chr2	22193	BC011477	Ube2e3	Mus musc	8542.632	3463.43	4098.941
chr4	277743	NM_00108	Fam131c	Mus musc	1916.414	919.6161	315.5515
chr6	50501	BC116911	Prok2	Mus musc	121.3275	23.6708	58.234
chr14	1E+08	XM_00147	Gm3642	PREDICT	1629.245	782.0487	309.6095
chr4	107684	AK170184	Coro2a	Mus musc	2818.343	1274.534	1352.872
chr7	319604	BC079886	Fam168a	Mus musc	11637.69	4787.226	5589.244
chr5	13839	AK049740	Epha5	Mus musc	19.3367	7.0689	9.2921
chr19	N/A	AK049068	N/A	Mus musc	125.8395	32.4077	60.4769
chr13	N/A	XM_88873	N/A	PREDICT	81.5992	10.2023	22.3338
chr1	71227	BC145995	Wdr69	Mus musc	18.4144	7.0951	7.4591
chr16	246048	BC117071	Chodl	Mus musc	2295.073	714.3795	1103.724
chr4	26372	BC148372	Clcn6	Synthetic	7620.309	3665.183	3438.814
chr7	69349	XM_13345	1700008O	PREDICT	129.3535	46.9726	62.2299
chr14	1E+08	XM_00147	Gm3460	PREDICT	613.3081	295.1075	105.2475
chr1	93691	BC019604	Klf7	Mus musc	5163.756	2478.578	2484.826
chr17	675572	XM_00148	Gm9647	PREDICT	127.8653	61.5346	30.4897
chr6	30956	BC005420	Aass	Mus musc	399.0015	90.442	192.1015
chr7	68992	BC066001	Zfp580	Mus musc	1429.425	559.0135	688.3728
chr2	227634	BC024715	Camsap1	Mus musc	7603.052	3282.122	3663.824
chr4	58864	BC048470	Tssk3	Mus musc	55.6995	20.2402	20.0528
chr16	70458	AK146836	2610318N	Mus musc	352.7949	170.172	169.9333
chr7	233280	BC055828	Nipa1	Mus musc	4988.959	1953.341	2407.95
chr1	19702	NM_03119	Ren2	Mus musc	127.3315	38.6159	51.9563
chr1	19130	BC051411	Prox1	Mus musc	3409.594	1044.26	1646.049
chr10	368203	BC120506	Gm5136	Mus musc	57.1306	24.1176	27.601
chr12	623046	XM_88748	Fscb	PREDICT	16.796	8.1161	7.5424
chr12	544848	XM_00100	Gm5784	PREDICT	1104.224	533.6761	444.5115
chr5	57914	BC016580	Crif2	Mus musc	1323.118	518.7076	639.7375
chr18	71373	AK081911	Prr16	Mus musc	56.2672	8.7731	27.2107
chr9	235380	AK173043	Dmxl2	Mus musc	729.1055	227.9055	352.6075
chr11	216881	AK049137	Wscd1	Mus musc	16.2071	6.7386	7.4769
chr14	N/A	AK201583	N/A	Mus musc	2196.756	959.9797	1062.714
chr19	78073	AK040090	6720468P	Mus musc	264.2735	58.4558	127.8768
chr3	665113	BC050868	Tnik	Mus musc	3004.106	605.7175	865.194
chr14	1E+08	XM_00147	Gm16525	PREDICT	147.9618	71.6609	41.1805
chr7	N/A	AK213652	N/A	Mus musc	932.7249	391.0584	423.3135
chr14	320268	AK048595	B930095G	Mus musc	3646.368	1501.83	1766.162
chr13	1E+08	XM_00147	Gm3966	PREDICT	207.4988	69.0801	100.5795
chr5	209683	XM_00148	Ttc28	PREDICT	4250.89	1824.386	2060.626
chr2	12296	AK082315	Cacnb2	Mus musc	76.2535	12.314	25.0639
chr2	12841	AK038481	Col9a3	Mus musc	176.3855	66.0839	85.5166
chr10	331188	BC062127	Zfp781	Mus musc	645.2495	256.9017	312.9133
chr4	13131	BC051993	Dab1	Mus musc	4281.812	686.9155	970.5455
chr16	20621	BC087932	Snn	Mus musc	8469.653	4108.434	3904.149
chr8	23965	AK135844	Odz3	Mus musc	6780.928	2502.637	3289.642

chr19	52028	AK161343	Bbs1	Mus musc	716.0607	329.9974	347.394
chr5	17690	AK084019	Msi1	Mus musc	302.0115	119.4284	146.5615
chr12	238057	BC156128	Gdf7	Synthetic	80.2435	38.8199	29.9512
chr6	13619	AK036370	Phc1	Mus musc	6623.094	2604.94	3214.892
chr19	N/A	AK144100	N/A	Mus musc	8845.516	3648.866	4293.788
chr1	98403	BC019546	Zfp451	Mus musc	4353.434	1593.28	2113.822
chr7	75538	BC130017	Fam71e1	Mus musc	300.4615	145.9095	123.9295
chr19	240518	AK135575	Peli3	Mus musc	1046.928	442.2521	508.4615
chr8	244417	XM_14627	Gm501	PREDICTI	59.2055	28.7546	18.5183
chr6	19242	AK161964	Ptn	Mus musc	19067.68	8560.48	9262.978
chr1	320311	AK039635	Rnf152	Mus musc	211.7956	102.9035	67.5878
chr3	18749	AK139419	Prkacb	Mus musc	9849.032	4227.7	4785.544
chr19	207521	BC058647	Dtx4	Mus musc	8301.126	3675.38	4033.758
chr7	320452	BC082538	P4ha3	Mus musc	2204.337	1071.236	1048.602
chr7	67370	BC052747	Zfp606	Mus musc	1987.73	864.3933	966.3201
chr2	228355	BC042212	Madd	Mus musc	8206.836	3130.75	3990.142
chr9	N/A	AK076831	N/A	Mus musc	70.3001	34.1804	29.1351
chr2	99010	BC068131	Lpcat4	Mus musc	3777.02	1770.734	1836.616
chr2	13429	BC034679	Dnm1	Mus musc	12086.47	3939.384	5877.322
chr9	666257	XM_98263	Gm8008	PREDICTI	152.8095	22.3431	74.3088
chr10	14421	AK086849	B4galnt1	Mus musc	2816.02	753.0815	964.7015
chr4	230085	AK138412	N28178	Mus musc	563.4955	242.8575	204.1855
chr16	12724	BC120699	Clcn2	Mus musc	1538.53	698.1355	748.4188
chr17	106585	AK153850	Ankrd12	Mus musc	9941.112	4138.546	4837.26
chr7	1E+08	XM_00147	Gm10659	PREDICTI	121.4715	49.5976	46.5463
chr3	99633	AK034430	Lphn2	Mus musc	167.9291	31.5117	81.7319
chr11	77579	AK047340	Myh10	Mus musc	72.7576	24.6403	35.4388
chr18	13506	BC057867	Dsc2	Mus musc	271.1075	62.6604	127.8576
chr2	228852	AK042123	Ppp1r16b	Mus musc	391.5355	175.7835	190.8277
chr7	233902	BC059812	Fbxl19	Mus musc	15241.96	6918.567	7430.004
chr16	N/A	AK214451	N/A	Mus musc	8535.078	4161.146	3900.105
chr13	21752	BC127068	Tert	Mus musc	925.6635	335.1035	451.3075
chr1	545389	BC085106	Cep170	Mus musc	4911.852	1526.9	2395.064
chr7	1E+08	XM_00147	LOC10004	PREDICTI	111.8468	54.5508	32.7177
chr5	213081	AK043836	Wdr19	Mus musc	78.1215	38.1097	21.3434
chr6	12121	AK038585	Bicd1	Mus musc	25.1614	12.2838	9.3849
chr15	239393	BC058345	Lrp12	Mus musc	4458.816	2086.882	2177.296
chr5	269713	BC053048	Clip2	Mus musc	13619.56	4773.094	5366.207
chr1	240697	AK031395	6030422M	Mus musc	43.4135	11.8443	15.3876
chr16	239796	BC085092	1600021P	Mus musc	3013.295	1273.626	1472.338
chr6	54484	BC003329	Mkrm1	Mus musc	208.3558	97.911	89.4835
chr2	227618	BC024531	Lrrc26	Mus musc	58.8838	24.818	25.7257
chr13	77329	XM_97784	C030010C	PREDICTI	247.8095	111.1747	121.1309
chr9	320833	AK084170	D230004N	Mus musc	121.5815	35.3866	38.1596
chr15	54375	BC046814	Azin1	Mus musc	8611.712	3595.052	4210.37
chr19	225995	BC020125	D030056L	Mus musc	2084.362	951.4295	1019.314
chr4	16561	AF131865	Kif1b	Mus musc	6961.835	3404.796	2531.958
chr6	243548	BC050793	Prickle2	Mus musc	6724.06	2262.781	2506.323
chr9	74020	BC043087	Cpne4	Mus musc	571.7555	206.7135	279.6775
chr7	54006	BC046399	Deaf1	Mus musc	1865.333	902.0755	912.5759
chr6	12122	BC002031	Bid	Mus musc	4174.848	2042.634	1924.355
chr14	66435	AK048685	Uggt2	Mus musc	100.3272	45.5748	49.1184
chr18	13824	BC011099	Epb4.1I4a	Mus musc	474.6415	163.6235	232.4575

chr12	668158	XM_99464	Ccdc85c	PREDICT	2536.962	1165.476	1115.416
chr3	22065	AK082063	Trpc3	Mus musc	26.4018	8.626	12.9358
chr13	140580	BC031782	Elmo1	Mus musc	10071.78	4501.889	4936.405
chr7	56843	AK029187	Trpm5	Mus musc	153.3028	56.8234	75.1475
chr8	234373	AK042293	Sfrs14	Mus musc	2862.278	1267.688	1302.542
chr17	224671	AK153973	Btbd9	Mus musc	5511.068	2579.938	2703.086
chr11	14025	BC051418	Bcl11a	Mus musc	7319.054	3006.878	3589.975
chr2	1E+08	NM_00109	R3hdml	Mus musc	66.9898	32.8597	22.872
chr2	12672	BC120504	Chrm4	Mus musc	127.3955	47.8979	62.4915
chr9	67667	AK041810	Alkbh8	Mus musc	6375.996	2796.318	3129.748
chr10	319468	AK021038	Ppm1h	Mus musc	4750.494	987.2675	1178.526
chr5	231605	AK170381	Galnt9	Mus musc	2309.562	598.2395	999.3895
chr14	620376	AK045385	Gm6145	Mus musc	19.1463	6.3569	7.2058
chr8	234515	AK139397	Inpp4b	Mus musc	426.3455	99.1675	209.5227
chr2	241688	BC089524	6330439K	Mus musc	52.747	20.533	25.9256
chr16	22129	AK088273	Ttc3	Mus musc	20053.68	8466.272	9863.731
chr14	18185	AK044244	Nrl	Mus musc	15.1608	6.5157	7.4583
chr2	108832	AK077378	5430405G	Mus musc	29.6588	14.595	14.592
chr18	67847	AK016941	Sncaip	Mus musc	3936.78	1477.682	1937.408
chr11	12921	AF369656	Crhr1	alt 'CRFR'	789.5475	296.3295	388.5715
chr14	666800	XM_00147	Gm8297	PREDICT	469.7395	231.2115	77.205
chr11	66011	BC148412	Ranbp17	Synthetic	465.0943	183.4189	228.9694
chr10	67331	BC118977	Atp8b3	Mus musc	51.2437	23.5787	12.8906
chr5	171209	BC054460	Accn3	Mus musc	80.2875	37.0121	39.5332
chr13	13612	AK084215	Edil3	Mus musc	31.3168	15.1512	15.4223
chr4	545667	XM_62008	Fam159a	PREDICT	159.8775	70.8296	58.2119
chr11	12812	BC031167	Coil	Mus musc	2796.168	1235.448	1377.462
chr10	237459	BC064815	Pctk2	Mus musc	7283.232	3228.86	3588.334
chr14	16597	BC067408	Klf12	Mus musc	4666.466	1848.512	2299.172
chr1	669853	XM_00147	Gm10517	PREDICT	137.1895	67.6318	67.6318
chr6	58182	BC059003	Prokr1	Mus musc	219.1895	37.2236	108.0615
chr10	16545	BC114980	Kera	Mus musc	686.0328	216.3002	338.4274
chr2	227960	BC021450	Gca	Mus musc	359.8015	123.1035	177.5819
chr9	74638	BC104378	Zcwpw2	Mus musc	374.4635	184.841	166.393
chr1	18845	BC068155	Plxna2	Mus musc	16167.68	7581.058	7985.416
chr11	107476	AK040794	Acaca	Mus musc	135.7155	67.0518	65.6739
chr10	N/A	AK144843	N/A	Mus musc	22.8728	11.3024	9.615
chr19	19395	BC148631	Rasgrp2	Synthetic	4413.86	2181.497	2099.854
chr14	N/A	M38679	N/A	Mouse T-c	60.5249	12.7518	22.3982
chr7	N/A	AK076965	N/A	Mus musc	216.6075	48.6888	107.0695
chr5	20750	AK165965	Spp1	Mus musc	349.6984	64.7222	91.2547
chr10	14360	AK156584	Fyn	Mus musc	3216.702	1210.578	1567.87
chr7	20480	BC048175	Clpb	Mus musc	1558.192	736.1275	770.8416
chr2	67839	AK075789	Gpsm1	Mus musc	2529.868	1250.934	1252.24
chr10	320150	BC027101	Zdhhc17	Mus musc	2626.941	1248.76	1300.345
chr5	269717	BC115648	Orai2	Mus musc	740.9511	346.3735	366.805
chr7	1E+08	XM_00147	Gm10297	PREDICT	142.2135	70.4216	20.8013
chr3	18167	BC104733	Npy2r	Mus musc	392.0315	138.0495	194.1315
chr7	75556	BC061016	1700026D	Mus musc	44.6701	19.2031	22.1265
chr7	67607	AK036346	Zfp788	Mus musc	1616.971	778.1515	800.9895
chr5	19699	AK082447	Reln	Mus musc	53.9655	24.8917	26.7344
chrX	108012	AK043776	Ap1s2	Mus musc	4430.318	1174.83	1863.99
chr17	1E+08	XM_00147	Gm4078	PREDICT	133.7503	29.8143	66.2839

chr17	1E+08	AK137318	LOC10003	Mus musc	1242.452	615.8822	580.5915
chr7	1E+08	XM_00147	Gm3859	PREDICT	18.022	8.6085	8.9337
chr4	101739	AK139598	Psip1	Mus musc	7901.059	3448.811	3916.951
chr9	20840	BC107325	Stac	Mus musc	1061.382	481.5315	526.2035
chr1	11790	NM_00108	Speg	Mus musc	869.5835	315.7195	431.1549
chr9	68969	BC033505	Eif1b	Mus musc	3581.206	1387.899	1776.126
chr5	319216	AK039574	4932441J0	Mus musc	861.0589	381.1755	427.2975
chr9	382139	XM_00147	Gm1715	PREDICT	34.6842	9.9122	12.0495
chr6	12288	AY728090	Cacna1c	Mus musc	607.7367	158.6495	301.6755
chr13	68558	AK081695	Ankra2	Mus musc	1984.624	831.746	939.8015
chr16	71027	XM_00148	Tmem30c	PREDICT	20.2147	10.0394	8.4999
chr16	1E+08	XM_00148	Gm4659	PREDICT	1415.269	632.3735	702.9575
chr17	1E+08	XM_00147	Gm1604A	PREDICT	179.0815	88.957	65.4446
chr4	52187	AK081204	Rragd	Mus musc	1623.434	518.7915	806.4821
chr17	20359	AK143229	Sema6b	Mus musc	3285.596	1632.726	1213.171
chr4	381546	AK133118	Ccdc24	Mus musc	1730.918	622.5275	860.3075
chr2	241846	AK035040	Lsm14b	Mus musc	7659.616	3340.994	3807.515
chr17	328778	BC118018	Rab26	Mus musc	203.5955	61.356	101.2135
chr4	72225	AK005651	1700003M	Mus musc	14.7491	7.2159	7.3377
chr4	18786	AK085027	Plaa	Mus musc	694.8835	244.6195	345.7251
chr6	70727	AK158756	Rasgef1a	Mus musc	342.6707	170.5415	126.5815
chr13	71991	AK082109	Ercc8	Mus musc	154.0373	37.1726	76.6816
chr14	219181	AK129178	Akap11	Mus musc	3030.664	1168.761	1508.884
chr1	240726	BC117944	Slco5a1	Mus musc	71.4416	13.3782	35.5713
chrX	108012	AK167690	Ap1s2	Mus musc	5268.408	1415.992	2592.409
chr14	1E+08	XM_00147	Gm3597	PREDICT	606.5955	302.0915	113.5935
chr13	16563	BC006803	Kif2a	Mus musc	6000.068	2792.76	2989.288
chr18	574402	BC070439	Gpr17	Mus musc	1268.942	372.2915	632.2595
chr3	20360	BC051979	Sema6c	Mus musc	1868.36	645.0635	930.9955
chr2	77767	BC089515	Ernm	Mus musc	174.9675	67.9417	87.2195
chr1	269120	AK153750	Optc	Mus musc	479.7393	78.9295	85.9366
chr6	320405	AK046596	Cadps2	Mus musc	195.2069	68.8337	97.3155
chr5	17165	AK137657	Mapkapk5	Mus musc	247.0875	91.0452	121.3515
chr12	74521	BC113754	Ppp4r4	Mus musc	367.2846	130.8015	183.4595
chrX	245671	BC070442	Klf8	Mus musc	545.8595	230.2275	272.7135
chr4	N/A	NM_00108	N/A	Mus musc	6807.75	2010.866	2423.201
chr13	214189	BC016093	Scgn	Mus musc	110.598	55.278	25.6441

Down-expressed at E15 versus (E18, E19, Ac

chr3	14246	XM_48527	Flg	PREDICT	27.4905	17705.65	17019.2
chr3	67127	BC146002	Lce1a1	Mus musc	35.0188	14958.26	17515.99
chr12	68054	BC062143	Serpina12	Mus musc	26.6098	10916.71	11532.3
chr3	66533	XM_00147	2310050C	PREDICT	17.8017	7194.534	6441.126
chr7	233199	BC029762	Mybpc2	Mus musc	34.2484	10762.36	14717.9
chr3	66203	BC109182	Lce1m	Mus musc	25.2967	9104.726	7046.38
chr3	66203	BC109181	Lce1m	Mus musc	41.4074	11678.57	10524.32
chr11	53617	BC100542	Krt35	Mus musc	11.2419	2999.51	2605.538
chr3	68720	BC132596	Lce1b	Mus musc	23.7706	5440.268	5963.228
chr7	13108	BC058222	Cyp2g1	Mus musc	7.6881	1965.054	1743.392
chr7	23993	BC027823	Klk7	Mus musc	52.7008	11385.22	12453.54

chr3	545547	XM_62232	Lce1j	PREDICT	25.5896	6549.318	6287.486
chr17	386463	BC055373	Cdsn	Mus musc	129.0491	25530.47	29103.27
chr3	74175	BC060280	Crct1	Mus musc	76.9875	12024.54	13226.36
chr19	70166	AK008974	Lipn	Mus musc	9.7227	1609.573	1702.754
chr11	70810	BC018391	Krt25	Mus musc	79.9675	12445.75	12095.91
chr13	105349	BC034259	Akr1c18	Mus musc	9.0679	2635.536	1314.208
chr15	56735	BC125346	Krt71	Mus musc	71.6296	9962.04	10798.88
chr10	15109	BC057637	Hal	Mus musc	59.0289	10937.66	11198.89
chr19	12686	BC016468	Elovl3	Mus musc	9.7873	2102.918	1312.474
chr12	68775	AK004157	Atp6v1c2	Mus musc	21.2356	2751.472	2800.357
chr4	639781	NM_00110	Skint1	Mus musc	7.4678	1245.647	964.9535
chr15	223917	BC019155	Krt79	Mus musc	129.7055	16939.68	16681.18
chr15	223917	BC031593	Krt79	Mus musc	143.0371	16400.05	16141.61
chr6	14311	M61737	Cidec	M.musculu	72.558	15714.02	7993.874
chr7	244202	BC113194	Nlrp10	Mus musc	20.2153	2165.686	2155.718
chr11	70843	AB288231	Krt28	Mus musc	42.9026	4200.578	5731.832
chr3	68720	BC146599	Lce1b	Synthetic	137.3363	13347.28	12640.53
chr2	74176	BC116266	Tgm5	Mus musc	43.0273	4175.748	3942.744
chr6	14311	BC099676	Cidec	Mus musc	74.7375	14954.98	6358.876
chr2	76747	BC116916	Dapl1	Mus musc	66.5539	5540.19	5690.754
chr3	69611	BC145864	Lce1d	Mus musc	15.9045	5652.723	6157.414
chr7	243979	BC107390	Mrgprb2	Mus musc	5.4384	405.8954	783.6436
chr2	215257	BC116227	Il1f9	Mus musc	38.6743	3811.538	3371.176
chr7	13107	BC011089	Cyp2f2	Mus musc	11.0956	799.0135	800.6823
chr3	66195	BC146004	Lce1g	Mus musc	21.1915	8200.476	8411.48
chr8	57264	BC051196	Retn	Mus musc	60.401	7859.552	4206.502
chr5	243083	BC132629	Tmprss11f	Mus musc	14.6812	1011.816	1142.626
chr5	243262	BC116433	Oas1f	Mus musc	19.942	1319.094	1294.974
chr15	223915	BC067067	Krt73	Mus musc	193.4915	12537.69	12536.09
chr2	68678	BC002317	Smtnl1	Mus musc	24.5494	1635.156	2070.26
chr4	195564	NM_00110	Skint3	Mus musc	10.5161	842.7995	655.4335
chr12	N/A	BC003810	N/A	Mus musc	20.8633	1604.622	1285.632
chr3	635737	XM_00147	Gm7165	PREDICT	16.102	1152.938	1300.922
chr2	18534	BC037629	Pck1	Mus musc	95.9235	28298.2	5733.374
chr7	103968	BC096685	Plin1	Mus musc	31.0623	6817.424	1826.442
chr12	68775	BC064071	Atp6v1c2	Mus musc	25.229	1474.052	1486.468
chr4	14621	BC064060	Gjb4	Mus musc	135.0855	7641.972	8422.14
chr11	11685	BC013751	Alox12e	Mus musc	31.0905	1734.576	1701.305
chr2	215257	AK081783	Il1f9	Mus musc	20.8005	1790.753	1444.414
chr3	14246	XM_00100	Flg	PREDICT	564.9195	31615.47	32697.62
chr18	170947	BC104046	Myoz3	Mus musc	14.5778	766.403	948.9245
chr3	14246	AF510860	Flg	Mus musc	160.0598	26274.03	26506.17
chr5	665270	BC119077	Plb1	Mus musc	9.1226	1040.048	1085.868
chr12	68775	BC056636	Atp6v1c2	Mus musc	55.0103	3040.152	2781.828
chr3	N/A	BC018558	N/A	Mus musc	10.1616	1806.67	587.2495
chr3	78382	AK019072	Lce6a	Mus musc	29.5386	2123.394	1794.85
chr7	13088	BC060973	Cyp2b10	Mus musc	14.812	750.9486	706.1575
chr15	53622	AF021836	Krt85	Mus musc	42.4528	2191.81	1996.482
chr4	18784	BC030899	Pla2g5	Mus musc	24.3575	1249.142	1079.604
chr12	271047	BC125418	Serpina3b	Mus musc	32.0534	1912.006	1397.684
chr15	57277	BC111105	Slurp1	Mus musc	10.7973	865.4255	659.7532
chr3	11770	BC002148	Fabp4	Mus musc	52.9407	5352.196	2249.626
chr17	66211	BC037498	Rpl3l	Mus musc	30.9716	1306.95	1434

chr16	207215	AK036385	Fbxo40	Mus musc	15.2663	634.4668	688.9715
chr12	16625	BC116724	Serpina3c	Mus musc	29.8818	1300.488	1227.89
chr7	101744	BC094908	C330005M	Mus musc	46.9646	3334.192	3532.772
chr4	320640	AK162813	Skint4	Mus musc	19.5166	778.3867	848.4135
chr15	67038	BC116397	2010109I0	Mus musc	17.5735	821.6555	700.4975
chr3	67718	BC146598	Lce1h	Synthetic	263.6195	13940.97	10492.38
chr13	74338	BC107411	Slc6a19	Mus musc	19.8877	773.1829	786.9495
chr17	667055	XM_98798	Gm9992	PREDICT	11.1148	647.2449	428.1235
chr4	230622	NM_00110	Skint6	Mus musc	8.9915	345.4369	377.5215
chr7	13090	AK029227	Cyp2b19	Mus musc	54.135	2563.118	2059.462
chr8	11556	BC132000	Adrb3	Mus musc	46.821	3454.44	1738.794
chr11	320864	BC116672	Krt26	Mus musc	7.6864	283.8515	370.5855
chr17	66211	BC085243	Rpl3l	Mus musc	33.1131	1198.448	1709.618
chr1	55990	BC031415	Fmo2	Mus musc	29.0527	1695.475	1922.876
chr15	53622	BC152922	Krt85	Synthetic	52.7895	1862.528	1920.546
chr3	67758	BC019999	Aadac	Mus musc	12.5327	489.5715	441.9015
chr1	55990	AK129026	Fmo2	Mus musc	31.2944	2214.509	2248.424
chr12	328121	XM_00147	Abhd12b	PREDICT	32.4347	1283.062	1206.706
chr8	234564	BC013479	AU018778	Mus musc	5.6185	742.2015	185.6115
chr18	16769	AY170623	Dsg4	Mus musc	6.9228	227.8315	316.5305
chr4	328505	EU099306	Skint7	alt 'C1300	11.6995	382.1769	451.3075
chr11	246049	AK086373	Slc36a2	Mus musc	13.9526	4229.112	445.8795
chr17	66211	BC145876	Rpl3l	Mus musc	37.5846	1185.78	1305.338
chr7	76974	BC051545	1190003J1	Mus musc	34.5525	1051.072	1035.014
chr2	67859	BC117777	2310002J1	Mus musc	84.1509	2529.34	2479.249
chr13	76722	BC061221	Ckmt2	Mus musc	171.2412	5026.768	5662.565
chr4	22178	AK189488	Tyrp1	Mus musc	100.0373	3025.852	2883.535
chr12	328121	XM_00147	Abhd12b	PREDICT	19.6408	633.2889	565.0795
chr5	109979	DQ519369	Art3	alt '493056	37.8949	1736.208	1048.714
chr7	21835	BC009165	Thrsp	Mus musc	81.6914	15709.1	2240.66
chr2	228642	BC034902	BC034902	Mus musc	23.8858	1891.204	693.7915
chr17	12268	BC067409	C4b	Mus musc	29.6986	839.08	785.6435
chr17	12266	BC043338	C3	Mus musc	317.4435	13730.33	8292.214
chr14	59011	BC024660	Myoz1	Mus musc	476.0569	12361.41	13648.69
chr4	N/A	AK209040	N/A	Mus musc	97.3575	2521.49	2907.768
chr5	545798	XM_62025	Gm13843	PREDICT	61.0488	1549.541	2050.242
chrX	70392	BC107257	Asb12	Mus musc	43.0237	1736.56	2185.888
chr10	76757	AK036470	Trdn	Mus musc	13.5604	336.2195	527.8875
chr11	94179	BC003472	Krt23	Mus musc	310.9461	7835.682	7634.866
chr3	631101	XM_00147	Lce1k	PREDICT	12.997	311.5255	372.5111
chr15	71939	AK010208	Apol6	Mus musc	24.7786	1269.203	584.3955
chr3	16447	BC152326	Ivl	Mus musc	404.3255	13053.83	13115.48
chr9	244698	AK132457	Heph11	Mus musc	33.3673	795.2335	772.1115
chr16	207215	AK220373	Fbxo40	Mus musc	48.0061	1116.106	1102.258
chr5	117167	BC006651	Steap4	Mus musc	163.6195	5745.359	3584.303
chr7	69547	BC118925	Nkpd1	Mus musc	40.5928	887.9695	1027.662
chr9	N/A	BC039997	N/A	Mus musc	11.1823	309.6435	244.3975
chr4	22178	AK148441	Tyrp1	Mus musc	207.4944	4476.68	5007.756
chr2	16175	BC003727	Il1a	Mus musc	20.5822	527.2215	558.5961
chr6	93671	BC145793	Cd163	Mus musc	76.8315	1635.588	2001.628
chr3	20197	BC100690	S100a3	Mus musc	195.1695	4500.852	4132.966
chr19	13074	BC064793	Cyp17a1	Mus musc	46.9251	1039.172	989.0895
chr7	69547	XM_13321	Nkpd1	PREDICT	44.6834	938.3055	1192.296

chr7	103968	AK027962	Plin1	Mus musc	7.2522	434.6275	151.2815
chr17	22436	AK160010	Xdh	Mus musc	134.9795	3101.756	2740.636
chr4	230883	XM_14410	Aadacl3	PREDICTI	6.4032	132.4995	129.8435
chr6	93671	DQ058617	Cd163	Mus musc	27.8103	561.2295	779.4433
chr1	14130	AK080885	Fcgr2b	Mus musc	12.6736	253.2455	267.7275
chr11	57911	BC140388	Gsdma	Synthetic	283.1882	6503.125	6234.718
chr14	13655	AK076775	Egr3	Mus musc	268.4855	6067.346	5254.75
chr11	450219	BC153077	Gsdma3	Synthetic	14.8245	289.9295	337.8382
chr2	228785	BC156270	Mylk2	Synthetic	71.4444	1394.524	2215.416
chr16	11450	BC028770	Adipoq	Mus musc	663.4055	23219.83	13473.58
chr1	55990	AF184981	Fmo2	Mus musc	50.3816	2802.96	3198.156
chr4	12353	BC055437	Car6	Mus musc	43.0177	850.137	830.4275
chr5	243083	AK036957	Tmprss11f	Mus musc	8.3548	158.3135	181.7295
chr7	13106	BC013451	Cyp2e1	Mus musc	15.1172	633.0155	286.1995
chr11	16673	X65506	Krt36	M.musculu	10.8966	261.4395	205.5693
chr17	22436	AK171642	Xdh	Mus musc	355.4515	7188.126	6692.286
chr3	99899	BC111882	Ifi44	Mus musc	36.0909	775.4095	759.8475
chr8	17752	BC141870	Mt4	Mus musc	20.6192	380.5935	429.6642
chr17	22436	AK034256	Xdh	Mus musc	244.6195	4790.944	4482.532
chr17	78512	XM_98710	3300005D	PREDICTI	12.4084	233.9195	317.8955
chr6	16846	BC125245	Lep	Mus musc	51.6872	1554.964	939.2573
chr18	72432	BC118011	Spink5	Mus musc	474.4049	8539.196	9586.938
chr2	69677	BC119517	Il1f8	Mus musc	9.2235	845.6335	828.6737
chr4	18405	BC012725	Orm1	Mus musc	213.0155	6557.452	3822.001
chr5	109979	AJ311772	Art3	Mus musc	154.3755	4675.053	3257.923
chr2	170442	BC019406	Bbox1	Mus musc	72.0976	1363.256	1280.53
chr12	71349	AK017349	5430427M	Mus musc	9.1423	189.8614	237.0115
chr5	109979	AJ311774	Art3	Mus musc	249.3347	5235.01	4395.078
chr16	17880	AK137226	Myh11	Mus musc	264.4489	7290.32	10091.42
chr11	N/A	AK052816	N/A	Mus musc	172.0695	7609.098	4834.68
chr15	17068	BC025135	Ly6d	Mus musc	487.0535	8451.524	9438.071
chr1	12372	BC064057	Casq1	Mus musc	691.4335	11922.85	16371.53
chr9	69642	XM_00147	2310046A	PREDICTI	101.3435	2562.326	3173.558
chr2	269275	NM_00111	Acvr1c	Mus musc	22.2217	1288.11	444.8166
chr19	73720	BC061036	Cst6	Mus musc	166.6695	2843.61	2906.142
chr3	12350	AK017227	Car3	Mus musc	283.1415	9333.634	4790.852
chr7	N/A	BC125005	N/A	Mus musc	66.9538	1132.204	1187.42
chr11	16670	BC117553	Krt32	Mus musc	16.4959	309.5615	275.5754
chr8	338521	BC128080	Fa2h	Mus musc	305.1788	5446.212	5077.388
chr8	13479	BC003492	Dpep1	Mus musc	134.8979	2241.943	2395.416
chr8	16956	AK170106	Lpl	Mus musc	18.0595	721.3	407.9515
chr13	107513	AY993942	Ssr1	Mus musc	14.0382	232.4026	299.6595
chr4	18599	BC156171	Padi1	Synthetic	31.8168	525.8155	550.5125
chr3	69117	BC130016	Adh6a	Mus musc	15.6735	258.9479	278.8355
chr8	234677	BC026374	Ces8	Mus musc	13.9106	231.7735	229.4435
chr13	N/A	AK089519	N/A	Mus musc	28.2825	840.2936	760.8013
chr12	319942	BC096642	A530016L2	Mus musc	105.361	4462.342	1847.124
chr2	20612	Z36233	Siglec1	M.musculu	54.7515	959.2615	880.0135
chr5	21388	BC090639	Tbx5	Mus musc	11.3418	181.8115	242.4172
chr3	229562	BC107019	Sprr4	Mus musc	25.7614	455.1755	411.6815
chr3	99899	BC112402	Ifi44	Mus musc	45.3441	1167.232	1070.76
chr11	52685	AB243064	Cd300lg	Mus musc	103.6795	3285.508	2049.942
chr8	13479	AK002380	Dpep1	Mus musc	307.3535	4858.638	5862.668

chr9	74770	AK157924	Hhatl	Mus musc	146.2895	2305.614	3255.456
chr4	18784	AK090021	Pla2g5	Mus musc	47.9856	761.8354	756.0155
chr6	N/A	AK040061	N/A	Mus musc	6.659	125.1458	104.6508
chr5	109979	AJ311771	Art3	Mus musc	301.6915	7310.434	5658.646
chr5	109979	DQ519370	Art3	alt '493056	45.3819	704.0055	760.3389
chr3	71790	NM_00108	Anxa9	Mus musc	204.3835	3169.767	3232.732
chr5	109979	AK016257	Art3	Mus musc	240.4721	5569.876	4781.36
chr6	667277	AF459018	C1rb	Mus musc	244.8875	3788.332	4034.022
chr14	13655	BC103568	Egr3	Mus musc	647.2175	11929.51	11479.85
chr4	18405	AK138985	Orm1	Mus musc	76.2117	2031.782	1166.323
chr10	70503	BC027312	Ddo	Mus musc	32.8664	2748.648	701.8777
chr9	244698	XM_14681	Heph11	PREDICT	43.1042	655.6435	658.9355
chr3	229665	BC156060	Ampd1	Synthetic	108.6075	1651.737	2453.546
chr14	56643	BC116248	Slc15a1	Mus musc	44.4196	671.8465	698.0755
chrX	56078	BC034413	Car5b	Mus musc	41.9266	1351.363	630.8695
chr10	103142	AK132181	Rdh9	Mus musc	234.4126	3524.064	3680.288
chr6	140491	BC109007	Ppp1r3a	Mus musc	88.6101	1321.802	1976.77
chr8	76294	BC120851	Asb5	Mus musc	125.1959	1852	2484.072
chr10	19683	BC089612	Rdh16	Mus musc	129.4839	2224.299	2395.632
chr15	19293	X59382	Pvalb	M.musculu	35.6227	525.8855	658.3848
chr2	246747	BC054059	BC054059	Mus musc	48.7806	3716.176	718.8655
chr8	16956	AK017272	Lpl	Mus musc	8.1355	546.3555	501.6915
chr11	246049	BC044800	Slc36a2	Mus musc	22.0659	3096.027	319.8015
chr4	639774	EF494904	Skint8	Mus musc	32.2792	503.0075	465.0355
chr15	110454	BC002070	Ly6a	Mus musc	515.6735	8039.122	7409.068
chr7	101533	BC109326	Klk9	Mus musc	128.2395	4911.077	5095.24
chr11	73988	XM_00147	4930438A	PREDICT	238.1799	3833.448	3796.078
chr13	76469	AJ511265	Cmya5	Mus musc	417.4235	5963.574	8506.257
chr4	639781	EU099298	Skint1	alt 'OTTM	14.5084	332.9715	205.9775
chr6	71791	BC061206	Cpa4	Mus musc	195.1355	2805.244	3573.273
chr2	209232	BC019734	Wfdc5	Mus musc	200.8035	3941.166	4173.056
chr11	17312	AK140762	Mgl1	Mus musc	13.1628	184.1615	291.1735
chr3	80797	BC008147	C1ca2	Mus musc	353.9853	5086.67	4949.584
chr19	11474	BC111890	Actn3	Mus musc	290.1759	4030.048	5174.476
chr10	13982	AK041525	Esr1	Mus musc	33.5993	466.3871	529.7255
chr9	56318	AK020693	Acpp	Mus musc	164.4179	2278.785	2287.24
chr5	12223	BC119152	Btc	Mus musc	201.9995	2793.182	2832.096
chr17	224796	BC064037	Clic5	Mus musc	122.3484	2035.196	1678.204
chr7	20278	BC021338	Scnn1g	Mus musc	10.8839	237.0295	325.8695
chr4	14622	BC011148	Gjb5	Mus musc	564.756	7656.708	7548.709
chr5	381680	BC055004	BC055004	Mus musc	9.2399	184.0995	123.0435
chr1	N/A	AK179958	N/A	Mus musc	197.0975	11105.93	2617.96
chr16	17880	D85923	Myh11	Mus musc	183.0695	4094.252	5906.955
chr4	328505	AK132639	Skint7	Mus musc	7.7239	102.2395	154.5868
chr10	13982	M38651	Esr1	Mouse est	125.6104	1758.9	1661.832
chr4	639774	NM_00110	Skint8	Mus musc	31.1214	411.6976	453.6995
chr9	73748	BC052327	Gad11	Mus musc	89.2472	4175.756	4404.48
chr3	384997	BC120840	Pglyrp4	Mus musc	25.2311	331.6295	383.4335
chr3	19885	BC014804	Rorc	Mus musc	75.145	1351.58	974.5832
chr11	12409	BC010758	Cbr2	Mus musc	263.0645	3376.552	3966.228
chr7	21953	BC028515	Tnni2	Mus musc	2331.22	30561.45	34252.77
chr7	19144	AB015206	Klk6	Mus musc	41.0672	525.4795	531.3011
chr9	69642	BC089626	2310046A	Mus musc	280.4355	6421.99	8161.292



chr19	66961	AK197973	Neat1	Mus musc	754.4235	13352.77	9625.578
chr1	11761	BC026132	Aox1	Mus musc	23.3692	505.0475	297.0431
chr2	74176	AK079431	Tgm5	Mus musc	19.4103	269.2075	246.5935
chr8	11606	BC156111	Agt	Synthetic	75.5007	5310.672	4097.444
chr16	74488	BC050245	Lrrc15	Mus musc	75.3495	951.6795	1966.036
chr19	11474	AK134757	Actn3	Mus musc	143.5535	1812.09	2434.024
chr11	16673	BC141597	Krt36	Synthetic	12.6662	198.1255	159.8695
chr14	54159	BC119506	Ear5	Mus musc	24.2264	346.0195	305.6635
chr5	75581	BC089576	Yipf7	Mus musc	74.6667	939.8515	1185.844
chr1	67426	BC030937	Cabc1	Mus musc	637.5675	27110.88	7968.419
chr2	18534	AK080261	Pck1	Mus musc	14.6232	1396.526	185.3999
chr9	69642	AK009836	2310046A0	Mus musc	279.4535	6306.992	9120.686
chr3	12722	BC010260	Clca1	Mus musc	444.1955	6159.51	5526.248
chr13	105387	BC013482	Akr1c14	Mus musc	125.0094	2060.871	1552.549
chr12	546546	BC132647	Serpina3h	Mus musc	268.9975	3913.612	3337.42
chr3	12722	BC132342	Clca1	Mus musc	74.3489	918.6495	953.461
chr17	16005	BC129875	Igfals	Mus musc	28.7454	681.75	355.0195
chr6	667277	XM_00100	C1rb	PREDICT	239.6238	3087.238	2957.653
chr2	241452	BC118029	Dhrs9	Mus musc	14.0109	899.5133	171.5255
chr16	22061	AK048623	Trp63	Mus musc	26.251	321.1415	323.7495
chr15	110454	J03636	Ly6a	Mouse T-c	511.3175	6729.172	6244.426
chr16	625123	XM_88966	Gm6557	PREDICT	125.9999	1636.974	1535.588
chr11	52685	BC119315	Cd300lg	Mus musc	207.4915	8076.386	4852.234
chr6	78910	BC050794	Asb15	Mus musc	18.1039	219.8835	297.7875
chr15	12895	AK146851	Cpt1b	Mus musc	570.6115	22651.43	6902.296
chr10	26464	BC111521	Vnn3	Mus musc	18.0483	377.1755	217.0195
chr7	641361	BC145686	2310033E0	Mus musc	57.2914	687.2015	852.6815
chr15	74127	BC119366	Krt80	Mus musc	638.191	7646.608	9595.766
chr5	170741	BC145880	Pilrb1	Mus musc	18.9321	225.4995	351.7175
chr15	17067	AK143577	Ly6c1	Mus musc	109.7975	1725.276	1306.751
chr3	99681	XM_00100	Tchh	PREDICT	625.6855	7430.464	9483.682
chr17	68468	AJ315547	Ly6g6c	Mus musc	64.1206	906.0975	758.4895
chr12	319942	BC026527	A530016L2	Mus musc	95.8995	3939.254	1530.68
chr3	229933	BC096379	Clca5	Mus musc	93.3362	1122.186	1101.184
chr15	14555	AK220445	Gpd1	Mus musc	837.1795	22894.04	11075.31
chr12	76933	BC100588	Ifi2712a	Mus musc	29.0513	369.3855	341.221
chr15	22337	BC006716	Vdr	Mus musc	557.2445	6514.192	7077.628
chr2	228765	BC005556	Sdcbp2	Mus musc	136.8097	1652.918	1598.87
chr16	212998	BC016579	BC016579	Mus musc	15.9702	186.0575	258.3815
chr1	15950	AK041232	Ifi203	Mus musc	19.7109	272.2275	229.5995
chr8	16956	BC003305	Lpl	Mus musc	743.1575	10591.47	8645.892
chr8	76294	BC108405	Asb5	Mus musc	178.5405	2076.961	2922.994
chr8	104158	BC019198	Ces3	Mus musc	71.7376	12413.47	833.9215
chr7	19144	AB008928	Kik6	Mus musc	30.7049	365.6235	356.3687
chr8	11556	S53290	Adrb3	beta 3-adr	109.4321	2887.076	1267.286
chr9	258364	BC119350	Olfir976	Mus musc	6.659	166.5879	76.9595
chr15	1E+08	NM_00109	Ly6c2	Mus musc	100.1355	1437.801	1156.11
chr4	639774	XM_00147	Skint8	PREDICT	12.0085	138.5895	246.9575
chrX	56078	AK047984	Car5b	Mus musc	170.5715	4464.151	2514.32
chr1	67426	AJ278735	Cabc1	Mus musc	707.5675	25670.7	8132.348
chr19	19662	BC031809	Rbp4	Mus musc	253.4872	4133.418	3446.383
chr2	241636	BC112420	Tgm6	Mus musc	14.0972	161.0235	206.0475
chr4	29818	BC089584	Hspb7	Mus musc	554.2275	6304.428	7004.49

chr7	244091	BC148388	Fsd2	Synthetic	381.3755	4337.779	5103.896
chr10	76757	AF223417	Trdn	Mus musc	979.8375	11089.99	13665.28
chr7	17364	AK148268	Trpm1	Mus musc	103.0767	1206.286	1160.812
chr4	328505	EF494900	Skint7	Mus musc	38.6136	505.1295	434.8455
chr4	329993	XM_14411	Gm438	PREDICT	8.6835	295.9235	349.7123
chr7	244233	AK088010	Cd163l1	Mus musc	12.3035	194.5315	223.5375
chr3	50874	BC068020	Tmod4	Mus musc	323.0176	3615.184	4654.592
chr11	23801	BC116258	Aloxe3	Mus musc	222.1561	3268.992	3744.664
chr6	50909	BC004637	C1ra	Mus musc	235.1434	2608.771	3025.058
chr3	109245	BC119529	Lrrc39	Mus musc	154.1715	2406.358	1699.127
chr4	13120	AK078882	Cyp4b1	Mus musc	61.8685	857.0495	801.3615
chr7	12869	BC027531	Cox8b	Mus musc	64.4081	5016.289	704.4235
chr15	74127	AK036900	Krt80	Mus musc	15.687	187.2315	170.9873
chr9	73748	AK003937	Gadl1	Mus musc	28.4736	929.6715	994.8135
chr11	68515	BC109329	Myadml2	Mus musc	154.6205	1682.639	2256.926
chr11	17312	BC014811	Mgl1	Mus musc	223.0035	2408.988	4256.659
chr4	230622	XM_14400	Skint6	PREDICT	58.1572	636.9715	627.9295
chr7	244233	AF539744	Cd163l1	alt 'B4303	17.923	196.4675	235.0235
chr7	72383	BC059093	Cnfn	Mus musc	515.3075	6955.528	7001.492
chr17	76905	BC092077	Lrg1	Mus musc	20.8024	1176.05	222.4684
chr2	54450	BC132600	Il1f5	Mus musc	519.1675	7306.694	7801.35
chr11	21822	BC034256	Tgtp	Mus musc	11.1947	127.1935	119.2696
chr10	76757	BC034343	Trdn	Mus musc	952.9575	10146.91	13352.7
chr2	665700	AK083701	Hmcn2	Mus musc	12.7361	135.3395	318.0755
chr14	219132	BC145673	D14Ert66	Mus musc	97.4085	1048.761	1031.468
chr2	14133	BC019180	Fcna	Mus musc	144.5675	1547.708	1518.286
chr9	69642	BC131903	2310046A	Mus musc	272.071	6116.752	8366.764
chr7	N/A	AK216459	N/A	Mus musc	111.1696	1181.843	1366.913
chr19	66961	AK215842	Neat1	Mus musc	1091.726	16813.12	11411.73
chr11	20555	BC052869	Slfn1	Mus musc	46.9869	654.9995	490.7215
chr11	17879	DQ021873	Myh1	alt 'A5300	256.7487	2681.12	2680.578
chr1	15950	AK137616	Ifi203	Mus musc	7.5039	85.5055	77.975
chr8	69142	BC099497	Cd209f	Mus musc	22.1472	300.2315	229.7215
chr1	109019	AK079434	Obfc2a	Mus musc	43.5939	2104.124	847.8955
chr12	N/A	BC119538	N/A	Mus musc	32.2857	394.0515	333.465
chr19	66961	AK148054	Neat1	Mus musc	992.4511	14524.47	10225.1
chr3	17306	BC030038	Sypl2	Mus musc	975.2555	13043.86	16611.83
chr14	78754	BC133711	Galnt12	Mus musc	69.6473	1168.21	716.6682
chr12	20717	X69832	Serpina3m	M.musculu	8.1839	101.8435	84.0884
chr9	73748	XM_13521	Gadl1	PREDICT	71.9306	2158.671	2104.966
chr10	70503	BC006690	Ddo	Mus musc	63.5682	3743.136	1044.984
chr7	N/A	AK215506	N/A	Mus musc	8.788	148.9055	275.9722
chr8	11606	BC019496	Agt	Mus musc	53.3183	2712.052	1961.625
chr2	665700	BC040753	Hmcn2	Mus musc	17.4719	177.5055	349.0875
chr5	246728	BC043667	Oas2	Mus musc	89.6795	911.0595	1018.836
chr5	243084	BC115432	Tmprss11e	Mus musc	16.2548	276.6555	319.6867
chr2	269275	AK142396	Acvr1c	Mus musc	65.002	3153.77	1325.162
chr16	22061	AK138305	Trp63	Mus musc	15.3679	155.456	204.4535
chr5	381680	AK156114	BC055004	Mus musc	9.6239	131.4095	97.3212
chr15	14555	BC019391	Gpd1	Mus musc	1001.776	25978.49	12795.39
chr11	327959	BC146440	Xaf1	Synthetic	30.2144	491.9298	303.6515
chr5	231510	AK138410	Agpat9	Mus musc	29.9848	636.1415	498.4484
chr7	17364	AK202089	Trpm1	Mus musc	129.7369	1458.17	1297.08



chr6	50908	BC111880	C1s	Mus musc	638.5755	6377.058	6836.304
chr12	104943	BC019466	Fam110c	Mus musc	25.2275	344.0155	454.2395
chr16	17857	AK076430	Mx1	Mus musc	28.671	298.4155	285.7978
chr11	11686	BC113149	Alox12b	Mus musc	517.6238	11091.28	12264.88
chr10	237310	BC124998	Il22ra2	Mus musc	13.1025	129.8315	163.1775
chr1	20684	BC069183	Sp100	Mus musc	48.7114	564.1555	481.6515
chr7	320878	AK161075	Mical2	Mus musc	17.5141	172.5735	218.4035
chr16	77037	BC027543	Mrap	Mus musc	60.2026	4906.2	1136.278
chr13	14120	BC012720	Fbp2	Mus musc	118.8747	1162.235	1694.674
chr8	66733	BC043936	Kcng4	Mus musc	37.4315	531.3875	476.4855
chr8	72267	BC080783	Lrrc8e	Mus musc	142.8315	1421.444	1390.092
chr5	74376	AK085912	Myo18b	Mus musc	148.5787	1486.052	1662.534
chr19	107221	BC053698	Gpr120	Mus musc	21.6488	2037.34	407.8395
chr4	230612	AK029158	Slc5a9	Mus musc	75.0675	891.7322	877.8275
chr2	58203	BC020033	Zbp1	Mus musc	63.0443	915.6155	609.1455
chr8	234311	AK036495	Ddx60	Mus musc	42.4838	466.0131	410.0185
chr14	219132	BC030186	D14Erd66	Mus musc	29.4062	283.5911	306.7835
chr7	54123	AK159883	Irf7	Mus musc	137.0655	1570.852	1319.368
chr5	231805	BC115565	Pilra	Mus musc	22.9278	328.8065	388.6235
chr5	20657	BC010975	Sod3	Mus musc	136.8002	2366.762	1312.95
chr6	74589	AK016973	Kbtbd12	Mus musc	19.4876	187.4575	272.8689
chr13	50709	BC089600	Hist1h1e	Mus musc	59.2035	694.0515	810.5564
chr19	19309	BC012961	Pygm	Mus musc	1961.898	18743.32	22555.19
chr3	19885	AF163668	Rorc	Mus musc	153.9118	2057.807	1464.882
chr5	246728	BC118538	Oas2	Mus musc	48.4474	459.1372	564.4494
chr2	13661	BC006789	Ehf	Mus musc	14.3789	136.2355	158.6355
chr15	74127	AK004811	Krt80	Mus musc	1461.165	13818.25	14191.48
chrX	68854	BC064047	Asb11	Mus musc	19.8661	186.9775	346.0107
chr7	17178	BC051033	Fxyd3	Mus musc	59.065	552.9915	638.735
chr15	268807	BC132483	Klhl38	Mus musc	79.5555	742.7733	803.1995
chrX	24102	BC104384	Trex2	Mus musc	100.3015	2659.072	2637.001
chr5	246728	AK049218	Oas2	Mus musc	84.2935	785.7635	872.9735
chr2	22138	AK142833	Ttn	Mus musc	374.586	3478.26	4482.824
chr2	108115	AK033598	Slco4a1	Mus musc	151.3595	1463.194	1866.11
chr8	71903	BC117742	2310038E	Mus musc	57.3037	3381.722	2945.006
chr1	226695	BC040425	Ifi205	Mus musc	15.9832	242.3195	147.4656
chr7	233079	AF545043	Ffar2	Mus musc	38.7619	916.4155	542.2315
chr5	246730	BC057878	Oas1a	Mus musc	36.817	346.1175	337.2095
chr7	17364	AK149290	Trpm1	Mus musc	62.4626	571.9455	659.7627
chr7	56538	BC148310	Klk11	Mus musc	329.27	3285.798	3165.57
chr7	56538	AB016227	Klk11	Mus musc	795.3489	7262.63	7852.736
chr3	1E+08	XM_00147	Gm3914	PREDICT	10.5373	102.821	96.0975
chr5	18682	BC055102	Phkg1	Mus musc	149.6528	1363.59	1541.622
chr2	56398	AK075723	1500003O	Mus musc	29.2634	281.0035	265.7755
chr7	20277	BC131969	Scnn1b	Mus musc	83.4705	1142.251	1377.396
chr13	N/A	BC054086	N/A	Mus musc	17.1007	165.0536	154.8915
chr11	N/A	AK144695	N/A	Mus musc	110.4537	1105.078	1314.464
chr4	546849	NM_00108	Gm13178	Mus musc	8.8041	79.3955	99.4375
chr7	16858	BC116838	Lgals7	Mus musc	1186.258	10696.66	13124.78
chr11	217169	AK039855	Tns4	Mus musc	276.3251	2487.902	2731.351
chr16	67775	BC024872	Rtp4	Mus musc	209.1955	2120.828	1878.436
chr7	56538	BC115518	Klk11	Mus musc	278.9115	3275.846	2848.012
chr8	234311	BC043663	Ddx60	Mus musc	45.1728	469.2575	404.1115

chr14	27389	BC100421	Dusp13	Mus musc	74.526	666.6255	805.0515
chr11	327959	AK046736	Xaf1	Mus musc	239.3475	2369.41	2136.734
chr10	13982	AK039911	Esr1	Mus musc	31.1854	277.9221	409.4616
chr1	16782	AK147105	Lamc2	Mus musc	20.108	319.9535	283.6693
chr5	23960	BC018470	Oas1g	Mus musc	37.534	377.1395	333.6254
chr11	68515	BC091000	Myadml2	Mus musc	195.5049	1731.59	2632.122
chr5	13113	BC046592	Cyp3a13	Mus musc	10.8626	96.1335	136.6835
chr7	12715	BC132424	Ckm	Mus musc	3497.1	30918.16	32974.67
chr2	54450	AK014576	Il1f5	Mus musc	275.1762	5336.522	5384.06
chr4	63954	BC028432	Rbp7	Mus musc	10.8689	523.0515	297.7875
chr11	68460	BC039565	Dhrs7c	Mus musc	419.7418	4336.048	5938.262
chr1	12372	AK049865	Casq1	Mus musc	1306.742	11464.14	12753.44
chr13	74145	AK171273	F13a1	Mus musc	38.9794	338.7856	444.7075
chr6	53857	BC017631	Tuba8	Mus musc	568.1695	4937.938	5014.305
chr16	17880	BC026142	Myh11	Mus musc	54.5403	473.7533	753.2815
chr1	15950	AK136391	Ifi203	Mus musc	67.7178	711.6015	587.7115
chr17	78512	AK019455	3300005D	Mus musc	10.492	90.7335	116.5539
chr18	58916	BC064052	Myot	Mus musc	1244.812	10845.85	11184.56
chr18	60440	BC004649	ligp1	Mus musc	76.5332	1128.268	659.5895
chr7	12869	BC086930	Cox8b	Mus musc	96.3577	4957.866	828.1117
chr13	N/A	X04315	N/A	Mouse no	19.017	163.3755	210.9815
chr10	76757	AF223415	Trdn	Mus musc	1280.723	10990.46	12634.75
chr7	266815	BC110547	Mill1	Mus musc	156.6155	1343.012	1582.308
chr4	69671	AK009779	Tmem52	Mus musc	81.4719	698.3135	849.8435
chr10	69678	AK009897	2310050B	Mus musc	65.8999	563.7162	764.3375
chr17	386454	NM_00109	Rnf39	Mus musc	149.4692	1423.01	1277.866
chr4	65973	AF223414	Asph	Mus musc	470.7062	4020.296	5548.276
chr15	69574	BC024580	Cmb1	Mus musc	203.6701	4025.53	1734.896
chr6	27273	BC026134	Pdk4	Mus musc	93.6055	5997.904	796.8755
chr17	22436	AK164764	Xdh	Mus musc	7.9976	68.0471	68.6477
chr1	226999	BC104737	Slc9a2	Mus musc	48.1343	553.3629	710.4275
chr9	234911	AK155813	Mmp27	Mus musc	23.8609	202.0735	546.1895
chr2	22138	AK139762	Ttn	Mus musc	526.1635	4441.188	7963.792
chr7	11812	NM_00111	Apoc1	Mus musc	203.4195	3034.398	1708.482
chr11	21393	BC027631	Tcap	Mus musc	116.4334	977.2855	1074.658
chr9	214523	AK078890	Tmprss4	Mus musc	67.6118	630.7815	566.8975
chr2	16169	AK041949	Il15ra	Mus musc	48.1881	1035.262	402.1055
chr10	1E+08	XM_00147	Gm3233	PREDICT	8.7304	72.4796	79.6975
chr7	17364	BC082560	Trpm1	Mus musc	97.7855	810.5805	963.1475
chr3	545541	XM_61992	Gm5849	PREDICT	11.8854	98.2435	108.1875
chr18	60440	AJ007971	ligp1	Mus musc	109.1722	1461.934	902.0755
chr6	50908	NM_00109	C1s	Mus musc	842.9735	6962.936	7371.966
chr8	74568	AK018636	Mkl1	Mus musc	35.869	296.0919	359.8146
chr1	17700	BC103678	Mstn	Mus musc	585.6635	4833.512	7595.322
chr1	14130	BC038070	Fcgr2b	Mus musc	156.3315	1288.31	1457.4
chr12	52668	BC125301	Ifi2711	Mus musc	515.7095	11795.82	4249.084
chr2	16181	AK171037	Il1rn	Mus musc	120.0195	984.651	1075.19
chr5	667386	XM_99026	Gm577	PREDICT	27.7765	306.8975	227.1273
chr13	432720	BC087964	Akr1c19	Mus musc	13.5005	197.7595	190.1535
chr7	18431	BC119220	Oca2	Mus musc	17.335	154.2595	141.5403
chr1	20684	CT010199	Sp100	Mus musc	282.5775	2304.128	2395.854
chr17	12268	BC039141	C4b	Mus musc	75.5995	615.9333	630.2615
chr9	214425	BC080666	Cilp	Mus musc	880.0775	7112.568	8606.188



chr1	20183	S62952	Rxrg	alt 'Nr2b3'	32.6606	1002.696	408.4695
chr6	93677	BC156701	Lmod2	Synthetic	601.4575	5620.017	7409.329
chr7	17364	BC085168	Trpm1	Mus musc	103.0979	877.0592	827.2775
chr4	17841	BC012259	Mup2	Mus musc	168.7275	3905.181	1351.802
chr11	13393	BC058852	Dlx3	Mus musc	891.3784	7137.75	8296.57
chr2	17996	U58109	Neb	Mus musc	707.4795	5656.394	9460.732
chr11	217169	BC055820	Tns4	Mus musc	279.4935	2380.656	2231.722
chr5	231510	BC145669	Agpat9	Mus musc	177.0135	3058.004	2230.13
chr15	71939	BC113126	Apol6	Mus musc	34.145	563.9795	272.1415
chr3	229595	BC117925	Adamts14	Mus musc	739.8995	5895.23	6625.516
chr5	213948	BC156363	Atg9b	Synthetic	212.9735	1709.254	1690.272
chr17	57390	BC110561	Psors1c2	Mus musc	85.9314	681.8855	724.9609
chr11	17312	AK170779	Mgl1	Mus musc	46.232	365.2035	705.9718
chr13	N/A	XM_00147	N/A	PREDICT	20.8211	164.4475	174.7615
chr7	17364	AK196832	Trpm1	Mus musc	13.5164	106.6515	135.4815
chr14	16854	X16834	Lgals3	Mouse mF	819.7955	7374.305	6456.632
chr18	66255	AK141935	1810005K	Mus musc	49.5391	389.6895	402.0455
chr11	71888	BC029257	Krt33a	Mus musc	17.6436	138.7215	160.8355
chr4	17840	BC012221	Mup1	Mus musc	81.5375	1936.666	638.5115
chr7	11937	BC036292	Atp2a1	Mus musc	2115.11	16556.74	20093.2
chr11	17879	BC108329	Myh1	Mus musc	765.4195	5942.11	7666.851
chr14	16854	AK170803	Lgals3	Mus musc	1040.872	8340.918	8046.322
chr18	11555	BC032883	Adrb2	Mus musc	309.1075	2707.694	2739.476
chr10	14727	BC152792	Gp49a	Synthetic	194.5655	1497.184	1614.49
chr8	76527	BC016254	Il34	Mus musc	555.8795	4276.552	4476.982
chr12	52668	AK187394	Ifi2711	Mus musc	334.4096	8630.242	2570.56
chrX	68854	AK002412	Asb11	Mus musc	41.3506	317.6855	396.7915
chr6	71660	BC038914	Rarres2	Mus musc	197.0775	1511.47	1582.884
chr4	69743	XM_00147	Cas21	PREDICT	91.9216	737.5755	703.7735
chr13	218624	BC066164	Il31ra	Mus musc	54.6806	418.3055	626.0355
chr3	23831	BC046995	Car14	Mus musc	184.3055	1746.337	1407.818
chr6	50908	BC018319	C1s	Mus musc	946.3975	7678.722	7218.444
chr10	13654	BC009093	Egr2	Mus musc	277.0415	2176.587	2110.962
chr11	N/A	AK217856	N/A	Mus musc	180.9352	1549.282	1376.59
chr19	226251	AK165766	Ablim1	Mus musc	20.3643	154.8218	168.4936
chr12	1E+08	XM_00147	Ahnak2	PREDICT	136.7075	1100.13	1037.23
chr7	21957	L48990	Tnnt3	Mus musc	3949.222	30196.56	32899.98
chr11	327978	AK171886	Sifn5	Mus musc	61.1907	612.1895	461.0895
chr3	55932	BC019195	Gbp3	Mus musc	86.6395	913.5015	652.5355
chr11	56405	AK009744	Dusp14	Mus musc	9.4718	113.0935	125.1282
chr17	74116	BC106088	Pi16	Mus musc	364.0581	4104.724	2737.184
chr8	74568	BC023755	Mkl1	Mus musc	150.2235	1383.542	1342.39
chr14	15460	BC049182	Hr	Mus musc	458.4635	3436.626	3664.039
chr18	66255	AK019003	1810005K	Mus musc	107.84	816.0695	806.9615
chr10	14727	AK089366	Gp49a	Mus musc	42.9406	320.3815	385.8495
chr7	20887	L02331	Sult1a1	Mouse ph	274.2676	3823.942	2038.8
chr1	20724	BC005434	Serpib5	Mus musc	538.3615	4001.072	4780.03
chr3	69206	AK140363	201001611	Mus musc	61.2395	485.7835	454.9855
chr8	69142	AK007638	Cd209f	Mus musc	33.8273	336.3954	249.7478
chr18	12683	BC096649	Cidea	Mus musc	266.5275	28727.78	1961.436
chr15	223513	BC119198	Abra	Mus musc	122.8095	900.6635	1370.268
chr12	52668	BC128276	Ifi2711	Mus musc	481.9483	11021.99	3534.118
chr6	387353	BC126974	Tas2r126	Mus musc	12.4226	100.2335	97.2269

chr4	17840	BC037152	Mup1	Mus musc	253.7575	5374.197	1858.864
chr2	108115	BC033602	Slco4a1	Mus musc	45.5577	367.4655	368.7618
chr11	237858	BC119801	Tusc5	Mus musc	28.5856	1114.554	238.9635
chr6	78781	AK167137	Zc3hav1	Mus musc	28.4743	281.8781	207.9635
chr1	20684	AK080004	Sp100	Mus musc	73.5413	679.1927	536.0669
chr3	66371	BC117538	Chmp4c	Mus musc	171.7508	1248.242	1376.158
chr10	14727	AK155580	Gp49a	Mus musc	48.1343	403.7735	349.7615
chr15	19116	BC096586	Prlr	Mus musc	160.7295	1378.42	1167.219
chrX	434769	BC132474	Rhox10	Mus musc	8.8581	64.9008	90.3115
chr11	216864	AK085751	Mgl2	Mus musc	58.1323	421.4615	525.5952
chr13	14121	BC011480	Fbp1	Mus musc	66.8338	483.5079	492.3975
chr3	229595	AK155481	Adamtsl4	Mus musc	353.3692	2553.892	2755.21
chr12	1E+08	AK138503	Ahnak2	Mus musc	212.5375	1892.357	1530.592
chr11	13808	X70182	Eno3	M.musculu	390.0709	2794.344	2959.966
chr7	677289	AK082720	Gm14492	Mus musc	148.8702	1065.904	1111.192
chr7	68616	BC002172	Gdpd3	Mus musc	530.7755	3911.862	4006.923
chr9	214523	BC021368	Tmprss4	Mus musc	1345.576	12505.06	14564.94
chr1	170725	AB061519	Capn8	Mus musc	15.0176	107.3635	175.0953
chr9	235435	BC030631	Lctl	Mus musc	18.5462	3211.282	239.4975
chr10	14728	AK170368	Lilrb4	Mus musc	273.2235	1949.156	2063.69
chr9	76509	BC017624	1600029D	Mus musc	265.2935	1892.102	1995.196
chr11	17884	AK138608	Myh4	Mus musc	178.8115	1275.199	1590.623
chr18	240328	AK156308	F830016B	Mus musc	94.7935	675.5915	942.0855
chr18	58916	BC016214	Myot	Mus musc	1454.556	10364.75	13517.22
chr2	21925	BC024390	Tnnc2	Mus musc	3721.858	26509.73	30770.73
chr13	12763	AK145110	Cmah	Mus musc	440.7255	3354.946	3138.1
chr4	13120	BC008996	Cyp4b1	Mus musc	402.4775	3324.57	2845.55
chr1	15950	AK040214	Ifi203	Mus musc	198.3015	1858.954	1399.156
chr12	22095	BC028754	Tshr	Mus musc	19.2443	235.5655	135.7235
chr9	244923	BC118027	Klhl31	Mus musc	354.0604	2495.028	4048.322
chr17	15042	BC156693	H2-T24	Synthetic	23.7366	185.9855	167.1387
chr11	19285	AK169463	Ptrf	Mus musc	120.8786	860.8299	850.2661
chr7	1E+08	XM_00147	Gm4265	PREDICTI	15.6427	122.3735	109.9891
chr7	54123	AK002830	Irf7	Mus musc	172.4463	1434.718	1210.423
chr4	18601	AK220522	Padi3	Mus musc	100.8355	707.7735	713.9475
chr13	12763	AB061276	Cmah	alt '-'	237.9319	1791.477	1668.933
chr7	13009	BC061131	Csrp3	Mus musc	306.4195	2146.429	2390.007
chr9	235587	AK044223	Parp3	Mus musc	158.5675	1259.235	1110.056
chr5	58805	BC064053	Mlxipl	Mus musc	51.3715	1612.828	359.3495
chr16	17857	NM_01084	Mx1	Mus musc	35.9862	292.8635	251.1715
chr8	628856	BC025186	Gm9909	Mus musc	74.8095	645.6595	521.7615
chr9	N/A	BC006958	N/A	Mus musc	285.004	2155.536	1982.722
chr11	12808	AK049730	Cobl	Mus musc	103.7675	820.0695	719.2815
chr15	106059	BC053978	A430088P	Mus musc	11.7249	81.0155	101.7275
chr1	20684	AK146054	Sp100	Mus musc	68.8177	523.5155	474.4315
chr1	20724	AK145220	Serpib5	Mus musc	444.0775	3153.492	3057.28
chr8	319446	AK171196	Dpep2	Mus musc	12.4342	85.5665	103.8534
chr4	1E+08	AK013972	Mup11	Mus musc	338.5215	5914.48	2322.756
chr19	20249	BC114417	Scd1	Mus musc	1809.494	19942.5	12413.47
chr7	21957	BC003747	Tnnt3	Mus musc	4024.092	30361.26	30358.29
chr1	15951	BC010546	Ifi204	Mus musc	93.2555	638.7073	755.2055
chr1	94227	BC116705	Pi15	Mus musc	54.1852	762.2075	809.3575
chr3	67547	AK085740	Slc39a8	Mus musc	65.7777	449.5938	465.8915



chr3	55932	U44731	Gbp3	Mus musc	104.8515	996.6062	715.8775
chr11	103655	BC026948	Sec14I4	Mus musc	22.7577	380.9275	155.1475
chr11	17898	BC061100	Myl7	Mus musc	35.2206	239.9524	343.2215
chr10	71912	BC156699	Jsrp1	Synthetic	561.1435	3819.53	4617.752
chr3	669780	XM_00147	LOC66978	PREDICT	11.4707	77.97	98.9035
chr1	16780	AK155769	Lamb3	Mus musc	516.2835	3657.638	3502.285
chr1	13346	BC031760	Des	Mus musc	1527.04	10343.12	10965.16
chr13	12763	BC055079	Cmah	Mus musc	427.5301	2937.038	2891.62
chr7	71345	BC025477	Ano9	Mus musc	581.8591	3934.207	4040.792
chr7	56188	BC024671	Fxyd1	Mus musc	226.5203	1530.653	1546.711
chr4	1E+08	BC055353	CU104690	Mus musc	247.4912	4814.84	1668.428
chr10	14728	BC099532	Lilrb4	Mus musc	329.5995	2221.012	2259.446
chr14	218865	BC039186	Chdh	Mus musc	307.4073	3777.196	2698.092
chr10	68802	AK220521	Mypn	Mus musc	656.488	4410.572	5559.794
chr3	16194	AK141197	Il6ra	Mus musc	907.216	6163.942	6093.308
chr7	103968	BC025137	Plin1	Mus musc	14.8597	688.0195	99.6035
chr11	19039	BC090658	Lgals3bp	Mus musc	1000.534	8158.674	6704.843
chr19	56072	BC030890	Lgals12	Mus musc	451.5555	5895.698	3025.882
chr16	64082	BC064005	Popdc2	Mus musc	129.4815	867.2279	1019.716
chr9	213208	BC107263	Il20rb	Mus musc	508.945	3406.78	4034.887
chr13	12763	AK083394	Cmah	Mus musc	418.2455	3150.566	2794.682
chr11	66708	BC117058	Krtap3-2	Mus musc	57.6383	384.8935	425.7955
chr13	114304	BC013783	Slc28a3	Mus musc	36.3682	489.6474	487.6495
chr18	66255	XM_88519	1810005K	PREDICT	62.3544	416.3855	415.9655
chr13	76469	AK010195	Cmya5	Mus musc	120.9182	806.2015	1042.278
chr11	20698	AF068748	Sphk1	Mus musc	519.478	3457.981	3566.02
chr9	235135	BC018222	Tmem45b	Mus musc	49.5741	1992.436	329.6795
chr2	19419	AK013548	Rasgrp1	Mus musc	11.6093	77.1035	95.7675
chr3	229900	BC010229	Gbp6	Mus musc	305.6022	2491.12	2023.672
chr11	54396	NM_01944	Irgm2	Mus musc	491.0173	3480.354	3249.646
chr1	20684	U83636	Sp100	alt 'A4300	78.9167	630.6875	521.9663
chr15	78725	BC055822	D730001G	Mus musc	72.014	509.4895	476.0975
chr14	17227	BC026198	Mcpt4	Mus musc	729.6408	12110.4	15478.04
chr9	22437	BC117959	Xirp1	Mus musc	53.0346	349.5695	510.8795
chr19	77836	BC111114	Mlana	Mus musc	271.9255	1791.506	1849.262
chr19	107350	EF660528	AW112010	Mus musc	11.1683	183.4452	73.5495
chr3	56376	AK009464	Pdlim5	Mus musc	1633.432	11580.41	13923.94
chr5	634650	BC111039	EG634650	Mus musc	16.9065	768.1195	305.4679
chr9	16173	BC024384	Il18	Mus musc	794.7835	5497.17	5464.412
chr1	623121	AK145253	LOC62312	Mus musc	8.1933	53.6889	60.9808
chr13	80796	BC060284	Calm4	Mus musc	2345.226	28768.62	26892.12
chr11	20698	AK155332	Sphk1	Mus musc	232.3415	1517.77	1560.387
chr17	76905	BC030733	Lrg1	Mus musc	35.1853	1096.364	229.1295
chr11	672511	AK173199	Rnf213	Mus musc	637.7135	4152.416	4216.796
chr11	216961	AK158179	Coro6	Mus musc	222.8157	1450.698	1545.648
chr4	14620	BC024387	Gjb3	Mus musc	879.5135	5729.8	5711.499
chr3	1E+08	XM_00148	Gm4400	PREDICT	16.5447	107.2533	140.3975
chr8	546212	XM_62086	Gm5927	PREDICT	100.4174	1384.17	927.9059
chr2	215274	BC107311	Il1f10	Mus musc	22.6366	146.6795	165.3715
chr4	17840	X04115	Mup1	Mouse mF	281.2675	5048.076	1821.84
chr14	19752	BC030036	Rnase1	Mus musc	70.5082	1440.555	1354.184
chr1	15950	AK161531	Ifi203	Mus musc	360.6509	2431.398	2332.171
chr2	640543	XM_00147	Tgm7	PREDICT	18.5631	147.4175	120.0155

chr10	629689	XM_89460	Gm6996	PREDICT	20.6002	847.9735	621.1475
chr4	230613	AK040044	Skint10	Mus musc	22.3886	144.5135	150.506
chr8	319446	AK171155	Dpep2	Mus musc	10.2962	67.2798	66.4194
chr4	72406	AK010245	2310081O	Mus musc	8.719	56.2432	78.2935
chr11	327978	BC117909	Slfn5	Mus musc	1098.514	8747.953	7063.872
chr9	21922	BC035043	Clec3b	Mus musc	1163.66	7463.93	8036.328
chr1	77917	XM_89639	A030014E	PREDICT	14.5846	103.5655	93.5175
chr10	12365	BC103555	Casp14	Mus musc	539.7995	8846.642	10685.92
chr9	272636	BC118967	Esy3	Mus musc	146.9975	940.9093	1141.67
chr3	17349	BC027526	Mlf1	Mus musc	820.9222	5253.038	6541.293
chr7	71345	BC049815	Ano9	Mus musc	595.7155	3811.804	4476.828
chr7	18724	BC139803	Pira11	Mus musc	98.909	631.0415	633.1497
chr2	16181	BC042532	Il1rn	Mus musc	167.3892	1203.068	1066.951
chr11	320116	BC104394	C030019D	Mus musc	215.1315	1371.142	1422.213
chr1	N/A	BC019395	N/A	Mus musc	501.7355	3195.718	3236.146
chr4	1E+08	XM_00147	Mup9	PREDICT	203.6275	2967.336	1296.924
chr6	66760	AK016914	4933425H	Mus musc	14.465	110.3175	91.9715
chr4	433751	XM_00147	Gm12866	PREDICT	25.2275	163.8715	160.3983
chr3	320832	AB112023	Sirpb1	Mus musc	16.0667	102.1295	107.4475
chr4	11832	BC022223	Aqp7	Mus musc	159.5855	11209.03	2893.556
chr16	207798	BC037472	Gramd1c	Mus musc	142.1215	1033.794	1373.332
chr15	76282	BC022625	Gpt	Mus musc	719.3255	8549.602	5101.874
chr4	1E+08	AJ309921	Mup10	Mus musc	419.3615	7603.052	2650.698
chr7	74134	AK054324	Cyp2s1	Mus musc	52.6123	357.72	332.0855
chr10	69564	BC119244	Itgb1bp3	Mus musc	62.3544	392.6135	459.0855
chr5	58522	BC107258	Trim54	Mus musc	248.8995	1562.664	2106.122
chr14	218865	AK164042	Chdh	Mus musc	157.8894	2360.794	1553.208
chr17	70835	BC055854	Prss22	Mus musc	95.3226	612.9655	597.6595
chr1	226691	XM_98069	AI607873	PREDICT	204.6969	1282.782	1487.65
chr2	108115	AK172688	Slco4a1	Mus musc	72.1728	645.8735	891.7815
chr19	15957	BC003768	lfit1	Mus musc	204.9115	1407.562	1279.818
chr10	216225	BC017691	Slc5a8	Mus musc	6.6809	41.6666	47.3512
chr1	240921	XM_13633	Gm4955	PREDICT	232.5374	1939.934	1448.802
chr11	13808	BC013460	Eno3	Mus musc	3506.584	22269.5	21845.49
chr10	16694	BC107319	Krtap12-1	Mus musc	11.7968	90.4615	73.4115
chr19	225845	AK052657	Pla2g16	Mus musc	10.697	91.2715	66.5074
chr12	N/A	AK019935	N/A	Mus musc	72.2669	582.0495	449.3015
chr1	226691	AK054438	AI607873	Mus musc	176.8095	1281.486	1097.119
chr12	65256	AK155235	Asb2	Mus musc	195.2035	1211.085	1796.722
chr14	13190	BC067064	Dct	Mus musc	829.4075	6843.51	7734.468
chr10	71912	AK009016	Jsrp1	Mus musc	197.9644	1225.546	1734.79
chr11	17884	DQ066420	Myh4	alt 'AI5069	86.5954	535.8515	671.171
chr14	13190	AK033040	Dct	Mus musc	766.5815	6725.2	6817.626
chr7	70877	AK014911	Micalcl	Mus musc	86.2768	531.7397	549.5639
chr2	12496	BC011241	Entpd2	Mus musc	197.5955	1316.144	1216.82
chr8	1E+08	XM_00147	Gm2749	PREDICT	39.6324	864.9915	669.6083
chr11	327978	AY261805	Slfn5	Mus musc	142.2542	1097.936	871.0559
chr7	11870	BC132492	Art1	Mus musc	269.7955	1651.821	2334.61
chr13	N/A	M54998	N/A	Mus musc	39.0622	287.3935	238.6121
chr3	71934	BC064050	Car13	Mus musc	265.8135	2157.274	1736.097
chr2	619800	XM_88417	Gm6103	PREDICT	9.1341	192.3635	55.6797
chr14	16854	BC132328	Lgals3	Mus musc	35.0128	213.2755	341.8395
chr6	N/A	AK079912	N/A	Mus musc	17.1963	1395.95	104.5738



chr7	66853	BC019188	Pnpla2	Mus musc	1997.474	28615.78	14336.7
chr10	1E+08	XM_00147	Gm3285	PREDICT	58.6427	597.4338	356.1475
chr5	243197	BC094512	Mfsd7a	Mus musc	175.4495	1187.421	1064.682
chr3	68723	XM_00100	Hmnr	PREDICT	838.1195	20729.04	21776.64
chr12	76933	AK040279	Ifi2712a	Mus musc	13.9847	125.4895	84.7955
chr14	219132	AK156583	D14Ert66	Mus musc	112.8835	899.7475	684.4155
chr14	210789	AK039337	Tbc1d4	Mus musc	136.0515	824.4443	973.7759
chr7	209387	AK164938	Al451617	Mus musc	327.1625	1982.09	2087.2
chr8	67866	BC025850	Wfdc1	Mus musc	39.1536	237.0115	352.5495
chr8	72361	AK146261	2210023G	Mus musc	16.7148	596.6264	398.9335
chr5	23962	BC034361	Oasl2	Mus musc	229.7593	1542.078	1387.626
chr9	214531	BC085323	Tmprss13	Mus musc	377.1583	2273.878	2542.644
chr16	17858	NM_01360	Mx2	Mus musc	21.978	148.814	132.2919
chr4	17844	BC132310	Mup5	Mus musc	45.6056	628.4675	274.3355
chr2	18534	BC028342	Pck1	Mus musc	19.8561	1551.37	179.0815
chr4	66260	BC019563	Tmem54	Mus musc	1559.442	9372.596	9997.43
chr6	15277	BC054472	Hk2	Mus musc	874.5335	5547.544	5242.42
chr1	236312	BC096384	Pyhin1	Mus musc	31.1088	285.7275	186.4155
chr10	14727	BC065784	Gp49a	Mus musc	284.5575	1698.024	2162.608
chr7	20277	AK087055	Scnn1b	Mus musc	42.7559	254.9175	388.0595
chr14	432836	XM_48436	3425401B	PREDICT	217.2955	1293.762	2030.326
chr13	N/A	BC034889	N/A	Mus musc	18.234	108.4863	166.4182
chr3	320352	AK085279	Lrrc31	Mus musc	7.509	60.6609	44.6541
chr11	217344	BC052182	Rhbdf2	Mus musc	570.1235	3782.362	3389.824
chr3	14066	BC016397	F3	Mus musc	285.6815	1963.964	2441.676
chr7	1E+08	XM_00147	Gm4070	PREDICT	160.0275	948.3795	1114.858
chr5	20531	BC096369	Slc34a2	Mus musc	120.1988	2642.968	3067.106
chr17	78249	BC089564	Gpr115	Mus musc	517.4515	3050.386	3292.126
chr2	21817	BC016492	Tgm2	Mus musc	1306.062	9115.036	10548.76
chr11	N/A	AK009121	N/A	Mus musc	28.3482	198.4002	166.8495
chr8	16956	AK089473	Lpl	Mus musc	40.1771	635.3935	375.5435
chr16	71930	AK009785	2310043M	Mus musc	34.8086	208.5115	289.1435
chr12	65256	AF155353	Asb2	Mus musc	221.5335	1298.97	2059.002
chr4	66260	AK009830	Tmem54	Mus musc	329.7971	1932.74	2277.385
chr1	12292	AK143541	Cacna1s	Mus musc	482.2795	2821.886	3895.848
chr18	16774	U88353	Lama3	Mus musc	175.2455	1023.414	1130.019
chr15	19116	AK087749	Prlr	Mus musc	48.2959	281.4735	316.0415
chr5	74376	AK077135	Myo18b	Mus musc	517.9295	3016.773	4263.432
chr15	105866	BC156168	Krt72	Synthetic	151.5695	881.0635	983.6355
chr3	320782	AK171510	Tmem154	Mus musc	10.7427	62.3704	63.9081
chr5	23961	X55982	Oas1b	Mouse mF	65.9448	424.1935	382.6435
chr14	56643	AK085471	Slc15a1	Mus musc	5.9987	42.2238	34.8047
chr5	56744	BC061111	Pf4	Mus musc	333.4975	1934.618	2254.014
chr19	1E+08	XM_00147	Gm2655	PREDICT	39.1409	515.3075	226.6855
chr5	58522	BC107259	Trim54	Mus musc	551.2295	3190.831	3855.69
chr16	547253	AK156593	Parp14	Mus musc	82.1295	475.1735	479.0301
chr4	17840	BC100586	Mup1	Mus musc	242.5575	4214.684	1403.108
chr8	17930	BC115722	Myom2	Mus musc	1716.968	9926.757	13417.46
chr7	11870	BC063760	Art1	Mus musc	222.8201	1288.186	2238.623
chr8	382364	XM_35646	Gm1153	PREDICT	31.2361	954.0035	624.8413
chr15	97998	BC156690	Depdc6	Synthetic	600.4015	3467.967	3655.961
chr4	17840	BC091744	Mup1	Mus musc	254.5355	4786.346	1469.687
chr11	56012	BC010750	Pgam2	Mus musc	1734.256	10008.23	10221.73

chr3	16194	BC148583	Il6ra	Synthetic	532.5035	3070.664	3241.492
chr12	11565	BC039943	Adssl1	Mus musc	1341.144	7730.01	7887.526
chr17	11811	BC027530	Apobec2	Mus musc	1783.932	10271.34	12568.95
chr2	59010	BC011153	Sqrdl	Mus musc	596.8815	4473.502	3436.626
chr19	109225	AK046559	Ms4a7	Mus musc	24.8243	142.8493	172.5495
chr11	68701	BC115957	Dysfip1	Mus musc	88.0195	506.272	844.8615
chr11	66601	BC061082	Tmigd1	Mus musc	11.2904	252.5555	222.636
chr7	668139	AK041647	Gm8995	Mus musc	97.4915	560.4495	571.7447
chr12	22095	BC092523	Tshr	Mus musc	69.0817	1613.304	1047.928
chr3	368202	BC116378	Prss48	Mus musc	22.7852	131.8143	130.8422
chr18	13510	XM_48470	Dsg1a	PREDICTI	1545.33	8945.048	8863.074
chr7	272428	BC095985	Acsm5	Mus musc	7.4776	116.9615	81.3292
chr16	12394	AK155262	Runx1	Mus musc	57.6796	330.4003	349.3555
chr14	68680	BC104408	Fitm1	Mus musc	613.7375	3512.956	5321.502
chr15	19293	BC027424	Pvalb	Mus musc	38.5733	220.7295	263.9795
chr1	57339	BC120839	Jph1	Mus musc	508.909	2911.696	3867.236
chr10	407790	NM_00109	Ndufa4l2	Mus musc	1734.992	16560.46	15757.61
chr19	240633	BC055815	Lipk	Mus musc	97.643	1370.054	1458.502
chr14	665075	XM_97711	Gm7480	PREDICTI	12.3309	70.1896	72.2076
chr14	74571	AK014626	Kcnk16	Mus musc	19.7515	137.8238	112.0115
chr13	16364	AK089319	Irf4	Mus musc	82.8683	861.9609	468.8315
chr12	58185	AK153350	Rsad2	Mus musc	128.226	2150.418	849.9787
chr1	22236	BC145969	Ugt1a2	Mus musc	32.2857	245.5315	182.2189
chr5	57816	BC019492	Tesc	Mus musc	401.4415	2642.402	2347.192
chr4	230726	BC115495	Rhbdl2	Mus musc	24.2789	136.8597	147.7255
chr2	665700	XM_97879	Hmcn2	PREDICTI	44.0344	247.6275	374.4315
chr7	18733	AK142375	Lilrb3	Mus musc	114.0823	640.7405	765.4515
chr8	75704	XM_13447	2310039D	PREDICTI	8.1137	316.9715	45.5588
chr9	76459	AK157977	Car12	Mus musc	37.7144	234.8998	211.5
chr17	78249	AK019508	Gpr115	Mus musc	499.5909	3010.948	2801.17
chr5	231655	AF426289	Oasl1	Mus musc	102.7136	632.0731	575.1215
chr5	63873	BC127052	Trpv4	Mus musc	311.2375	1750.37	1820.492
chr17	14997	BC146408	H2-M9	Synthetic	22.2002	124.2235	232.6855
chr6	68487	AK085154	Tmem140	Mus musc	24.6814	189.1264	137.9255
chr18	N/A	AK085760	N/A	Mus musc	35.5334	198.3375	208.7035
chr1	16963	BC062249	Xcl1	Mus musc	15.9976	101.4655	88.9824
chr6	76432	AK009064	2310001H	Mus musc	30.8736	171.7235	194.0475
chr15	12257	BC002055	Tspo	Mus musc	819.53	9024.912	4542.836
chr18	117158	BC061046	Scgb3a2	Mus musc	14.561	146.9975	166.8015
chr2	64899	AK033647	Lpin3	Mus musc	120.1275	704.6555	663.9874
chr3	14066	BC024886	F3	Mus musc	243.3149	1789.924	1772.676
chr5	236573	BC057170	BC057170	Mus musc	48.1886	267.3332	266.0215
chr15	19116	M22959	Prlr	Mouse pro	165.7075	1141.918	912.9095
chr17	74917	AK015576	4930474M	Mus musc	48.9853	269.5875	308.2595
chr19	20249	BC007474	Scd1	Mus musc	3741.298	25394.25	20513.87
chr11	94089	AF396656	Trim7	Mus musc	106.8355	589.8875	585.5335
chr1	15483	AK167419	Hsd11b1	Mus musc	16.9037	103.0438	92.6135
chr11	N/A	AK040873	N/A	Mus musc	67.1918	839.9035	585.0995
chr11	66601	AK008028	Tmigd1	Mus musc	12.4513	199.1795	185.2935
chr2	54448	BC117102	Il1f6	Mus musc	120.0035	1474.984	1307.95
chr13	12763	AK040274	Cmah	Mus musc	21.347	126.3166	116.4924
chr1	381308	BC132314	Mnda	Mus musc	486.2606	3272.69	2646.172
chr15	16012	BC012723	Igfbp6	Mus musc	305.9175	2010.925	1664.089



chr5	57816	BC107679	Tesc	Mus musc	383.5835	2532.493	2314.699
chr16	16703	AK133727	Krtap8-1	Mus musc	68.5828	417.1495	372.4855
chr11	382551	BC119352	RP23-331L	Mus musc	121.8775	660.4195	683.9815
chr3	69332	AK005903	Lelp1	Mus musc	7.3077	120.5335	170.8175
chr7	16890	BC021642	Lipe	Mus musc	859.5535	15843.93	4950.455
chr7	17178	BC002039	Fxyd3	Mus musc	851.3975	4606.065	5178.464
chr16	71338	AK017323	Tprg	Mus musc	62.5226	493.0955	494.3135
chr13	70145	AK008767	2210022D	Mus musc	34.2793	297.0755	185.3675
chr7	434219	XM_48598	Gm5598	PREDICTI	41.8983	226.2054	258.8395
chr6	66760	XM_00147	4933425H	PREDICTI	26.3251	141.9755	157.2755
chr7	209387	BC056631	Al451617	Mus musc	111.7395	635.1425	601.6515
chr14	213019	BC024556	Pdlim2	Mus musc	1431.15	7701.809	7836.678
chr8	72297	BC026418	B3gnt3	Mus musc	184.1935	1576.796	1337.212
chr10	N/A	AK163103	N/A	Mus musc	22.9377	123.2256	155.3573
chr6	17342	AK160757	Mitf	Mus musc	27.7645	152.1375	149.143
chr7	320878	BC112415	Mical2	Mus musc	249.6428	1339.514	1878.47
chrX	66106	BC051197	Smpx	Mus musc	320.4495	1719.134	2311.592
chr1	12477	BC042741	Ctla4	Mus musc	42.46	227.7875	227.5995
chr4	242285	BC104134	Sdr16c5	Mus musc	363.4795	2654.288	2800.716
chr11	11484	AK035910	Aspa	Mus musc	9.7227	94.9835	51.9962
chr15	19116	BC005555	Prlr	Mus musc	180.5835	1181.83	965.4028
chr6	110175	BC080818	Ggct	Mus musc	819.1135	8667.414	8474.598
chr1	13034	BC005432	Ctse	Mus musc	127.8915	781.0735	683.1201
chrX	66106	BC061051	Smpx	Mus musc	360.6429	1924.355	2426.122
chr9	18113	BC028757	Nnmt	Mus musc	147.8675	921.1916	788.8375
chr5	57816	AK010463	Tesc	Mus musc	389.6155	2351.036	2305.816
chr14	432836	AK132190	3425401B	Mus musc	257.7274	1372.996	2016.326
chr2	17996	AF203899	Neb	Mus musc	1672.726	8858.812	12242.58
chr13	74559	BC005602	Elovl7	Mus musc	531.9735	4224.718	4533.856
chr19	667370	AK152620	I830012O1	Mus musc	199.0015	1473.482	1053.434
chr10	1E+08	XM_00147	Gm2696	PREDICTI	23.2164	213.7374	122.5915
chr2	12505	AK087472	Cd44	Mus musc	519.8275	2744.041	2958.294
chr5	665270	BC033606	Plb1	Mus musc	38.6396	283.2695	318.8871
chr13	328265	AK040640	A530001N	Mus musc	18.1634	375.1655	196.9655
chr3	83679	NM_00111	Pde4dip	Mus musc	1375.198	7243.188	8350.29
chr11	71889	BC016454	Epn3	Mus musc	348.2355	1832.631	1964.288
chr5	29817	BC092538	Igfbp7	Mus musc	1815.074	9539.722	10146.91
chr11	76758	AK008685	Gsdma2	Mus musc	56.9816	372.1835	299.4255
chr12	27260	BC028902	Plek2	Mus musc	479.1035	2517.188	2805.1
chr10	71712	AK151184	Dram1	Mus musc	373.2378	2958.002	2518.554
chr11	217217	BC152349	Asb16	Mus musc	67.5718	353.9915	564.1129
chr7	1E+08	XM_00147	LOC10003	PREDICTI	92.6295	483.6707	483.7856
chr11	20305	BC002073	Ccl6	Mus musc	132.5375	949.5515	691.4335
chr1	74591	AK014713	Abca12	Mus musc	12.8426	76.1462	66.9538
chr7	243912	BC089621	Hspb6	Mus musc	283.2368	1476.286	1910.768
chr1	381308	AK080485	Mnda	Mus musc	291.7215	2067.696	1520.426
chr2	22138	AK157782	Ttn	Mus musc	1121.312	5842.206	12558.19
chr3	1E+08	XM_00147	Gm2292	PREDICTI	880.4164	4585.484	5454.974
chr11	30805	BC010590	Slc22a4	Mus musc	702.0931	4067.01	4581.448
chr19	15959	BC003804	Ifit3	Mus musc	176.6455	1411.064	919.4112
chr6	231991	AK170766	Creb5	Mus musc	30.147	156.7715	191.4435
chr11	20293	BC027520	Ccl12	Mus musc	21.1425	136.3283	139.14
chr7	18729	NM_00884	Pira6	Mus musc	73.2995	432.4555	380.3735

chr16	224079	AK079092	Atp13a4	Mus musc	14.5837	621.4083	445.6149
chr3	14469	BC011336	Gbp2	Mus musc	106.6483	702.7075	552.4215
chr10	634504	XM_00147	Gm7137	PREDICT	187.4145	1565.402	969.8055
chr11	N/A	BC032879	N/A	Mus musc	113.2275	773.9491	585.4555
chr7	22173	BC079678	Tyr	Mus musc	473.5055	2468.121	2733.552
chr1	15950	BC008167	Ifi203	Mus musc	385.8509	2605.176	1993.412
chr7	18733	BC026937	Lilrb3	Mus musc	125.239	645.4255	846.3915
chr17	17929	NM_00108	Myom1	Mus musc	2251.176	11601.01	15633.46
chr2	22138	BC025840	Ttn	Mus musc	1426.632	7342.774	10266.11
chr7	66065	AK002831	Hsd17b14	Mus musc	47.8547	246.2435	818.6235
chr5	23961	XM_00147	Oas1b	PREDICT	77.7735	399.7435	467.8873
chr3	11522	BC013477	Adh1	Mus musc	734.7915	11071.32	8938.808
chr11	237987	AB087504	Otop2	Mus musc	14.561	90.0535	74.6078
chr19	667370	NM_00100	I830012O1	Mus musc	244.8898	1606.616	1253.845
chr4	56222	BC132360	Cited4	Mus musc	165.3595	845.3895	1032.072
chr8	1E+08	XM_00147	Gm3014	PREDICT	89.8942	505.9355	535.2828
chr2	20459	BC125342	Ptk6	Mus musc	190.3915	1186.332	1207.65
chr5	74376	XM_99020	Myo18b	PREDICT	589.8551	3009.709	4040.514
chr2	22259	AY195871	Nr1h3	Mus musc	297.5726	3592.254	1589.522
chr7	18725	U96683	Pira2	Mus musc	21.016	155.2115	107.1535
chr11	69640	BC085279	Fam83g	Mus musc	895.5271	4747.144	4558.82
chr10	70061	AK007857	Sdr9c7	Mus musc	474.2715	3978.637	4242.166
chr1	226421	AK036056	5430435G	Mus musc	772.7845	3929.029	4379.382
chr6	93746	BC119192	Gprc5d	Mus musc	14.4528	73.3975	95.2027
chr10	70574	BC100404	Cpm	Mus musc	414.5891	2103.52	2130.772
chr10	11630	AK041082	Aim1	Mus musc	924.7855	4677.716	4992.363
chr4	230726	BC052650	Rhbdl2	Mus musc	92.4971	467.3115	515.7298
chr1	23956	AF139059	Neu2	Mus musc	22.7841	115.0147	156.4275
chr7	1E+08	XM_00147	LOC10003	PREDICT	108.6815	548.5655	552.6715
chr10	17878	BC119209	Myf6	Mus musc	243.9402	2012.714	2587.613
chr9	11891	AF304376	Rab27a	Mus musc	275.2595	1387.844	1472.15
chr19	54447	AK046540	Asah2	Mus musc	23.7089	119.4869	150.4475
chr4	320896	AK049295	C330020E	Mus musc	58.0021	292.2975	474.0235
chr11	16145	AK165065	Igtp	Mus musc	385.8843	2080.752	2128.333
chr7	18724	BC103528	Pira11	Mus musc	177.1856	1039.726	891.8575
chr11	71889	AK158031	Epn3	Mus musc	352.7715	1775.242	2030.07
chr11	17001	BC028760	Ltc4s	Mus musc	53.1306	355.5475	266.9773
chr12	20741	BC129806	Spnb1	Mus musc	263.5475	1319.368	1638.076
chr3	109222	AK077393	Rarres1	Mus musc	197.8135	989.8315	1221.749
chr4	631037	XM_98214	Gm12839	PREDICT	91.6715	458.5595	575.8435
chr15	69462	BC115610	2300005B	Mus musc	11.7201	902.5995	562.0795
chr13	N/A	M34969	N/A	Mouse (cl	7.5764	37.8398	64.4008
chr3	320832	AK036935	Sirpb1	Mus musc	14.2894	85.4415	71.2237
chr19	73458	AK006803	1700055N	Mus musc	173.5019	4905.667	4991.362
chr1	53945	AK033987	Slc40a1	Mus musc	22.9239	144.1778	113.9775
chr7	69540	BC002100	Kik10	Mus musc	591.2275	2939.172	3370.344
chr9	71602	AK009155	Myo1e	Mus musc	40.8521	208.9655	202.9725
chr11	672511	XM_00147	Rnf213	PREDICT	63.038	377.3218	312.9815
chr19	54447	AK041937	Asah2	Mus musc	73.5995	498.7015	364.9815
chr1	20725	AK048230	Serpnb8	Mus musc	12.9662	64.2011	92.159
chr2	22138	AK052859	Ttn	Mus musc	31.1364	153.9215	279.2855
chr11	74184	AK010044	2310065F	Mus musc	74.9995	370.6715	609.8895
chr10	70061	BC064820	Sdr9c7	Mus musc	645.2115	5130.728	6087.78

chr3	320832	AK029805	Sirpb1	Mus musc	13.0516	65.3152	64.4601
chr11	15953	BC001986	Ifi47	Mus musc	165.3927	950.3715	816.3855
chr2	19224	BC005573	Ptgs1	Mus musc	241.1459	1377.584	1188.893
chr2	208618	AK052733	Etl4	Mus musc	15.8423	78.053	127.4755
chr11	20528	BC014282	Slc2a4	Mus musc	1320.298	10173.64	6503.264
chr8	67866	BC132073	Wfdc1	Mus musc	215.3435	1060.313	1446.05
chr4	1E+08	AK013259	LOC10018	Mus musc	263.9475	4301.358	1299.336
chr5	246730	BC013715	Oas1a	Mus musc	9.742	47.9091	65.577
chr7	67425	AK014556	Eps8l1	Mus musc	1235.448	6280.99	6059.022
chr10	69678	AK084504	2310050B	Mus musc	450.9003	2370.97	2246.349
chr11	20391	AK075915	Sgca	Mus musc	530.7075	2601.082	3250.382
chr3	22724	BC091651	Zbtb7b	Mus musc	386.4355	2234.943	1893.964
chr9	235587	AK088125	Parp3	Mus musc	183.8271	1006.21	899.672
chr7	12489	NM_00111	Cd33	Mus musc	100.7115	492.4635	669.3995
chr19	60533	BC066841	Cd274	Mus musc	30.7316	268.8595	149.7755
chr8	17930	AK052683	Myom2	Mus musc	52.8329	257.4735	339.2255
chr12	58185	BC057868	Rsad2	Mus musc	146.8155	2454.182	1004.585
chr6	66760	XM_00147	4933425H	PREDICTI	17.764	86.4635	92.8075
chr8	N/A	AK041755	N/A	Mus musc	52.0932	275.97	253.4675
chr7	665308	XM_97758	Gm7580	PREDICTI	29.4024	142.8955	216.5703
chr9	22041	AK142599	Trf	Mus musc	4215.748	29075.44	25355.27
chr7	20128	BC005447	Trim30	Mus musc	55.938	271.5355	274.9135
chr11	16666	BC103666	Krt16	Mus musc	267.145	2907.321	2460.928
chr10	215928	AK144527	BC021785	Mus musc	10.6355	114.3935	63.7722
chr4	1E+08	XM_00147	Mup12	PREDICTI	245.8795	4299.206	1191.96
chr10	71664	BC024898	Mettl7b	Mus musc	33.0296	210.0395	192.9295
chr11	N/A	U76754	N/A	Mus musc	209.5048	1349.208	1015.036
chr17	171168	BC130254	Acer1	Mus musc	1338.888	6477.78	6527.802
chr3	N/A	AK137696	N/A	Mus musc	11.9905	82.5987	112.1355
chr11	16666	BC103615	Krt16	Mus musc	277.7355	2991.768	2520.126
chr14	16995	BC064063	Ltb4r1	Mus musc	31.1425	150.2595	189.3674
chr1	246256	BC027310	Fcgr4	Mus musc	35.4297	257.2987	170.7895
chr2	21817	AF114266	Tgm2	Mus musc	857.6495	6959.902	8136.432
chr16	52793	BC048949	Fam3b	Mus musc	36.6714	191.9815	176.5762
chr9	12502	BC027528	Cd3g	Mus musc	70.6596	442.4135	340.1495
chr3	20198	BC094635	S100a4	Mus musc	211.2475	1012.982	1380.13
chr13	N/A	BC057651	N/A	Mus musc	143.9315	1125.174	2000.995
chr4	242285	AK136508	Sdr16c5	Mus musc	20.0391	186.7075	158.5048
chr6	70809	BC117543	Clec2g	Mus musc	97.014	1200.919	916.8215
chr3	13601	AK159334	Ecm1	Mus musc	1743.156	8345.596	11640.94
chr7	116903	BC111865	Calcb	Mus musc	54.2871	286.0755	259.6255
chr1	241113	BC116749	Prkag3	Mus musc	325.7735	1557.6	2308.898
chr8	N/A	XM_98992	N/A	PREDICTI	57.6963	548.9241	359.8716
chr8	664859	XM_97309	Gm7373	PREDICTI	58.2562	803.3795	415.8795
chr18	26410	BC125286	Map3k8	Mus musc	251.7035	1219.098	1202.15
chr7	20887	BC005413	Sult1a1	Mus musc	355.5675	3479.846	1697.766
chr2	69454	BC060967	Clic3	Mus musc	349.4552	1685.976	1664.937
chr15	223473	AK087325	Nipal2	Mus musc	31.0623	147.9015	174.1781
chr6	15170	AK132509	Ptpn6	Mus musc	47.6759	226.8195	300.8255
chr16	224079	BC038696	Atp13a4	Mus musc	20.8952	555.5606	464.0755
chr2	228357	AK051967	Lrp4	Mus musc	131.5595	646.6495	624.8495
chr5	69820	AK079377	1810059H	Mus musc	89.7735	496.6115	426.1001
chr19	78753	NM_02390	Lipm	Mus musc	23.8272	112.9815	140.6795

chr8	69550	BC027328	Bst2	Mus musc	571.8955	3193.722	2710.88
chr7	50722	BC002215	Dkk1	Mus musc	722.9692	3426.09	3514.639
chr14	108670	BC021821	Epsti1	Mus musc	172.6849	832.8595	817.4995
chr3	22724	AK149976	Zbtb7b	Mus musc	627.5215	3936.491	2965.871
chr5	55985	BC012965	Cxcl13	Mus musc	27.7674	131.2075	179.6115
chr19	107227	BC008653	Macrod1	Mus musc	1114.772	9940.944	5261.577
chr2	16169	AK080000	Il15ra	Mus musc	35.869	285.4555	169.2915
chr9	56318	BC139826	Acpp	Mus musc	530.6703	2500.774	2731.946
chr11	217344	AK042365	Rhbdf2	Mus musc	17.2708	91.4975	81.3875
chr4	230890	NM_00108	Gm436	Mus musc	7.9976	38.6495	37.6868
chr16	50795	BC141538	Sh3bgr	Synthetic	686.6348	4583.552	4517.316
chr11	1E+08	XM_00147	Gm3626	PREDICT	53.8974	253.6529	316.9535
chr18	18018	AF239169	Nfatc1	Mus musc	760.6314	3578.436	4556.208
chr2	16169	BC095982	Il15ra	Mus musc	52.7708	463.4035	248.0195
chr11	667214	XM_98906	RP23-269	PREDICT	184.6475	866.2112	889.8675
chr3	N/A	BC099888	N/A	Mus musc	38.3226	4776.908	5215.784
chr15	16197	BC089571	Il7r	Mus musc	44.2487	207.0555	516.1523
chr18	320253	AK036622	March3	Mus musc	63.4922	297.0186	296.8455
chr6	78781	BC029090	Zc3hav1	Mus musc	67.0998	313.6875	360.3869
chr8	15486	BC012682	Hsd17b2	Mus musc	70.9879	1525.23	1444.724
chr5	23961	NM_00108	Oas1b	Mus musc	81.8412	434.5802	381.7395
chr4	332937	BC156068	Tcfap2e	Synthetic	78.075	396.9695	472.5975
chr11	631323	XM_90509	Gm12250	PREDICT	87.9735	580.8035	410.2135
chr2	N/A	AB117943	N/A	Mus musc	289.9611	1484.256	2219.262
chr9	244757	AK143057	Glb1l2	Mus musc	146.2375	1625.194	680.9875
chr12	71907	BC132287	Serpina9	Mus musc	20.0686	150.7695	201.4032
chr19	21416	AK084488	Tcf7l2	Mus musc	20.7686	96.6755	113.3655
chr7	18733	AK165650	Lilrb3	Mus musc	28.9351	136.7776	134.4895
chr3	50874	AK144535	Tmod4	Mus musc	193.2611	898.2635	1082.267
chr13	109254	BC027755	9530008L1	Mus musc	716.7955	4850.966	3331.37
chr2	66860	AK030022	Tanc1	Mus musc	63.7733	317.6534	295.9895
chr19	26930	BC152974	Ppnr	Synthetic	139.4295	686.9428	646.1695
chr5	17472	EF494423	Gbp4	alt 'AW228	93.6055	433.096	465.109
chr9	320528	AK158842	Vps13c	Mus musc	18.31	85.3495	84.6795
chr2	1E+08	XM_00147	Gm2957	PREDICT	157.9025	823.4516	730.1878
chr15	19013	AK149460	Ppara	Mus musc	401.4095	15809.3	1855.344
chr2	74161	AK079954	1300015D	Mus musc	7.1761	254.8959	47.5442
chr1	12477	U90270	Ctla4	Mus musc	28.7581	164.9735	157.2275
chr7	434223	XM_00100	Gm1966	PREDICT	55.5378	262.0795	256.6195
chr7	12862	BC028514	Cox6a2	Mus musc	1847.361	8525.019	10850.3
chr7	20130	BC009105	Rras	Mus musc	1251.858	6093.796	6466.245
chr7	21957	L49466	Tnnt3	Mus musc	5949.48	27447.92	29948.67
chr6	209086	AK052535	Samd9l	Mus musc	231.1245	1064.387	1222.641
chr15	116939	BC028792	Pnpla3	Mus musc	520.8175	7624.883	2395.838
chrX	69537	BC023246	Dnase11	Mus musc	336.8275	1548.468	1890.236
chr11	94089	AK029860	Trim7	Mus musc	40.008	183.9075	244.2837
chr11	217305	BC019814	Cd300ld	Mus musc	35.5198	163.2755	193.7135
chr3	22156	AK171705	Tuft1	Mus musc	728.6175	3348.42	3737.42
chr7	N/A	AK201408	N/A	Mus musc	17.5594	82.0555	80.5555
chr6	70809	AK137753	Clec2g	Mus musc	27.0544	125.9255	131.5915
chr5	14284	AK145822	Fosl2	Mus musc	101.7855	638.8895	466.5952
chr13	218624	AY509150	Il31ra	Mus musc	81.3275	372.7095	571.3615
chr1	93689	BC148633	Lmod1	Synthetic	142.2135	651.5175	993.7941



chr1	116872	BC064004	Serpib7	Mus musc	1199.183	6183.37	5492.858
chr1	18788	AK081487	Serpib2	Mus musc	174.4955	799.0343	819.6675
chr11	21822	AK088858	Tgtp	Mus musc	32.5512	231.8455	148.9375
chr2	22138	AK085811	Ttn	Mus musc	73.5415	336.1695	405.2821
chr13	74559	AK050441	Elovl7	Mus musc	541.2525	4343.229	4152.19
chr5	80888	BC011219	Hspb8	Mus musc	1504.188	6871.61	9002.644
chr15	97998	AK171902	Depdc6	Mus musc	604.3995	2756.26	3070.894
chr6	11468	BC002042	Actg2	Mus musc	448.7049	2042.469	2713.65
chrX	83453	AF321853	Chrd1	Mus musc	149.1195	819.2847	738.6698
chr11	22778	AK154175	Ikzf1	Mus musc	21.828	99.3035	104.2335
chr4	21949	BC117093	Tnfsf8	Mus musc	13.1774	81.8355	59.9471
chr7	21957	L48988	Tnnt3	Mus musc	4540.218	27262.6	20612.16
chr9	70031	AK161079	Cmtm8	Mus musc	19.8212	89.9592	111.1275
chr14	16995	AK155181	Ltb4r1	Mus musc	70.688	346.8805	320.6385
chr11	237987	BC141529	Otop2	Synthetic	21.6839	98.3495	102.689
chr7	17364	AK164423	Trpm1	Mus musc	42.7123	428.7215	436.6232
chr2	16403	AK018033	Itga6	Mus musc	52.0456	235.4855	244.1655
chr7	14343	BC109145	Fut1	Mus musc	142.0044	642.2635	717.4935
chr6	231991	AK084024	Creb5	Mus musc	201.0679	908.1575	999.1695
chr11	380698	BC060226	Obscn	Mus musc	635.4235	2867.96	4316.191
chr17	21355	BC005578	Tap2	Mus musc	649.0212	4710.04	2927.564
chr3	12350	BC011129	Car3	Mus musc	6689.544	32927.42	30157.61
chr3	11770	BC054426	Fabp4	Mus musc	4805.868	33806.09	28942.01
chr6	93695	BC026375	Gpnmb	Mus musc	520.1541	2343.397	2581.488
chr3	12655	BC061154	Chi3l3	Mus musc	15.8384	124.977	95.8395
chr1	67330	AK047804	1700047M	Mus musc	10.6827	79.7975	64.0021
chr4	242646	BC115474	Tctex1d4	Mus musc	11.4797	71.1076	66.7039
chr14	319476	BC132594	Lrtm1	Mus musc	305.7675	1667.196	1376.204
chr12	170721	AK138980	Papln	Mus musc	57.6763	368.0355	268.1195
chr18	N/A	AK041009	N/A	Mus musc	35.5655	159.7794	192.5115
chr14	319476	BC099587	Lrtm1	Mus musc	290.0915	1681.292	1301.602
chr1	20344	BC109158	Selp	Mus musc	57.4467	526.7704	754.8035
chr7	14276	BC022108	Folr2	Mus musc	448.8277	2184.83	2012.428
chr3	211666	BC132234	Mgst2	Mus musc	92.0039	1715.544	1354.431
chr1	70788	BC115428	Klhl30	Mus musc	387.4837	1734.654	2377.642
chr11	16145	AK152337	Igtp	Mus musc	415.7735	2319.492	2148.054
chr1	20725	BC011076	Serpib8	Mus musc	628.3915	2808.536	3288.307
chr6	N/A	AK087950	N/A	Mus musc	204.5375	911.5755	953.4695
chr11	217333	BC132148	Trim47	Mus musc	425.8465	1895.242	2550.79
chr1	13518	AF396877	Dst	alt '23100	2438.062	10837.97	12049.26
chr2	208618	AK018352	Etl4	Mus musc	87.9595	399.6195	390.9415
chr19	14102	BC061160	Fas	Mus musc	196.3075	1052.325	923.6165
chr7	20679	AK084290	Sox6	Mus musc	36.1166	175.588	160.1815
chr2	69553	AK009597	Fam65c	Mus musc	158.0606	832.2235	861.9694
chr16	106393	AK036394	Srl	Mus musc	1201.396	5311.4	6395.684
chr18	74842	XM_99476	4833419G	PREDICTI	24.5244	150.3955	112.2572
chr9	12364	BC028979	Casp12	Mus musc	68.0197	300.6535	368.4895
chr3	229488	AK076386	Fam160a1	Mus musc	452.5276	1999.49	2270.84
chr11	216864	BC111520	Mgl2	Mus musc	8.0638	35.62	92.5134
chr13	69211	AK036683	2310081J2	Mus musc	22.5757	99.6855	109.9175
chr14	19229	AK150105	Ptk2b	Mus musc	847.9235	7006.582	3743.824
chr7	259277	BC055895	Klk8	Mus musc	937.8275	4680.975	4140.148
chr3	16939	BC058223	Lor	Mus musc	7885.73	36849.97	37685.79

chr2	13661	BC005520	Ehf	Mus musc	62.4984	311.475	275.4355
chr11	629970	XM_89500	Gm11709	PREDICT	169.8054	748.0935	777.1641
chr6	12922	U17858	Crhr2	Mus musc	60.5224	266.5855	409.4044
chr1	16178	BC032962	Il1r2	Mus musc	97.7855	438.564	430.7095
chr15	18810	AF188015	Plec1	Mus musc	132.7995	584.4195	769.7015
chr14	13850	AK002415	Ephx2	Mus musc	425.8975	7064.422	1873.316
chr16	107589	BC038902	Mylk	Mus musc	56.0756	319.634	485.962
chr2	22259	AJ132601	Nr1h3	Mus musc	310.6054	3173.004	1365.334
chr7	60594	BC028751	Capn12	Mus musc	73.1272	942.575	1070.804
chr5	16369	BC098235	Irs3	Mus musc	32.1574	439.9795	174.9475
chr12	628900	XM_89370	Gm6930	PREDICT	48.2093	237.5035	211.4515
chr3	14469	BC032882	Gbp2	Mus musc	213.0515	1445.623	934.4424
chr7	101772	BC006062	Ano1	Mus musc	116.2935	570.9875	509.5875
chr10	12142	AK133503	Prdm1	Mus musc	306.6255	2232.441	2711.968
chr7	13400	BC075715	Dmpk	Mus musc	1185.419	5187.394	5775.648
chr4	381530	BC092096	Mup20	Mus musc	37.7593	591.5175	165.1356
chr1	226421	AK079999	5430435G	Mus musc	863.1075	3770.59	4213.37
chr9	16716	BC156644	Ky	Synthetic	720.0292	3172.768	4577.609
chr17	66705	BC106188	Dnase1l2	Mus musc	193.8915	1040.909	1178.1
chr11	17001	BC038518	Ltc4s	Mus musc	56.9327	325.2675	248.4295
chr7	76942	BC107186	Lypd5	Mus musc	600.3295	4064.988	3967.921
chr3	22724	AK155784	Zbtb7b	Mus musc	1798.902	8976.193	7832
chr14	108670	BC020120	Epsti1	Mus musc	184.9815	804.4815	851.0637
chr13	68024	BC019673	Hist1h2bc	Mus musc	1420.882	7641.102	6168.938
chr8	69550	BC056638	Bst2	Mus musc	578.5453	2897.27	2510.888
chr15	68070	AK159017	Pdzd2	Mus musc	89.5372	455.4235	388.4734
chr1	78321	BC022973	Ankrd23	Mus musc	471.7135	2046.592	2421.284
chr12	319565	AK052521	Syne2	Mus musc	21.043	91.2515	130.6855
chr10	67112	AK010054	Fgf22	Mus musc	263.1255	1140.382	1239.938
chrX	17772	AK149997	Mtm1	Mus musc	28.1505	121.9295	125.7215
chr1	19250	AK086524	Ptpn14	Mus musc	84.9489	367.8271	425.5575
chr7	56312	BC002109	Nupr1	Mus musc	761.9415	4258.578	3297.772
chr16	209200	BC085093	Dtx3l	Mus musc	143.4215	620.6275	687.1455
chr19	73656	AK075852	Ms4a6c	Mus musc	56.3651	251.0188	243.7335
chr4	69743	AK144492	Casz1	Mus musc	232.7805	1088.082	1006.487
chr15	18810	AF188007	Plec1	Mus musc	449.2455	2762.122	1941
chr1	15950	AK172303	Ifi203	Mus musc	9.4391	40.7741	44.1112
chr2	N/A	AK134490	N/A	Mus musc	67.9297	353.0115	293.3579
chr10	670895	XM_00147	Gm9508	PREDICT	28.355	150.6075	122.4275
chr5	23961	BC012877	Oas1b	Mus musc	90.4695	449.1615	390.4595
chr1	26904	BC117508	Sh2d1b1	Mus musc	11.2637	70.7816	48.5734
chr8	69550	BC087949	Bst2	Mus musc	473.8672	2427.706	2040.718
chr11	11670	AK144241	Aldh3a1	Mus musc	39.9919	185.0892	172.174
chr19	14102	AK086933	Fas	Mus musc	12.7423	54.8545	61.1391
chr6	77042	BC125402	Hyal4	Mus musc	7.3824	31.7727	62.1212
chr5	665270	AK015993	Plb1	Mus musc	19.1694	136.7203	170.4855
chr2	24136	AJ535778	Zeb2	Mus musc	28.6937	123.3495	150.6075
chr9	74249	BC156356	Lrrc2	Synthetic	112.4095	482.9114	555.9415
chr11	380698	BC044882	Obscn	Mus musc	429.2255	1843.546	2841.008
chr2	16184	BC114437	Il2ra	Mus musc	7.5723	32.5129	44.513
chr2	16169	AY221616	Il15ra	alt 'AA690	310.8612	2392.244	1334.014
chr2	67512	BC125530	Agpat2	Mus musc	1077.733	14710.78	4618.044
chr3	99712	BC021753	Cept1	Mus musc	41.7035	272.6305	178.6355

chr17	12263	BC011086	C2	Mus musc	153.1839	656.1526	815.2594
chr6	93694	BC106776	Clec2d	Mus musc	57.2086	303.3699	244.9755
chrX	54630	AK079845	Prickle3	Mus musc	196.4875	901.0375	839.8877
chr7	320878	AK053370	Mical2	Mus musc	584.4195	2495.776	2726.206
chr11	71489	AK053124	8430403D	Mus musc	11.6609	50.4734	49.7196
chr11	237625	BC079556	Pla2g3	Mus musc	84.1246	358.6255	445.5355
chr6	231991	AK052230	Creb5	Mus musc	32.0674	136.6915	207.9855
chr14	93732	BC021339	Acox2	Mus musc	15.4039	65.6229	73.9055
chr4	207920	AK042164	Esrp1	Mus musc	14.6265	62.2384	79.0195
chr5	N/A	AK214072	N/A	Mus musc	142.3551	604.2475	638.2675
chr8	234072	BC063759	Adprhl1	Mus musc	328.1835	2478.746	3061.218
chr10	16773	AK042011	Lama2	Mus musc	471.7575	2002.168	2975.16
chr10	1E+08	XM_00147	Gm3238	PREDICT	165.3275	1058.954	700.1467
chr16	210126	AK051937	Lpp	Mus musc	36.4247	154.0795	200.5075
chr12	328059	BC148549	Slc7a15	Synthetic	9.0556	38.2938	50.9384
chrX	57385	BC119206	P2ry4	Mus musc	169.0406	944.4988	1062.369
chr16	239849	BC131946	Cd200r4	Mus musc	33.4437	141.11	319.0552
chr15	671535	AK046755	Parp10	Mus musc	234.3166	1365.252	985.1414
chr9	12363	BC061255	Casp4	Mus musc	60.9548	256.1018	336.3115
chr16	408196	BC146444	Gm5416	Synthetic	35.872	510.0704	492.5255
chr10	N/A	AK029503	N/A	Mus musc	14.6852	110.0026	148.1359
chr8	71903	BC117743	2310038E	Mus musc	98.7015	4052.82	3275.706
chr4	230718	NM_00108	Nt5c1a	Mus musc	17.3801	83.6315	120.0971
chr7	235854	BC115741	Mrgpra4	Mus musc	8.8174	52.2478	78.4315
chr11	52570	BC096763	Ccdc69	Mus musc	290.5114	3047.284	2238.521
chr19	26930	BC152716	Ppnr	Synthetic	175.5589	733.9615	797.0769
chr11	71522	BC055837	Ggt6	Mus musc	32.591	136.1615	158.8155
chr17	638247	AK037113	9530082P2	Mus musc	79.2215	508.458	330.6555
chr5	100702	BC007143	Mpa2l	Mus musc	35.0811	221.9218	146.4175
chr10	70574	AK017670	Cpm	Mus musc	816.4935	3407.133	3486.036
chr3	17261	S68895	Mef2d	alt 'C8075	377.1155	1632.618	1573.156
chr16	16155	AK040938	Il10rb	Mus musc	32.9003	155.5935	137.1655
chr2	64899	BC026729	Lpin3	Mus musc	229.2615	1097.298	954.0035
chr3	66371	BC020394	Chmp4c	Mus musc	224.4255	1018.544	933.3695
chr17	N/A	AK004226	N/A	Mus musc	197.2315	835.2675	820.2715
chr11	66528	BC065414	2210020M	Mus musc	36.2589	150.7575	152.503
chr6	12390	BC023095	Cav2	Mus musc	1002.004	5042.512	5459.525
chr18	225341	BC010816	Lims2	Mus musc	262.5775	1671.872	1091.326
chr2	16803	BC004795	Lbp	Mus musc	302.2343	1255.852	1609.454
chr16	21380	AF349658	Tbx1	Mus musc	145.745	604.9975	869.9575
chr8	72361	BC027185	2210023G	Mus musc	564.7835	9348.826	9519.736
chr15	12984	BC156826	Csf2rb2	Synthetic	430.8277	1787.746	2573.068
chr11	16667	BC132454	Krt17	Mus musc	4727.695	19610.89	20383.66
chr11	11754	BC080857	Aoc3	Mus musc	1653.424	19060.75	17294.35
chr7	26365	BC016891	Ceacam1	Mus musc	27.7501	178.7075	127.6555
chr11	80861	BC029209	Dhx58	Mus musc	160.2515	825.2075	663.1455
chr2	1E+08	AK039436	Uckl1os	Mus musc	239.0704	988.1395	1214.848
chr1	68428	NM_00108	Steap3	Mus musc	724.083	3043.003	2990.084
chr7	13400	S60314	Dmpk	alt 'DM#D	1023.144	4222.619	5368.918
chr8	13214	BC024380	Defb1	Mus musc	392.0915	1760.605	1618.168
chr5	12491	AK172162	Cd36	Mus musc	2645.358	15593.15	10910.57
chr5	12491	AK151355	Cd36	Mus musc	3620.724	24120.48	16284.97
chr18	269016	AK033601	Sh3rf2	Mus musc	687.6115	2832.142	3072.928

chr6	209086	XM_62028	Samd9l	PREDICT	177.4375	730.7235	941.8691
chr4	18628	AK036345	Per3	Mus musc	10.0677	47.5383	41.4584
chr8	664808	XM_97281	Gm7349	PREDICT	23.2882	439.4075	391.1561
chr10	70574	XM_99461	Cpm	PREDICT	502.232	2064.642	2428.626
chr2	12335	AF127766	Capn3	alt 'Al3236	358.6378	2081.564	3100.694
chr16	210126	AK045341	Lpp	Mus musc	28.3032	116.0291	138.1375
chr7	21957	L49467	Tnnt3	Mus musc	6371.476	26117.81	33627.57
chrX	66106	AK009857	Smpx	Mus musc	334.8695	1370.516	1878.554
chr12	319660	BC146355	Tmem195	Synthetic	41.5512	969.4215	170.0235
chr11	217203	AK152741	Tmem106a	Mus musc	271.2975	1109.961	1122.697
chrX	434769	BC100366	Rhox10	Mus musc	15.2762	83.3226	128.9915
chr2	65964	AK087363	B230120H	Mus musc	18.0804	73.9095	81.892
chr2	320664	BC117858	Cass4	Mus musc	70.7412	288.8555	342.769
chr11	69640	AK077262	Fam83g	Mus musc	40.0646	173.82	163.4315
chr7	21957	L48989	Tnnt3	Mus musc	6241.695	25450.6	27639.76
chr14	13850	BC015087	Ephx2	Mus musc	544.1175	8603.11	2293.91
chr2	12162	AK020411	Bmp7	Mus musc	157.6325	829.7155	817.1255
chr16	624582	XM_89376	A730098P	PREDICT	13.5149	55.0343	85.5055
chr2	59091	BC022635	Jph2	Mus musc	1048.444	4269.156	5352.904
chrX	170744	BC132054	Tlr8	Mus musc	49.422	201.1579	249.6855
chr8	69627	BC115734	Fam89a	Mus musc	206.0602	915.5755	838.4595
chr19	26358	BC046315	Aldh1a7	Mus musc	527.0395	5813.53	5255.986
chr15	N/A	AK138921	N/A	Mus musc	138.5335	784.7041	854.8735
chr5	15442	AK087283	Hpse	Mus musc	317.301	1289.216	1403.406
chr8	17748	BC036990	Mt1	Mus musc	1122.718	4904.351	4560.1
chr7	13400	BC024150	Dmpk	Mus musc	1112.484	4515.746	5753.75
chr13	1E+08	XM_00147	Gm2589	PREDICT	12.2349	83.6719	49.6176
chr7	245190	XM_48632	Gm4980	PREDICT	339.2803	1374.362	2135.946
chr16	80285	BC003281	Parp9	Mus musc	580.1884	2667.44	2348.29
chrX	68117	AK028953	Apool	Mus musc	18.1039	73.2675	91.0875
chr4	194231	BC113805	Cnksr1	Mus musc	579.9035	2345.718	2441.798
chr10	73914	BC120829	Irak3	Mus musc	488.4992	2049.394	1974.062
chr16	209200	AK090152	Dtx3l	Mus musc	23.7253	107.9067	95.7982
chr5	100702	BC057969	Mpa2l	Mus musc	123.1935	817.1995	497.3403
chr2	17996	NM_01088	Neb	Mus musc	2141.046	8640.16	12731.62
chr2	12335	BC139790	Capn3	Mus musc	304.8729	1710.606	2371.66
chr7	11875	U60881	Art5	Mus musc	22.4686	90.6081	97.0635
chr16	66561	BC115655	2310042E2	Mus musc	1886.342	7600.794	7943.291
chr11	76184	BC132417	Abca6	Mus musc	248.8827	1002.44	1185.984
chr5	100689	BC017616	Spon2	Mus musc	732.8955	2951.382	3515.158
chr6	50530	BC025131	Mfap5	Mus musc	1493.052	7502.272	6010.728
chr17	225049	AK153704	Ttc7	Mus musc	51.1639	205.9147	223.4375
chr3	213121	BC145750	Ankrd35	Mus musc	877.0775	3670.385	3529.7
chr11	12299	BC099482	Cacng1	Mus musc	838.6695	7357.688	8534.506
chr3	213121	AK046624	Ankrd35	Mus musc	880.0495	3643.932	3532.612
chr9	80901	BC096491	Cxcr6	Mus musc	18.6983	75.0455	84.6795
chr14	380928	AK164481	Lmo7	Mus musc	19.6617	78.8255	123.9815
chr1	78321	BC132370	Ankrd23	Mus musc	375.6135	1504.813	1747.076
chr1	74591	AK076440	Abca12	Mus musc	26.2714	105.173	106.2735
chr19	226251	AK041356	Ablim1	Mus musc	96.3475	521.8395	385.6335
chr17	16912	BC116364	Psmb9	Mus musc	101.8215	473.2975	407.2281
chr1	14125	BC125455	Fcer1a	Mus musc	8.2639	73.0576	135.1335
chr15	16185	BC026869	Il2rb	Mus musc	93.7595	373.9635	388.2075

chr11	216858	BC052502	Kctd11	Mus musc	624.6039	3677.702	3944.365
chr2	19224	BC023322	Ptgs1	Mus musc	1986.624	9416.32	7919.756
chr7	20514	BC037462	Slc1a5	Mus musc	2898.271	17870.7	11552.52
chr13	77398	AK020556	9530014B0	Mus musc	10.1898	72.1836	63.3022
chr14	11744	AK086039	Anxa11	Mus musc	52.0521	273.397	207.2935
chr2	18019	AK135414	Nfatc2	Mus musc	28.0092	111.5335	140.7149
chr3	14263	AK133675	Fmo5	Mus musc	103.1971	426.3335	410.4609
chrX	14199	BC031120	Fhl1	Mus musc	3317.678	13189.28	15043.99
chr7	12489	AK170937	Cd33	Mus musc	215.7215	856.1155	859.1635
chr3	20762	BC156163	Sprr2h	Synthetic	27.717	3655.076	3604.482
chr11	217333	BC080731	Trim47	Mus musc	435.4155	1726.248	2054.133
chr12	77974	BC067213	Rdh12	Mus musc	180.245	862.4767	938.3935
chr8	17748	BC027262	Mt1	Mus musc	1170.782	4736.432	4633.764
chr19	72498	AK011408	2610016A	Mus musc	27.3719	203.1397	142.5895
chr13	319182	BC092138	Hist1h2bh	Mus musc	32.591	159.1489	128.7615
chr7	668139	AK172683	Gm8995	Mus musc	138.7946	638.5755	548.2004
chr4	68777	AK005885	Tmem53	Mus musc	278.7075	1616.636	1100.442
chr8	257632	DQ289013	Nod2	alt 'ACUG	42.0343	165.9601	186.6155
chr1	17528	AK157960	Mpz	Mus musc	330.0659	1300.79	1597.9
chr6	320502	BC127157	Lmod3	Mus musc	823.5695	4170.31	5219.491
chr11	214384	AK084700	Myocd	Mus musc	30.5068	188.1975	334.1735
chr15	71939	AK144563	Apol6	Mus musc	48.5149	348.2595	190.8955
chr19	73656	BC062247	Ms4a6c	Mus musc	76.0395	299.0095	299.1107
chr15	213956	BC016600	Fam83f	Mus musc	505.5155	1981.596	2138.068
chr13	353346	BC125585	Gpr141	Mus musc	39.4669	154.5835	154.8315
chr3	320832	AB112025	Sirpb1	Mus musc	25.2192	124.3035	98.7455
chr2	329562	AK040674	A530013C	Mus musc	19.418	77.4415	75.9375
chrX	170743	BC120596	Tlr7	Mus musc	31.207	121.7435	126.8311
chr15	631797	XM_97731	Fer1l6	PREDICT	44.5266	185.1895	225.4132
chr17	21425	BC064789	Tcfef	Mus musc	918.2315	3681.012	3576.336
chr17	21425	AK154971	Tcfef	Mus musc	880.7695	3527.114	3587.092
chr11	217203	BC033268	Tmem106a	Mus musc	209.5415	815.2715	814.1295
chr19	666907	XM_98694	Ms4a4a	PREDICT	442.0675	2079.712	1716.958
chr11	20698	AK028667	Sphk1	Mus musc	45.5224	188.7807	176.7815
chr17	16913	BC051450	Psmb8	Mus musc	287.2855	1297.836	1115.604
chr7	244183	AK162946	A530023O	Mus musc	8.1355	52.3636	31.5878
chr19	66607	BC069842	Ms4a4d	Mus musc	116.1935	451.0595	520.1909
chr18	73915	AK014726	4833419F2	Mus musc	18.1213	73.0356	78.6795
chr3	319192	BC062255	Hist2h2aa2	Mus musc	1083.772	4525.858	4202.582
chr1	394430	BC089569	Ugt1a10	Mus musc	1290.104	6913.326	5311.4
chr9	252837	AY072796	Ccr11	Mus musc	183.1112	838.0045	709.5575
chr2	208618	AK054453	Etl4	Mus musc	75.8587	293.9255	306.2721
chr17	15013	AB359227	H2-Q2	Mus musc	9.751	37.7792	39.9306
chr7	20514	BC029873	Slc1a5	Mus musc	2601.031	14166.13	10064.11
chr10	212862	BC016251	Chpt1	Mus musc	15.6427	119.4375	60.5869
chr3	22724	AK171443	Zbtb7b	Mus musc	1593.776	8639.692	6163.454
chr8	75767	BC125400	Rab11fip1	Mus musc	1180.82	4565.554	4588.494
chr2	71405	BC113797	Fam83c	Mus musc	444.984	2070.114	2035.16
chr2	16169	AY219715	Il15ra	Mus musc	354.9755	2752.484	1368.467
chr14	66175	BC116939	Mustn1	Mus musc	1222.408	4708.544	5531.14
chr9	13076	BC125440	Cyp1a1	Mus musc	16.2071	82.8404	62.4144
chr7	21957	AK003147	Tnnt3	Mus musc	6049.189	23293.57	28613.13
chr19	73458	AK081788	1700055N	Mus musc	23.6157	426.3455	407.5375

chr10	71371	AK031596	Arid5b	Mus musc	64.4801	248.2235	272.7972
chr11	217012	AF539793	Unc45b	Mus musc	433.7175	1669.22	1941.949
chr10	23887	BC051971	Ggt5	Mus musc	62.6683	243.0875	241.1377
chr5	626578	BC114209	Gbp10	Mus musc	131.7935	833.5715	507.1015
chr2	21420	AK145603	Tcfap2c	Mus musc	414.8012	1594.944	2106.766
chr6	68487	BC020080	Tmem140	Mus musc	150.6755	993.8934	579.0855
chr5	15945	BC030067	Cxcl10	Mus musc	91.2963	488.7495	350.8155
chr11	16145	BC132557	Igtp	Mus musc	606.8235	2589.15	3057.908
chr17	N/A	AK134158	N/A	Mus musc	49.3981	213.2849	189.5404
chrX	58861	BC027102	Cysltr1	Mus musc	56.7745	224.4015	217.7384
chr17	68468	BC116365	Ly6g6c	Mus musc	5470.36	20967.79	24736.87
chr4	1E+08	NM_01578	Isg15	Mus musc	254.3271	1465.228	974.477
chr18	N/A	AK085972	N/A	Mus musc	27.8874	106.7835	107.6173
chr14	497106	BC146014	Rnase12	Mus musc	16.5977	116.3015	136.3149
chr15	18591	AK087840	Pdgfb	Mus musc	159.3395	690.0805	609.4495
chr11	20528	AK138832	Slc2a4	Mus musc	35.6796	287.7355	141.6212
chr16	22061	AK140023	Trp63	Mus musc	332.4355	1281.442	1497.724
chr2	16420	AK008867	Itgb6	Mus musc	26.3251	100.5995	111.7956
chr14	192187	AK087634	Stab1	Mus musc	82.3095	314.5235	399.4335
chr17	16913	BC013785	Psm8	Mus musc	355.7924	1358.546	1467.587
chr5	231507	BC010789	Plac8	Mus musc	368.4095	2184.468	1406.698
chr1	236312	BC107378	Pyhin1	Mus musc	21.2479	120.3652	81.0755
chr11	217069	BC034276	Trim25	Mus musc	499.5642	2014.036	1905.57
chr8	53318	AK164054	Pdlim3	Mus musc	99.7799	542.9255	778.6735
chr6	109218	BC096053	Tmem139	Mus musc	86.5815	350.2533	329.9715
chr4	1E+08	BC031424	Isg15	Mus musc	339.0955	1859.516	1290.96
chr2	19419	BC057120	Rasgrp1	Mus musc	111.4775	424.3015	499.2155
chr14	1E+08	XM_00147	Gm9780	PREDICT	721.2675	3067.186	2744.535
chr7	56188	AF089734	Fxyd1	Mus musc	56.545	215.0692	236.2475
chr15	75772	AK014771	Pnpla5	Mus musc	16.0842	61.1587	66.2379
chr9	56857	BC063326	Slc37a2	Mus musc	838.3035	3367.582	3992.868
chr3	20193	BC005590	S100a1	Mus musc	167.0288	2780.138	634.8182
chr15	73600	AK007210	1700120C	Mus musc	133.6682	507.9495	608.3217
chr4	272027	BC057893	Tstd2	Mus musc	636.1175	2417.258	2547.926
chr15	239559	AK162529	A4galt	Mus musc	296.5054	1311.408	1550.762
chr3	229488	BC094511	Fam160a1	Mus musc	672.8415	2667.587	3197.014
chr6	78781	AK143568	Zc3hav1	Mus musc	57.1689	217.1901	255.5515
chr19	17060	BC059785	Blnk	Mus musc	227.8515	935.662	865.4255
chr6	50909	AK138817	C1ra	Mus musc	71.0256	269.5875	306.4995
chr17	26415	BC001992	Mapk13	Mus musc	1536.128	5829.008	6780.084
chr5	100705	AK147463	Acacb	Mus musc	327.5775	6235.779	1242.452
chr1	94284	AY227197	Ugt1a6a	Mus musc	1346.176	6130.671	5521.902
chr7	18726	BC127613	Pira3	Mus musc	73.2675	347.4555	277.8035
chr1	16331	NM_00111	Inpp5d	Mus musc	224.855	852.1615	1312.71
chr17	68468	BC116366	Ly6g6c	Mus musc	5995.627	22718.91	23438.28
chr2	59010	AK016166	Sqrdl	Mus musc	64.4773	422.9695	244.1111
chr14	668253	AK139063	Dleu2	Mus musc	408.329	1545.772	1682.696
chr8	664818	XM_97285	Gm7354	PREDICT	57.882	1004.518	810.3995
chr7	434223	AK172128	Gm1966	Mus musc	324.5033	1338.736	1227.648
chr14	1E+08	XM_00147	Gm3600	PREDICT	9.5213	40.8709	37.3097
chr14	11752	BC030407	Anxa8	Mus musc	2804.696	10714	10602.1
chr3	17306	AK052749	Syp12	Mus musc	58.4161	220.7795	258.2735
chr2	N/A	BC002288	N/A	Mus musc	156.8226	619.1555	592.5495

chr14	319476	BC051461	Lrtm1	Mus musc	205.62	832.7115	776.2955
chr2	16420	AF115376	Itgb6	Mus musc	483.1795	1823.486	2105.848
chr6	12390	AB049605	Cav2	Mus musc	182.9831	727.3143	690.5275
chr7	57444	AK008353	Isg20	Mus musc	151.3235	831.2285	570.3875
chr1	94284	BC069940	Ugt1a6a	Mus musc	1270.016	6492.64	5265.922
chr19	78753	BC031933	Lipm	Mus musc	588.3955	2216.174	2539.866
chr7	320878	AK163231	Mical2	Mus musc	158.8075	664.9354	597.5766
chr8	20288	BC003814	Msr1	Mus musc	258.1517	1049.184	976.1021
chr7	78388	BC006709	Mvp	Mus musc	1051.878	5127.18	3954.604
chr4	68625	BC062805	Wdr65	Mus musc	300.8775	1465.83	1498.146
chr8	67620	BC051150	Lrp2bp	Mus musc	20.9335	87.1075	155.2375
chr5	70717	AK053969	633040611	Mus musc	58.6337	220.2895	256.7035
chr2	11602	BC129965	Angpt4	Mus musc	45.5658	253.9095	366.9715
chr11	12450	BC005534	Ccng1	Mus musc	1460.738	5486.73	6115.702
chr1	109019	BC095967	Obfc2a	Mus musc	267.497	1599.89	1004.373
chr4	433766	BC156343	Trim63	Synthetic	281.3795	1056.488	1504.432
chrX	58861	AF263370	Cysltr1	Mus musc	141.6715	635.7259	531.8935
chr4	74183	BC117871	2310042D	Mus musc	659.1585	3645.331	2474.457
chr13	17952	AF135494	Naip6	Mus musc	14.3381	53.8191	62.563
chr14	1E+08	XM_00147	Gm2274	PREDICTI	2153.37	8079.46	8555.563
chr1	30935	BC052851	Tor3a	Mus musc	199.6275	748.0475	801.9115
chr11	76408	AK172420	Abcc3	Mus musc	67.9737	289.6115	371.0595
chr6	68487	BC023802	Tmem140	Mus musc	171.4531	1064.264	642.0775
chr3	13684	XM_00100	Eif4e	PREDICTI	59.2834	221.9955	252.4175
chr1	17901	BC059087	Myl1	Mus musc	131.4655	493.3555	491.2277
chr1	59125	AK078639	Nek7	Mus musc	11.6565	43.5226	63.0183
chr2	228366	AK081797	Gylt1b	Mus musc	82.3735	307.3535	350.0735
chr11	16672	BC125420	Krt34	Mus musc	23.0142	85.7295	85.8955
chr2	16169	AY219716	Il15ra	Mus musc	369.0975	2602.142	1374.008
chr2	17996	XM_13023	Neb	PREDICTI	2713.354	10096.81	11631.61
chr7	N/A	BC066039	N/A	Mus musc	1266.978	5794.77	4713.582
chr9	320528	AB281685	Vps13c	Mus musc	525.7451	2542.798	1955.652
chrX	N/A	AK158152	N/A	Mus musc	17.2628	64.0661	81.4903
chr8	13423	BC058609	Dnase2a	Mus musc	800.0826	3112.344	2968.23
chr17	328779	BC132520	Hs3st6	Mus musc	181.5095	673.0115	971.7283
chr1	1E+08	XM_00147	Gm2785	PREDICTI	40.693	150.8815	157.7235
chr5	107976	AK050695	Bre	Mus musc	19.6787	72.891	97.7943
chr1	241113	AK036585	Prkag3	Mus musc	164.2866	608.5064	932.8935
chr2	319876	AK052939	Cobll1	Mus musc	73.2187	363.3974	270.7515
chr10	675294	XM_00147	Gm9639	PREDICTI	89.0435	549.5035	329.2055
chr19	16530	BC106993	Kcnk7	Mus musc	130.4539	581.6475	482.2315
chr6	109292	AK076253	4631423B	Mus musc	279.3415	1074.282	1032.37
chr7	20216	BC015248	Acsm3	Mus musc	66.8918	557.6115	247.1323
chr6	269823	BC099416	Pon3	Mus musc	525.4915	4193.37	1939.969
chr15	66270	BC054415	Fam134b	Mus musc	1128.805	4235.746	4159.676
chr19	20249	BC055453	Scd1	Mus musc	4182.274	19849.27	15399.17
chr1	15064	BC026137	Mr1	Mus musc	585.9815	2681.072	3087.482
chrX	11835	AK037070	Ar	Mus musc	367.6176	1352.776	2234.899
chr9	71602	AK029145	Myo1e	Mus musc	19.5259	71.7696	100.6955
chr17	71932	BC145797	Ephx3	Mus musc	331.786	1219.175	1345.968
chr19	14544	BC076583	Gda	Mus musc	61.8094	282.094	226.9615
chr19	22287	BC027518	Scgb1a1	Mus musc	26.6641	97.9035	131.4878
chr18	16149	BC096435	Cd74	Mus musc	603.5655	2215.95	2547.715

chr2	192200	BC030939	Wfdc12	Mus musc	17.7023	133.5095	133.8975
chr4	21916	BC106849	Tmod1	Mus musc	1349.176	7525.212	10335.02
chr1	665317	XM_97916	Gm7582	PREDICT	22.4197	256.2155	82.1951
chr6	73149	BC034893	Clec4a3	Mus musc	154.5496	566.5335	615.2282
chr1	109019	BC131923	Obfc2a	Mus musc	1374.82	7008.799	5035.482
chr1	12523	AK157075	Cd84	Mus musc	16.4849	60.377	64.5641
chr11	11754	AK040729	Aoc3	Mus musc	1046.691	9549.414	7782.028
chr3	320832	AK154879	Sirpb1	Mus musc	10.9383	48.0984	40.0156
chr5	12491	BC010262	Cd36	Mus musc	4049.452	23976.99	16575.31
chr1	64095	NM_00110	Gpr35	Mus musc	20.5303	75.0268	89.0595
chr3	19220	BC064794	Ptgr	Mus musc	262.7675	1129.546	2370.605
chr11	192897	AK048888	Itgb4	Mus musc	23.5641	114.6655	86.0032
chr16	625060	XM_88960	Gm6551	PREDICT	1164.879	4697.162	4250.67
chr11	192897	AK142648	Itgb4	Mus musc	90.6555	400.5675	330.6964
chr8	11513	AK155646	Adcy7	Mus musc	1450.84	5291.396	7071.492
chr10	16773	AK220480	Lama2	Mus musc	1788.334	7357.38	12098.62
chr1	12506	BC060977	Cd48	Mus musc	339.7328	1238.61	1350.634
chr14	380916	AK161894	Lrch1	Mus musc	36.9937	134.6475	148.1113
chr12	1E+08	XM_00147	Gm3067	PREDICT	12.2388	44.543	48.7202
chr19	68774	BC018331	Ms4a6d	Mus musc	155.2455	564.4539	584.1295
chr14	16427	BC092258	Itih4	Mus musc	10.2811	590.7635	291.5281
chr7	13009	Z49883	Csrp3	M.musculi	2057.949	10844.97	12253.21
chr11	67131	AK183793	Acbd4	Mus musc	260.9775	1941.768	947.7955
chr14	11750	AK041855	Anxa7	Mus musc	25.9493	103.9935	94.1717
chr1	381272	XM_00147	A630095N	PREDICT	40.8788	154.0795	148.306
chr14	210808	AK053693	9030625A	Mus musc	96.9537	411.0895	351.7175
chr7	272428	AK050404	Acsm5	Mus musc	11.5157	124.0755	76.0715
chr17_ranc	68655	AK220427	Fndc1	Mus musc	684.0015	3094.388	3540.852
chr9	320112	AK048946	9330161A	Mus musc	368.9991	1337.261	1500.29
chr10	71733	BC026837	Susd2	Mus musc	1125.691	4079.347	4103.978
chr11	53313	BC026147	Atp2a3	Mus musc	474.1955	1717.874	2008.89
chr7	67765	AK148045	5830432E	Mus musc	33.2305	120.2995	132.5119
chr2	16420	AK036439	Itgb6	Mus musc	513.0075	1856.648	2156.586
chr17	18188	BC057993	Nrtn	Mus musc	151.128	546.5486	667.3628
chr7	12489	BC132379	Cd33	Mus musc	217.8195	787.6075	900.2175
chrX	17698	AK087001	Msn	Mus musc	28.9351	115.7975	149.3775
chr5	16599	DQ981866	Klf3	Mus musc	469.7741	1815.94	1698.148
chr15	N/A	AK139359	N/A	Mus musc	138.0015	961.3109	1190.766
chr13	70405	BC005457	Calml3	Mus musc	697.3144	6710.432	6340.039
chr13	50708	BC089604	Hist1h1c	Mus musc	2011.994	11657.14	9850.616
chr14	11744	BC012875	Anxa11	Mus musc	2340.616	8451.593	9363.315
chr14	328417	XM_99428	Parp4	PREDICT	547.6475	2006.284	1977.215
chrX	83453	BC066832	Chrdl1	Mus musc	354.1998	1278.746	1597.889
chr13	15216	BC116744	Hfe	Mus musc	605.0575	2442.82	2182.404
chr9	53867	AB040491	Col5a3	Mus musc	63.8333	306.0386	229.9495
chr5	80885	BC120715	Niacr1	Mus musc	183.1564	1108.384	659.6842
chr7	20352	AK028896	Sema4b	Mus musc	34.0868	126.464	122.7275
chr13	12763	NM_00111	Cmah	Mus musc	179.4635	833.3355	645.8712
chr10	320398	AK137007	Lrig3	Mus musc	164.9732	593.4355	713.8661
chr2	381417	NM_00108	Gm14085	Mus musc	52.6685	656.1495	189.4275
chr8	16477	BC003790	Junb	Mus musc	1435.02	5159.667	5479.732
chr1	74591	AF420436	Abca12	Mus musc	1623.431	5927.098	5835.859
chrX	13058	AK153180	Cybb	Mus musc	192.9775	693.3555	740.8415

chr2	14118	AK046621	Fbn1	Mus musc	295.8735	1284.404	1062.274
chr6	16439	AK169446	Itpr2	Mus musc	69.8676	471.4415	250.8195
chr14	1E+08	XM_00147	Gm2260	PREDICTI	2303.273	8424.086	8876.744
chr19	226101	AK041571	Myof	Mus musc	23.0121	82.5715	93.7955
chr14	66597	AK162129	Trim13	Mus musc	13.9163	64.3401	74.1082
chr7	N/A	AK184777	N/A	Mus musc	1600.111	6758.725	5734.87
chr9	11796	BC011338	Birc3	Mus musc	62.7967	225.0657	241.9715
chr8	16477	BC092302	Junb	Mus musc	1427.348	5114.396	5613.005
chr16	11504	BC050834	Adamts1	Mus musc	525.3015	1882.036	2278.308
chr1	107527	BC117797	Il1rl2	Mus musc	562.0931	2013.388	2036.682
chr14	1E+08	XM_00148	Gm4653	PREDICTI	221.0195	834.8055	818.5055
chr1	109019	AK077767	Obfc2a	Mus musc	1360.03	6896.9	4866.519
chr1	21961	AK137923	Tns1	Mus musc	44.1112	228.3475	157.8355
chr1	71386	XM_89650	Krtap28-13	PREDICTI	9.8293	40.6515	35.1392
chr9	64008	AK154151	Aqp9	Mus musc	101.4955	403.5523	362.8267
chr7	94094	AF220140	Trim34	Mus musc	30.0035	144.5135	107.1918
chrX	13058	BC071229	Cybb	Mus musc	314.7995	1166.124	1124.142
chr11	67131	BC048371	Acbd4	Mus musc	205.0555	1346.311	731.9115
chr1	12477	BC052683	Ctla4	Mus musc	28.2463	105.7515	100.7552
chr3	12870	BC062957	Cp	Mus musc	197.031	1259.666	702.7455
chr8	11513	BC057682	Adcy7	Mus musc	1032.494	3673.7	4576.694
chr8	11513	BC115833	Adcy7	Mus musc	1400.15	4978.07	6230.47
chr7	108116	AK031280	Slco3a1	Mus musc	112.2395	398.8835	429.6475
chr12	20704	BC061176	Serpina1e	Mus musc	16.1072	57.2246	211.176
chr2	16420	AK019511	Itgb6	Mus musc	353.3903	1254.876	1384.03
chr1	23956	BC105657	Neu2	Mus musc	34.9155	123.9535	209.4714
chr10	11630	AK144358	Aim1	Mus musc	267.5335	949.7293	1044.736
chr17_ranc	N/A	AK029312	N/A	Mus musc	93.3384	330.8475	410.9675
chr7	18727	NM_01109	Pira4	Mus musc	167.4115	700.3175	592.6735
chr7	16855	BC021632	Lgals4	Mus musc	281.2415	1919.721	995.4435
chr7	60594	NM_00111	Capn12	Mus musc	21.0021	100.8595	126.9155
chr18	14465	AK053151	Gata6	Mus musc	29.3871	103.8415	152.1455
chr18	12978	AK041299	Csf1r	Mus musc	22.1254	78.1767	87.352
chr10	78977	BC114993	Popdc3	Mus musc	484.0755	1927.98	2383.765
chr18	19201	BC057654	Pstpip2	Mus musc	746.6495	2636.864	2964.744
chr2	N/A	AK041888	N/A	Mus musc	99.8435	352.4235	489.5036
chr2	241274	AK038505	Pnpla7	Mus musc	96.3475	373.3535	340.042
chr13	68750	BC080680	Rreb1	Mus musc	189.4936	714.2795	668.7294
chr15	1E+08	XM_00147	Ccdc152	PREDICTI	44.6559	157.5835	180.5115
chr5	23960	BC043339	Oas1g	Mus musc	13.5149	52.0737	47.6719
chr16	268905	BC027551	Krtap13-1	Mus musc	12.0596	42.4568	46.3889
chr7	20866	AK086594	Stim1	Mus musc	58.271	255.7755	204.8895
chr4	381530	BC089613	Mup20	Mus musc	29.4748	581.7828	103.5295
chr3	118449	AK079194	Synpo2	Mus musc	40.1376	140.8515	279.9189
chr17	14961	BC010322	H2-Ab1	Mus musc	187.4575	657.3804	799.3095
chr9	N/A	AK153376	N/A	Mus musc	12.3707	44.3062	43.335
chr18	626275	XM_00147	A930012L1	PREDICTI	40.8788	180.2835	143.1595
chr10	67112	BC119135	Fgf22	Mus musc	149.7737	598.5535	550.3222
chr5	63873	AK158652	Trpv4	Mus musc	163.4075	571.8515	763.1935
chrX	11835	BC148496	Ar	Synthetic	393.7015	1376.676	2179.104
chr1	69565	XM_00147	2310015K2	PREDICTI	69.7576	243.8975	280.7821
chr3	84111	BC125653	Gpr87	Mus musc	313.9628	1159.05	1097.534
chr6	66857	BC019793	Plbd1	Mus musc	1824.797	7659.428	6377.742

chr11	20306	BC061126	Ccl7	Mus musc	107.987	377.3515	397.2775
chr7	170460	BC058226	Stard5	Mus musc	1183.781	4228.69	4136.172
chr11	20850	BC013274	Stat5a	Mus musc	580.6735	2825.008	2028.721
chrX	353170	AK134415	4932441K	Mus musc	25.2207	88.1095	119.9635
chr12	112407	BC058278	Egln3	Mus musc	429.3675	2882.736	3162.753
chr2	1E+08	XM_00148	Gm14010	PREDICT	129.2476	620.5975	493.9015
chr7	56188	AK003504	Fxyd1	Mus musc	111.283	460.9475	388.1187
chr3	242248	BC026932	Bank1	Mus musc	266.6904	939.5595	927.9998
chr4	230738	AK163109	Zc3h12a	Mus musc	21.939	83.2091	76.2535
chr11	69674	BC055812	Mif4gd	Mus musc	30.8481	204.4695	107.1632
chr5	1E+08	XM_00147	Gm15411	PREDICT	39.0622	135.6783	170.1346
chr2	54448	AK224928	Il1f6	Mus musc	7.1055	124.9915	115.8641
chr11	83813	AK167292	Tnk1	Mus musc	38.1458	178.3295	132.4655
chr12	20717	BC011158	Serpina3m	Mus musc	33.9855	159.3416	117.9895
chr4	1E+08	XM_00147	Gm2703	PREDICT	17.8336	61.9062	69.5417
chr4	12819	BC156474	Col15a1	Synthetic	1848.837	10785.42	11677.13
chr6	22371	AK044921	Vwf	Mus musc	266.5575	1129.954	1524.747
chr13	74145	AK030914	F13a1	Mus musc	2529.18	8774.558	10859.71
chr2	622283	AK140896	Gm6307	Mus musc	100.927	350.1075	396.6215
chr1	14131	BC052819	Fcgr3	Mus musc	786.6152	2728.286	2954.637
chr2	21817	AK054108	Tgm2	Mus musc	14.6232	50.7109	63.5299
chr7	14344	BC145831	Fut2	Mus musc	306.8807	1063.264	1315.298
chr1	67313	AK017848	5730559C	Mus musc	76.4195	292.4076	264.5855
chr8	212989	BC019528	Best2	Mus musc	14.7793	92.1936	77.331
chr3	15107	AK148481	Hadh	Mus musc	54.0254	234.7533	186.8275
chr7	665304	XM_97598	Gm7578	PREDICT	32.9365	142.5855	113.79
chr11	245240	BC119805	9930111J2	Mus musc	49.7901	171.8875	178.8195
chr4	230806	AK165037	Aim1l	Mus musc	126.7995	558.7495	437.5596
chr11	76758	BC109335	Gsdma2	Mus musc	283.1855	1433.528	976.2975
chr5	53419	BC093485	Corin	Mus musc	41.536	152.0278	256.2735
chr11	69674	BC026740	Mif4gd	Mus musc	1106.993	5615.372	3812.28
chr7	20130	BC110562	Rras	Mus musc	1473.604	7185.854	7354.329
chr2	67856	BC054365	Echdc3	Mus musc	106.6355	1702.436	366.9715
chr19	225845	BC024581	Pla2g16	Mus musc	1248.182	9384.944	4292.79
chr19	109225	BC024402	Ms4a7	Mus musc	328.0637	1127.806	1161.454
chr7	18726	BC119598	Pira3	Mus musc	18.153	95.5275	62.386
chr17	15040	BC005648	H2-T23	Mus musc	399.8995	1546.739	1373.176
chr7	16855	BC011236	Lgals4	Mus musc	313.1735	2220.611	1075.094
chr7	545936	BC100485	Gm5893	Mus musc	11.3887	39.0819	57.3125
chr11	171285	BC106851	Havcr2	Mus musc	8.7254	29.9363	31.7036
chr10	66548	BC034843	Adamtsl5	Mus musc	196.4155	673.8852	802.5409
chr11	209588	AK170159	Sectm1a	Mus musc	56.6929	194.4919	199.1492
chr7	16535	BC045142	Kcnq1	Mus musc	112.4359	465.1615	487.8355
chr2	665700	XM_00147	Hmcn2	PREDICT	34.4803	118.2029	141.4615
chr19	N/A	AK158196	N/A	Mus musc	151.16	517.9922	635.9735
chr4	242509	AK031440	Bnc2	Mus musc	175.2255	609.5514	600.4565
chr12	19878	DQ864977	Rock2	alt 'B2301	314.7241	1684.934	2316.625
chr7	16890	AK019846	Lipe	Mus musc	105.1055	1272.726	359.9555
chr1	30935	AK009693	Tor3a	Mus musc	901.7795	3501.108	3087.994
chr4	12353	AK161216	Car6	Mus musc	172.8455	2747.954	2916.946
chr17	14158	AK157828	Fert2	Mus musc	33.4691	114.4135	168.2395
chr7	18729	NM_01109	Pira6	Mus musc	59.7652	230.6895	204.2255
chr16	22061	BC090649	Trp63	Mus musc	1612.984	5509.318	5931.184

chr2	12335	NM_00110	Capn3	Mus musc	376.2475	2011.2	2798.136
chr3	71862	BC116649	Gpr160	Mus musc	225.4105	882.3495	769.3275
chr1	226418	BC099948	Yod1	Mus musc	637.4595	2172.694	2486.154
chr3	68810	BC052878	Nexn	Mus musc	622.95	2123.166	2834.048
chr7	232943	AK158094	Klc3	Mus musc	649.8855	2313.432	2211.934
chr6	11746	BC055871	Anxa4	Mus musc	1553.794	5532.988	5283.332
chr15	19116	AK050317	Prlr	Mus musc	13.9482	98.3375	47.4109
chr12	75990	AK050516	5033421B0	Mus musc	76.0135	317.8627	258.3415
chr13	13024	BC028437	Ctla2a	Mus musc	347.4758	1354.058	1180.758
chr11	69602	AB087505	Otop3	Mus musc	149.8035	508.9635	556.5375
chr14	N/A	AK079958	N/A	Mus musc	12.228	51.3975	112.7539
chr6	23845	AK046600	Clec5a	Mus musc	47.6353	161.7315	203.3133
chr14	N/A	AK088911	N/A	Mus musc	11.3968	47.3762	38.6893
chr12	74251	BC023687	Ankrd9	Mus musc	258.6431	950.1615	894.4551
chr13	328329	AK044801	Mast4	Mus musc	166.4959	586.0235	564.9731
chr2	N/A	BC054063	N/A	Mus musc	2209.008	19545.4	7476.292
chr2	76051	AK017994	Ganc	Mus musc	96.9031	513.2908	327.9415
chr2	13830	BC003789	Stom	Mus musc	862.5535	3791.358	2918.722
chr5	70717	BC116246	633040611	Mus musc	664.5441	2247.834	2413.412
chr6	269799	BC049354	Clec4a1	Mus musc	283.3947	958.4375	1060.412
chr10	103511	BC025893	Fam26e	Mus musc	339.4248	1147.648	1429.589
chr5	245945	AK170082	Rbm47	Mus musc	437.4355	2840.626	1478.872
chr9	17281	BC156092	Fyco1	Synthetic (	2102.202	7544.124	7105.66
chr15	114566	BC108971	Krt82	Mus musc	39.5838	173.0695	133.7655
chr11	20308	BC145962	Ccl9	Mus musc	209.1955	995.6295	706.7775
chr1	394436	BC093516	Ugt1a1	Mus musc	1471.906	6753.228	4970.846
chr4	12259	BC002086	C1qa	Mus musc	1109.208	3955.761	3745.394
chr9	319742	NM_00109	Mpzi3	Mus musc	496.7063	1676.482	1943.08
chr11	69674	BC019515	Mif4gd	Mus musc	1154.966	6150.957	3897.484
chr11	11687	BC056625	Alox15	Mus musc	50.5332	170.4815	181.7295
chr17	14991	BC031984	H2-M3	Mus musc	204.3055	688.9715	715.4744
chr1	19250	AK086515	Ptpn14	Mus musc	52.4894	199.3135	176.9415
chr2	269344	BC045151	Eil3	Mus musc	336.0055	1130.36	1194.706
chr1	54354	BC089605	Rassf5	Mus musc	650.2555	2186.128	2491.869
chr11	67131	AK008207	Acbd4	Mus musc	201.0431	1118.126	675.8961
chr5	231287	BC099527	Atp10d	Mus musc	24.5468	82.502	83.1917
chr2	269356	BC111884	Slc4a11	Mus musc	248.9935	1157.458	1255.298
chr1	13849	BC029636	Ephx1	Mus musc	1301.64	4371.376	5006.373
chr6	16439	AK143206	Itpr2	Mus musc	741.5515	5573.514	2488.856
chr8	212989	AY450428	Best2	Mus musc	15.9156	96.8566	112.6175
chr6	107607	AK089662	Nod1	Mus musc	903.2215	3430.359	3028.417
chr11	N/A	AK184738	N/A	Mus musc	299.4395	1636.483	1003.134
chr14	328417	AK053992	Parp4	Mus musc	495.3915	1793.61	1659.184
chr4	387510	BC099376	lfnk	Mus musc	26.9068	98.0715	90.0881
chr9	17281	AK081259	Fyco1	Mus musc	385.1328	1417.228	1289.03
chr11	217333	BC055038	Trim47	Mus musc	478.0155	1829.487	2156.342
chr4	230073	AK087261	Ddx58	Mus musc	29.0694	135.8255	119.8975
chr11	66102	BC019961	Cxcl16	Mus musc	205.3415	718.6795	686.8276
chr9	102626	AK078977	Mapkapk3	Mus musc	57.5722	192.5532	215.2795
chr11	66809	BC057172	Krt20	Mus musc	28.662	133.6075	198.177
chr9	654800	AK033049	A730085K	Mus musc	64.5361	340.0555	288.3689
chr4	100342	BC038001	Fam46b	Mus musc	382.3695	1276.722	1465.736
chr16	210126	AK029335	Lpp	Mus musc	127.5766	463.7855	515.3495

chr1	545384	BC094916	BC094916	Mus musc	52.6592	300.7178	175.7195
chr9	72229	AK005635	1700003G	Mus musc	19.8423	66.1279	75.2315
chr12	319565	AK076294	Syne2	Mus musc	52.703	175.6134	203.1615
chr18	225288	AK046161	Fhod3	Mus musc	19.5404	65.074	94.9915
chr17	21425	AK078755	Tcfef	Mus musc	242.5065	820.5255	807.5704
chr7	12865	BC060974	Cox7a1	Mus musc	170.151	5919.13	566.1695
chr19	83490	BC113141	Pik3ap1	Mus musc	422.0155	1821.77	1404.168
chr6	17295	AK148258	Met	Mus musc	10.9832	36.5284	55.6797
chrX	14199	BC029024	Fhl1	Mus musc	3951.158	13137.45	14885.46
chr3	14066	AY500273	F3	alt 'AA409	819.2193	5111.588	5547.544
chr16	1E+08	NM_00100	BC117090	Mus musc	250.9096	4168.718	3805.792
chr10	16404	AK157612	Itga7	Mus musc	1549.226	5924.502	5374.465
chr16	12394	NM_00111	Runx1	Mus musc	213.1875	707.4215	854.4815
chr5	17355	BC131665	Aff1	Mus musc	529.8835	1800.014	1758.066
chr2	67856	BC002214	Echdc3	Mus musc	100.1347	1452.53	332.2086
chr9	270151	AK145780	Nlr1	Mus musc	17.823	62.0778	59.1089
chr9	235505	BC052443	Cd109	Mus musc	1191.404	3950.918	4250.01
chr5	231510	AK030171	Agpat9	Mus musc	193.5475	3322.051	2165.61
chr12	263406	AK080928	Plekhg3	Mus musc	346.1852	1216.136	1147.648
chr2	110751	AY953137	Adam33	alt 'Adaml'	423.3571	1402.484	1966.406
chr9	20347	AK048364	Sema3b	Mus musc	775.7704	3038.436	3618.116
chr13	1E+08	XM_00147	Gm2636	PREDICTI	13.8882	88.219	46.0027
chr9	319899	AK080190	Dock6	Mus musc	18.4948	76.6595	63.3022
chr10	216350	BC025461	Tspan8	Mus musc	107.7575	356.5795	566.8415
chr10	58223	AK136517	Mmp19	Mus musc	197.8798	807.9375	1089.582
chr2	74161	AK041254	1300015D	Mus musc	25.2151	500.8215	161.0641
chr7	76560	BC003851	Prss8	Mus musc	321.2143	1429.905	1435.348
chr7	N/A	BC103805	N/A	Mus musc	151.122	573.9638	499.1581
chr8	1E+08	AK166159	LOC10003	Mus musc	30.2566	99.9235	137.3435
chr6	232334	AK078466	Vgll4	Mus musc	195.2435	680.4033	644.1735
chr11	246788	BC108984	Trpv3	Mus musc	149.7128	548.9995	493.9295
chr4	214944	AK087285	Mobkl2b	Mus musc	9.6239	31.7504	36.7199
chr2	227696	BC039982	Phyhd1	Mus musc	669.8055	3417.866	2208.11
chr7	20128	AK089726	Trim30	Mus musc	36.5284	130.3895	120.3778
chr1	13849	BC057857	Ephx1	Mus musc	1874.762	6178.031	6281.878
chr6	54324	AK008907	Arhgef5	Mus musc	68.5637	225.9295	256.9945
chr11	217304	BC107352	Cd300lb	Mus musc	26.7639	99.0675	88.1835
chr13	140580	AK155704	Elmo1	Mus musc	16.8919	55.6437	117.6615
chr1	381269	BC068125	Mreg	Mus musc	1296.522	4268.7	4787.324
chr4	1E+08	NM_02751	Hrct1	Mus musc	68.6557	430.5441	345.2715
chr5	245945	AK089362	Rbm47	Mus musc	281.2431	1611.602	925.6635
chr11	16671	X75650	Krt33b	M.musculu	54.377	259.5275	178.8735
chr4	21916	AK132878	Tmod1	Mus musc	7.0989	24.2553	23.3473
chr5	231805	AK041413	Pilra	Mus musc	29.5219	107.1675	97.0733
chr11	74184	AK079404	2310065F	Mus musc	15.5467	51.0669	114.1055
chr3	320181	BC111898	Fndc7	Mus musc	45.7959	150.4235	162.9615
chr15	671535	XM_00147	Parp10	PREDICTI	130.0535	633.0715	427.0335
chr12	56784	AK046680	Ralgapa1	Mus musc	768.7934	2609.258	2524.181
chr2	329562	AK054128	A530013C	Mus musc	27.2573	196.2175	102.2101
chr9	83961	AK080161	Nrg4	Mus musc	8.3564	86.0715	27.4304
chr2	110751	AK138517	Adam33	Mus musc	440.3575	1444.965	1972.8
chr8	142980	AK166177	Tlr3	Mus musc	89.8693	294.5275	317.9545
chr6	21802	AK165017	Tgfa	Mus musc	62.7403	211.9015	205.5599

chr18	19201	AK163337	Pstpip2	Mus musc	11.2626	48.4172	36.8964
chr10	634517	XM_00147	Gm7138	PREDICT	264.3966	1287.476	865.9374
chr6	12391	BC024383	Cav3	Mus musc	296.885	1390.406	2065.736
chr11	67131	AK218656	Acbd4	Mus musc	879.0668	4945.426	2875.886
chr8	14081	AK161189	Acsl1	Mus musc	3040.541	16347.12	11418.84
chr11	66102	AK030515	Cxcl16	Mus musc	212.1136	701.3927	693.4798
chr15	26912	BC024107	Gcat	Mus musc	281.1735	1458.728	1458.394
chr11	69674	BC026745	Mif4gd	Mus musc	1151.634	5947.694	3760.856
chr10	17938	U48364	Naca	Mus musc	2130.342	6954.827	9224.569
chr19	69774	BC027425	Ms4a6b	Mus musc	237.0615	783.1863	773.7055
chr4	231002	BC031374	Plekhn1	Mus musc	592.6615	1933.546	2065.149
chr1	12523	AK171067	Cd84	Mus musc	299.0855	1041.066	974.4928
chr1	15064	AF010452	Mr1	Mus musc	744.8395	3032.312	3457.558
chr1	394434	BC146021	Ugt1a9	Mus musc	1267.268	5742.712	4325.396
chr5	16599	AK046659	Klf3	Mus musc	334.0355	1291.008	1087.308
chr14	13421	BC012671	Dnase1l3	Mus musc	397.7355	1293.78	1392.618
chr1	14127	BC034163	Fcer1g	Mus musc	383.9255	1248.82	1442.102
chr1	17901	AK009938	Myl1	Mus musc	6446.005	20966.4	27044.8
chr9	N/A	XM_00147	N/A	PREDICT	38.6348	125.6496	144.1775
chr18	104027	NM_00110	Synpo	Mus musc	253.0255	822.3935	978.1595
chr2	227612	BC013092	A830007P	Mus musc	573.7655	1928.75	1931.381
chr6	140494	BC046979	Atp6v0a4	Mus musc	109.5015	355.7645	357.8915
chr18	14164	BC027001	Fgf1	Mus musc	268.7415	872.7317	998.0315
chr9	17281	NM_00111	Fyco1	Mus musc	825.0635	2851.506	2678.33
chr6	16634	BC099879	Klra3	Mus musc	8.2976	29.7507	26.9239
chr18	12385	AK008288	Ctnna1	Mus musc	97.6472	316.7555	481.9437
chr5	67360	AK006812	1700095B	Mus musc	5.1375	16.6535	27.2832
chr7	101772	AK052589	Ano1	Mus musc	194.2037	830.0815	629.2058
chr12	77442	AK020565	9530020I1	Mus musc	6.4422	20.8623	34.053
chr16	239719	BC028459	Mkl2	Mus musc	97.0675	314.2975	327.6415
chr3	69585	AK014082	Hfe2	Mus musc	2583.139	8361.952	9959.037
chr17	212733	BC038613	Ccdc64b	Mus musc	378.7086	1224.968	1258.722
chr13	218294	AK044332	Cdc14b	Mus musc	52.7151	177.7464	170.3535
chr18	225638	XM_00100	Alpk2	PREDICT	281.9421	910.7595	1406.275
chr5	665270	AK161095	Plb1	Mus musc	45.1651	390.8432	403.7615
chr6	76432	AK030376	2310001H	Mus musc	10.8258	38.472	34.9642
chr2	319876	AK164624	Cobll1	Mus musc	18.3627	59.2674	75.3175
chr1	55990	AK009224	Fmo2	Mus musc	6.3407	20.4545	39.0501
chr8	17750	BC031758	Mt2	Mus musc	776.5115	2504.41	3145.899
chr11	18588	BC014723	Pde6g	Mus musc	18.4948	59.5871	64.2781
chr7	18631	BC023439	Pex11a	Mus musc	370.268	2856.004	1372.845
chr19	16973	AK081025	Lrp5	Mus musc	93.6055	347.4555	301.1315
chr18	19201	BC002123	Pstpip2	Mus musc	628.9555	2023.192	2216.06
chr14	14714	AK139480	Gnrh1	Mus musc	35.7931	115.1031	145.1295
chr12	81535	BC037592	Sgpp1	Mus musc	1133.976	3645.623	4259.812
chr14	219131	BC116758	Phf11	Mus musc	52.9008	194.4955	170.0695
chr8	244425	AK053142	A730069N	Mus musc	55.6057	178.7234	354.2436
chr1	70861	BC051128	4921521F2	Mus musc	36.7123	117.9855	232.2655
chr4	329919	BC042786	Skint2	Mus musc	16.7345	71.5836	53.7377
chr18	78695	AK021048	C030005K	Mus musc	14.4153	46.2895	100.3015
chr2	347712	BC052825	Pramel7	Mus musc	21.2943	68.5557	68.3748
chr4	54325	BC096673	Elovl1	Mus musc	2335.722	7739.455	7498.1
chr8	93742	BC023413	Pard3	Mus musc	354.758	1960.893	1887.266

chr13	72293	AK165116	Nkd2	Mus musc	45.1114	144.7208	200.6032
chr15	17988	AK165007	Ndrgr1	Mus musc	92.3795	296.1271	346.8895
chr11	16362	AY225160	Irf1	Mus musc	633.0715	2063.812	2027.884
chr11	71522	BC058747	Ggt6	Mus musc	525.4915	1737.958	1683.192
chr13	20379	BC034853	Sfrp4	Mus musc	818.1872	3151.514	2620.702
chr17	14961	BC057998	H2-Ab1	Mus musc	241.3618	772.3915	901.3355
chr11	67131	AK008170	Acbd4	Mus musc	294.1615	1616.82	940.9335
chr19	383435	XM_35705	Ms4a14	PREDICTI	10.6758	34.1188	50.0694
chr10	20431	BC082555	Si	Mus musc	2546.346	9834.918	10147.61
chr9	235505	AK076475	Cd109	Mus musc	42.6187	184.5475	136.1782
chr7	76560	AK078696	Prss8	Mus musc	298.8435	1542.016	1647.534
chr4	231002	BC046544	Plekhn1	Mus musc	1654.794	5284.585	5725.694
chr15	16681	BC120485	Krt2	Mus musc	33.7745	114.9795	107.8431
chr9	21345	BC003795	Tagln	Mus musc	566.9635	1809.275	2217.749
chrX	13405	AK044536	Dmd	Mus musc	475.2155	1515.222	2375.6
chr7	171504	BC030718	Apob48r	Mus musc	158.3215	526.9495	504.7035
chr4	242286	BC125450	Sdr16c6	Mus musc	819.9295	2786.306	2613.53
chr14	50523	AY015061	Lats2	alt '49324'	37.7832	120.3534	135.8835
chr3	68279	BC029847	Mcoln2	Mus musc	71.6726	228.2835	250.4965
chr4	64817	AK045217	Svep1	Mus musc	8.5527	50.0185	27.238
chr13	N/A	AK155516	N/A	Mus musc	19.5404	171.9999	78.6081
chr3	320782	BC113174	Tmem154	Mus musc	524.0475	1668.26	1872.86
chr16	210126	BC085321	Lpp	Mus musc	896.525	2852.6	3201.32
chr14	11744	AK202488	Anxa11	Mus musc	2908.872	9252.558	10833.7
chr3	320832	AB112024	Sirpb1	Mus musc	56.1947	260.5875	178.681
chr3	229534	BC026838	Pbxip1	Mus musc	2241.526	7122.995	8000.85
chr3	319839	AK040960	A530020G	Mus musc	53.2543	2120.682	621.4695
chr7	272428	AK080219	Acsm5	Mus musc	96.9175	829.2935	401.3895
chrX	N/A	AK048032	N/A	Mus musc	8.0995	25.724	28.4997
chr1	109019	AK077226	Obfc2a	Mus musc	504.4825	2701.423	1601.808
chr7	11425	BC024657	Apoc4	Mus musc	10.8258	101.8015	60.0471
chr17	15007	BC011215	H2-Q10	Mus musc	170.7147	583.9709	541.8752
chr2	78049	AK019812	4930573O	Mus musc	8.9173	28.2961	30.2372
chr5	381680	BC106195	BC055004	Mus musc	11.2035	35.5457	45.0537
chr7	16857	NM_01070	Lgals6	Mus musc	14.5104	83.1735	46.0306
chr7	70261	BC119202	2010110P	Mus musc	470.2415	1491.026	2086.386
chr5	11690	BC026209	Alox5ap	Mus musc	1410.674	4472.904	4550.344
chr8	N/A	AK040272	N/A	Mus musc	47.4097	237.9855	150.2935
chr7	20821	BC010580	Trim21	Mus musc	310.2795	997.3989	1000.831
chr17_ran	N/A	BC116340	N/A	Mus musc	112.2755	592.5495	542.7079
chr13	74145	AK170278	F13a1	Mus musc	159.8435	526.5335	506.3348
chr5	319982	AK036974	5930430L	Mus musc	333.8042	1277.586	1057.122
chr3	320302	BC121823	Glt28d2	Mus musc	66.3145	226.6695	241.111
chr17	12575	BC002043	Cdkn1a	Mus musc	1231.532	3898.41	4429.814
chr4	69743	BC035954	Cas21	Mus musc	368.9255	1167.806	1398.053
chr11	56745	BC049894	C1qtnf1	Mus musc	908.7675	2876.242	3413.542
chr1	104086	BC002183	Cyp27a1	Mus musc	292.7741	1036.174	926.3475
chr11	94176	AK089682	Dock2	Mus musc	22.5786	71.4276	92.0235
chr9	235674	BC019882	Acaa1b	Mus musc	141.7995	1064.552	448.1547
chr11	20851	AK088966	Stat5b	Mus musc	96.8135	305.9095	362.1655
chr18	12978	AK171543	Csf1r	Mus musc	87.0148	294.7095	274.6255
chr11	76392	AK005634	1700003F	Mus musc	12.5229	39.4897	59.9683
chr14	11744	AK044203	Anxa11	Mus musc	825.8915	3022.81	2602.544

chr1	12506	AK088027	Cd48	Mus musc	216.3311	681.6475	776.0815
chr14	16427	AK004893	Itih4	Mus musc	6.5215	430.5175	233.0965
chr14	328417	AK172907	Parp4	Mus musc	457.2675	1604.822	1439.8
chr4	269589	BC005623	Sytl1	Mus musc	1125.752	3543.066	3594.044
chr7	12051	BC156806	Bcl3	Synthetic	90.3398	286.3727	284.2979
chr6	110935	BC017127	Atp6v1b1	Mus musc	123.3215	2970.076	2770.958
chr1	74591	XM_00100	Abca12	PREDICT	1406.833	4425.458	4820.618
chr6	16439	AB012393	Itpr2	Mus musc	307.0552	2051.698	964.3979
chr2	70599	AB093303	Ssfa2	Mus musc	3670.628	11519.67	11594.71
chr7	232984	BC025206	B3gnt8	Mus musc	681.2635	2175.12	2226.852
chr10	74048	BC003967	4632428N	Mus musc	783.3164	2865.324	2455.62
chr18	74574	XM_98829	483340311	PREDICT	422.441	1323.994	1986.081
chr16	224079	AK028776	Atp13a4	Mus musc	11.3868	132.3495	88.0815
chr14	503845	NM_00101	Ear12	Mus musc	14.3434	79.7532	44.9408
chr11	71489	AK018376	8430403D	Mus musc	34.5596	133.0075	108.2798
chr2	14260	X62379	Fmn1	M.musculu	334.9204	1226.926	1048.688
chr8	69279	AK005580	1700001D	Mus musc	49.6575	155.3915	195.4195
chr1	69660	BC004752	Tmbim1	Mus musc	629.8975	1964.772	2124.076
chr11	15944	BC145957	Irgm1	Mus musc	1316.654	4711.726	4515.978
chr7	12606	BC011118	Cebpa	Mus musc	2336.626	9947.994	7285.478
chr3	13645	BC060741	Egf	Mus musc	389.5566	1214.322	1781.058
chr7	654797	AK020867	A930016O	Mus musc	41.8693	136.6715	130.4635
chr11	217203	BC022145	Tmem106a	Mus musc	177.1404	567.0935	551.9541
chr17	21354	AK040629	Tap1	Mus musc	34.8908	113.3775	108.5595
chr17	12575	U09507	Cdkn1a	Mus musc	449.8417	1599.32	1399.504
chr14	213019	AK137991	Pdlim2	Mus musc	83.7635	303.8415	260.0771
chr4	1E+08	XM_00147	Gm2891	PREDICT	116.3426	360.9483	438.6255
chr1	75255	XM_00147	4930562F0	PREDICT	191.6065	706.8615	594.4475
chr11	217258	AB255881	Abca8a	Mus musc	269.8815	836.6555	968.1259
chr9	94180	BC057322	Acsbg1	Mus musc	575.3335	1977.722	1782.872
chr2	20272	AK142964	Scn7a	Mus musc	85.9766	412.0115	266.2368
chr3	71862	AK006330	Gpr160	Mus musc	148.5131	459.849	460.2515
chr1	76422	AK009188	2310006M	Mus musc	14.0108	71.4796	82.1275
chr6	1E+08	XM_00147	Gm3289	PREDICT	20.3271	941.8073	62.8983
chr9	N/A	AK157234	N/A	Mus musc	122.0627	377.6019	396.0155
chr5	245945	AK142584	Rbm47	Mus musc	24.5756	86.4155	75.9975
chr3	68723	BC118008	Hnr	Mus musc	5811.554	29371.91	32561.7
chr15	66270	AK167327	Fam134b	Mus musc	664.5755	2053.274	2395.725
chr3	15077	BC094041	Hist2h3c1	Mus musc	249.9855	1234.002	1317.533
chr10	73811	AK015099	4930405J1	Mus musc	13.4406	41.4841	60.6609
chr4	21401	BC010807	Tcea3	Mus musc	348.9355	1076.252	1232.986
chr16	12394	NM_00111	Runx1	Mus musc	244.4435	753.9295	950.9035
chr6	12180	BC076601	Smyd1	Mus musc	1140.918	3518.642	5255.086
chr9	13036	BC006878	Ctsh	Mus musc	1323.1	4079.303	4258.142
chr19	54447	AK034493	Asah2	Mus musc	87.9355	314.0915	270.9655
chr16	30940	AK030906	Usp25	Mus musc	28.747	88.5775	101.1928
chr6	330260	BC021887	Pon2	Mus musc	66.8094	205.8495	226.4975
chr3	67547	AK030918	Slc39a8	Mus musc	147.2771	453.6995	467.9144
chr14	71704	AK036749	Arhgef3	Mus musc	14.3942	44.3103	45.2423
chr14	67725	AK038639	Nudt13	Mus musc	170.6445	846.9675	525.2635
chr3	67547	AK016853	Slc39a8	Mus musc	889.2315	2736.114	2950.676
chr2	20648	AK137379	Snta1	Mus musc	605.2148	1862.011	2191.634
chr15	18174	AJ493663	Slc11a2	Mus musc	16.5926	68.5079	51.0422

chr19	240675	BC115868	Vwa2	Mus musc	519.6215	3551.616	3793.728
chr6	22371	AK170201	Vwf	Mus musc	257.0375	969.1995	1049.424
chr14	11731	BC140357	Ang2	Synthetic	104.6709	321.6615	340.7375
chr19	76088	AK050543	Dock8	Mus musc	283.674	988.2538	871.6135
chr2	76051	AK034155	Ganc	Mus musc	21.2041	78.3595	65.046
chr10	216454	BC018263	BC089597	Mus musc	57.356	189.7115	175.9407
chr7	76681	AF220126	Trim12	Mus musc	22.8414	70.0576	77.7455
chr2	329562	AK166336	A530013C	Mus musc	18.7426	62.9823	57.4744
chr3	97114	BC015270	Hist2h3c2	Mus musc	152.8555	506.2155	823.8795
chr6	319757	AK053708	Smo	Mus musc	351.4855	1076.724	1088.602
chr6	11826	BC007125	Aqp1	Mus musc	2869.618	12758.02	10539.48
chr2	14462	AK157939	Gata3	Mus musc	722.8275	2212.256	2522.452
chr10	74048	AK131118	4632428N	Mus musc	535.2295	2188.56	1637.801
chr1	226744	AK040666	9630058J2	Mus musc	48.6006	148.7175	178.522
chr4	14590	BC009809	Ggh	Mus musc	874.8975	2674.756	2778.936
chr19	69534	BC027646	Avpi1	Mus musc	277.094	846.6589	1018.808
chr10	216445	AK049245	Arhgap9	Mus musc	173.5361	530.2155	594.4835
chr7	78610	AK165015	Uvrag	Mus musc	85.6955	261.6195	289.9855
chr2	20971	BC005679	Sdc4	Mus musc	1460.697	4458.594	4664.36
chr2	319876	AK173076	Cobll1	Mus musc	119.1935	363.4943	365.1175
chr14	12224	BC006646	Klf5	Mus musc	313.8875	1160.644	956.9175
chr4	242627	EU099303	Skint5	alt OTTM	5.6559	37.4747	17.2422
chr1	208795	BC014795	Tmem63a	Mus musc	1146.88	3495.727	4141.626
chr7	16855	BC030297	Lgals4	Mus musc	114.3039	740.2255	348.2195
chr2	14118	AK080935	Fbn1	Mus musc	52.3636	159.5175	206.2475
chrX	54630	BC032173	Prickle3	Mus musc	924.3995	3133.808	2815.148
chrX	68792	BC028307	Srpx2	Mus musc	406.0975	1855.71	2105.207
chr1	170706	BC024613	Tmem37	Mus musc	169.6455	516.1295	537.3308
chr1	1E+08	XM_00147	Gm2685	PREDICT	15.3662	52.9727	66.0184
chr11	67098	AK008813	2210403K	Mus musc	450.4555	1635.798	1368.424
chr3	665189	XM_97515	Gm7536	PREDICT	10.7507	32.6462	67.286
chr9	1E+08	XM_00147	Gm2069	PREDICT	124.9755	455.0415	379.4155
chr7	94094	AF220141	Trim34	Mus musc	180.9255	661.5635	548.8039
chr7	26365	AB236332	Ceacam1	Mus musc	181.5935	815.2715	550.828
chr7	434223	AK156879	Gm1966	Mus musc	240.1093	988.7935	728.0534
chr1	13518	DQ463750	Dst	Mus musc	364.0302	1211.072	1103.686
chr2	65964	AK162819	B230120H	Mus musc	854.5675	2589.96	2721.27
chr9	270152	BC050133	Amica1	Mus musc	77.4135	263.9955	234.5657
chr6	N/A	AK051887	N/A	Mus musc	24.1729	73.2155	74.48
chr5	14190	BC028893	Fgl2	Mus musc	381.9375	1156.415	1443.465
chr2	21420	BC003778	Tcfap2c	Mus musc	1209.382	3660.24	5081.153
chr4	230379	BC059819	Acer2	Mus musc	318.3555	2435.126	2031.68
chr10	14609	AY427558	Gja1	Mus musc	56.9534	172.3415	223.2594
chr4	15530	DQ266428	Hspg2	Mus musc	1217.156	5830.288	5929.044
chr13	21810	BC129900	Tgfbi	Mus musc	2599.984	7865.288	8564.396
chr8	N/A	XM_97739	N/A	PREDICT	68.6616	229.4435	207.647
chr8	338521	AK033736	Fa2h	Mus musc	13.0168	39.3496	48.7202
chr17	14969	BC132163	H2-Eb1	Mus musc	563.3535	1711.224	1702.984
chr7	12273	BC125641	C5ar1	Mus musc	519.2224	1858.864	1569.515
chr14	210789	AK044719	Tbc1d4	Mus musc	1098.761	4685.852	3326.782
chr15	26874	BC019187	Abcd2	Mus musc	1339.099	5244.167	4188.132
chr8	142980	BC099937	Tlr3	Mus musc	63.9248	193.0415	214.1101
chr3	114301	AK136939	Palmd	Mus musc	62.4144	225.2175	188.4314

chr11	207742	AK153638	Rnf43	Mus musc	27.7278	94.4255	121.7625
chr13	1E+08	XM_00147	Gm2590	PREDICT	57.8682	174.6051	228.3475
chr17	18712	AK154127	Pim1	Mus musc	571.8012	2262.898	1724.813
chr11	217198	AK052371	Plekhh3	Mus musc	568.5415	1714.054	1818.56
chr2	16803	AK143562	Lbp	Mus musc	68.4817	206.2975	224.6655
chr1	381337	BC114576	Fam178b	Mus musc	21.877	84.2295	71.9539
chr19	16952	AK170612	Anxa1	Mus musc	183.3895	552.3115	562.4735
chr5	66988	BC016536	Lap3	Mus musc	1240.738	3799.586	3736.088
chr6	71287	AK017087	Cpvl	Mus musc	23.9318	82.2735	126.7487
chr8	16168	DQ083237	Il15	alt 'Al5036	204.423	775.0802	615.4015
chr4	14620	AY390400	Gjb3	Mus musc	16.7184	65.9182	106.2624
chr6	80782	AK041228	Klr1b1b	Mus musc	14.7747	44.4418	75.7035
chr9	102626	AK172578	Mapkapk3	Mus musc	72.212	264.4075	244.5388
chr9	102626	AK087496	Mapkapk3	Mus musc	1645.672	4949.232	5448.714
chr3	320832	DQ055453	Sirpb1	Mus musc	26.2109	78.8198	91.5215
chr6	94346	BC019416	Tmem40	Mus musc	770.7255	4127.838	4016.76
chr2	19700	AK078772	Rem1	Mus musc	54.7426	164.4475	227.445
chr10	N/A	AK076845	N/A	Mus musc	11.7314	35.2091	66.5539
chr5	212285	AK122316	Arap2	Mus musc	520.9617	1562.008	1656.196
chr3	171388	BC005659	Bnpl	Mus musc	682.3855	2044.616	2209.381
chr2	16420	BC049185	Itgb6	Mus musc	195.6561	585.9815	757.1204
chrX	279572	BC117913	Tlr13	Mus musc	131.2015	424.1295	392.9315
chr12	24000	D83072	Ptpn21	Mus musc	517.0113	1547.618	1951.616
chr11	13394	AK145133	Dlx4	Mus musc	78.018	233.8395	323.6255
chr4	21936	BC140224	Tnfrsf18	Synthetic	260.0006	777.4595	826.0575
chr8	11513	NM_00110	Adcy7	Mus musc	894.7335	2674.711	3719.048
chr17	14961	AY303784	H2-Ab1	Mus musc	511.5661	1528.785	1984.37
chr12	328121	AK136846	Abhd12b	Mus musc	18.8361	83.5915	56.2712
chr3	13645	BC017681	Egf	Mus musc	373.5815	1115.7	1650.676
chr11	58210	BC020159	Sectm1b	Mus musc	17.6268	162.4646	52.6012
chr19	18426	BC021411	Ovol1	Mus musc	1601.153	4906.832	5330.84
chr10	70376	AK138667	1700026H	Mus musc	23.9078	71.2876	71.9136
chr7	19267	AK160947	Ptpre	Mus musc	53.0107	170.3415	158.0595
chr2	110751	AB059633	Adam33	Mus musc	1057.13	3151.674	4216.538
chr15	18414	AK087179	Osmr	Mus musc	13.6734	40.7608	62.3955
chr6	N/A	AK048048	N/A	Mus musc	19.7881	60.215	58.9678
chr19	107375	BC037680	Slc25a45	Mus musc	94.0375	280.1947	326.5995
chr19	53412	BC052769	Ppp1r3c	Mus musc	2005.42	7236.602	5971.59
chr11	104709	AK171063	Pik3r6	Mus musc	15.073	44.8768	53.1178
chr1	68428	BC037435	Steap3	Mus musc	2368.596	8150.812	7048.545
chr1	12633	AK161220	Cflar	Mus musc	97.6644	290.5675	378.1655
chr7	63872	BC099454	Zfp296	Mus musc	230.9513	686.7895	708.4926
chr15	56448	BC016256	Cyp2d22	Mus musc	277.6522	1068.212	985.796
chr9	17281	BC157054	Fyco1	Synthetic	2019.117	6923.036	5999.437
chr16	77994	AK012955	2810055G	Mus musc	44.0956	130.9735	142.5175
chr6	N/A	AF012155	N/A	Mus musc	54.4869	194.6695	161.7315
chr1	51801	BC012644	Ramp1	Mus musc	540.7415	1604.922	2188.56
chr4	11828	BC027400	Aqp3	Mus musc	2702.306	8717.604	8087.24
chr6	69538	AK031465	Antxr1	Mus musc	93.5535	276.1691	321.0125
chrX	54634	BC132580	Magix	Mus musc	54.8247	395.5508	161.8155
chr1	72017	BC016266	Cyb5r1	Mus musc	797.8895	2466.905	2354.827
chr14	142687	BC156902	Asb14	Synthetic	73.7535	217.6495	284.0355
chr11	20850	BC008998	Stat5a	Mus musc	806.8429	3534.894	2380.758

chr11	N/A	AK198984	N/A	Mus musc	299.8715	884.3135	979.7495
chr6	54486	BC116735	Hpgds	Mus musc	805.5535	2374.741	2525.42
chr9	235302	AK143856	D630033O	Mus musc	8.4165	24.8112	53.1764
chr2	13482	BC022183	Dpp4	Mus musc	1586.144	5050.177	4675.338
chr6	76432	AK036632	2310001H	Mus musc	18.4127	70.634	54.2591
chr2	12908	BC006668	Crat	Mus musc	3008.198	15372.78	8863.07
chr4	213989	BC025833	Tmem82	Mus musc	7.0128	24.2827	25.0405
chr2	76051	BC079548	Ganc	Mus musc	215.7835	1138.078	635.74
chr1	665225	XM_97546	Gm7544	PREDICTI	12.5939	74.2235	37.102
chr1	12654	BC003780	Chi3l1	Mus musc	100.9861	330.0386	297.4915
chr7	12051	BC021610	Bcl3	Mus musc	158.2222	466.0995	494.9615
chr9	102626	AK170456	Mapkapk3	Mus musc	1814.568	5485.148	5342.898
chr18	78695	AK043286	C030005K	Mus musc	63.528	210.0755	187.0495
chr13	66503	AK002708	1810034E	Mus musc	73.8235	541.8855	359.3692
chr11	67131	AK203233	Acbd4	Mus musc	285.0075	1406.71	838.4855
chr16	84544	BC052865	Cd96	Mus musc	25.3878	86.9135	74.6855
chr17	66705	AK014633	Dnase1l2	Mus musc	486.909	2325.179	2187.644
chr13	328258	BC107250	AU042651	Mus musc	280.5959	1743.182	1569.766
chr18	13505	AK036893	Dsc1	Mus musc	6.3792	20.4358	18.7495
chr14	210789	AK031120	Tbc1d4	Mus musc	790.6675	3282.885	2665.669
chr9	12501	BC145926	Cd3e	Mus musc	224.7915	660.4195	724.797
chr6	381792	XM_00148	2310040G	PREDICTI	64.0571	188.1515	204.2928
chr6	26357	AK142528	Abcg2	Mus musc	26.1005	79.5435	76.6515
chr6	232371	BC070472	C1rl	Mus musc	168.2155	900.5759	714.2195
chr15	213068	BC117823	Tmem71	Mus musc	38.1528	111.9335	112.4924
chr6	20276	BC133688	Scnn1a	Mus musc	270.2781	802.4935	792.7735
chr4	52076	BC011072	Tmem38b	Mus musc	992.4718	2952.131	2911.006
chr11	11484	BC024934	Aspa	Mus musc	65.356	803.3666	191.6495
chr4	26561	BC107357	Mmp23	Mus musc	1271.763	4634.534	5877.763
chr17	17075	BC094465	Epcam	Mus musc	429.9055	1260.09	1283.296
chr13	18708	AK171366	Pik3r1	Mus musc	213.4735	662.9035	625.6855
chr17	14972	AK168517	H2-K1	Mus musc	148.4195	463.8495	434.5896
chr19	73713	XM_00100	Rbm20	PREDICTI	354.3216	1037.27	1352.766
chr1	14367	BC117723	Fzd5	Mus musc	203.7606	833.3269	843.7066
chr8_randc	114564	NM_03361	Csprs	Mus musc	25.8538	240.5201	75.6735
chr12	238395	XM_13824	Gm4931	PREDICTI	66.6518	195.0635	255.629
chr13	328329	AK037351	Mast4	Mus musc	78.7855	230.5469	266.0046
chr1	53945	BC003438	Slc40a1	Mus musc	633.697	2147.782	1854.233
chr10	216445	DQ498128	Arhgap9	Mus musc	192.612	563.1619	641.3495
chr10	216445	AK083474	Arhgap9	Mus musc	168.6841	492.7999	527.9675
chr5	231532	AK031879	Arhgap24	Mus musc	65.2409	190.4415	212.4775
chr1	13136	AK030285	Cd55	Mus musc	574.0895	1675.513	2373.564
chr9	74492	BC139793	5430433E2	Mus musc	100.8355	495.2095	392.0315
chr13	68916	AK169761	Cdkal1	Mus musc	15.3604	44.8192	59.8252
chr16	665119	XM_97470	Sec14l5	PREDICTI	98.435	287.1575	488.5015
chr16	78749	BC062166	Filip1l	Mus musc	955.9915	3399.424	5358.974
chr14	71037	BC115562	4933401F0	Mus musc	11.5721	35.1121	33.7441
chr13	66129	AK145867	1110018J1	Mus musc	1261.206	4101.686	4283.106
chr7	12489	AK089205	Cd33	Mus musc	13.7035	50.5532	39.8812
chr1	212933	BC120725	Pm20d1	Mus musc	38.4135	572.1152	111.6628
chr7	67800	BC043447	Dgat2	Mus musc	3823.384	14699.26	11101.86
chr10	14676	BC005439	Gna15	Mus musc	442.5295	1284.14	1758.866
chr2	56348	AK076088	Hsd17b12	Mus musc	24.8566	72.1216	86.0095

chr7	80719	BC057951	Igsf6	Mus musc	85.3787	268.1655	247.7138
chr3	20196	BC005687	S100a13	Mus musc	531.8475	2258.346	1542.919
chr3	13645	AK136439	Egf	Mus musc	397.4935	1152.723	1564.38
chr12	263406	AK162025	Plekhg3	Mus musc	919.616	2666.652	2746.835
chr8	72297	AY037785	B3gnt3	Mus musc	53.1524	370.0975	336.0742
chr1	14131	AK169887	Fcgr3	Mus musc	587.9615	1745.65	1703.044
chr7	16495	BC156467	Kcna7	Synthetic	23.6619	68.5357	93.5175
chr2	11636	BC014802	Ak1	Mus musc	2283.194	6612.106	7568.58
chr5	71985	AK148195	Acad10	Mus musc	23.3263	134.9355	67.5478
chr9	74492	NM_02897	5430433E2	Mus musc	47.4757	197.0575	177.1803
chr11	20868	BC069840	Stk10	Mus musc	294.0983	850.3855	896.8415
chr3	12977	AK154872	Csf1	Mus musc	34.9428	101.0341	155.1115
chr17	20975	AK019694	Synj2	Mus musc	32.4603	93.7835	114.9315
chr1	19250	AK028783	Ptpn14	Mus musc	356.5511	1061.746	1030.024
chr4	330010	AK014686	Tll10	Mus musc	66.0866	219.7375	190.8955
chr14	211623	BC032982	Plac9	Mus musc	4111.984	12020.48	11871.25
chr9	208943	AK142326	Myo5c	Mus musc	29.0489	123.0315	90.4494
chr8	234671	BC034182	Ces2	Mus musc	48.1343	415.8795	284.2975
chr19	240505	XM_14055	Cdc42bpg	PREDICT	602.2812	1735.73	1764.994
chr7	17907	BC055869	Mylpf	Mus musc	8432.112	24296.3	25450.6
chr9	208943	BC003985	Myo5c	Mus musc	9.8293	32.591	28.3214
chr18	75739	AK036956	Mpp7	Mus musc	9.4715	27.2755	34.2958
chr4	53608	BC120565	Map3k6	Mus musc	953.6035	3790.136	3343.24
chr8	234683	BC018516	Elmo3	Mus musc	190.6535	548.5655	563.1095
chr17	19725	AK086559	Rfx2	Mus musc	81.8617	235.3975	295.2235
chr17	320159	AK076284	Fam179a	Mus musc	136.2475	619.263	539.0975
chr6	54324	BC025127	Arhgef5	Mus musc	1060.677	3047.808	3355.019
chr8	20288	L04274	Msr1	Mus musc	97.5135	602.9415	584.0615
chr7	22177	BC056450	Tyrobp	Mus musc	610.1175	1752.518	2093.556
chr4	53608	AK014061	Map3k6	Mus musc	923.3175	2767.01	2647.718
chr9	16154	AK149899	Il10ra	Mus musc	90.7222	260.1455	293.8175
chr15	393082	AB253944	Mettl7a2	Mus musc	1837.501	7330.307	5268.408
chr2	228366	BC116715	Gylt1b	Mus musc	1080.512	3356.324	3720.546
chr7	75547	AK172678	Akap13	Mus musc	226.9325	650.1495	835.2828
chr12	14874	BC031777	Gstz1	Mus musc	583.7715	2655.352	1672.028
chr15	20649	BC003748	Sntb1	Mus musc	322.159	1117.625	1173.742
chr13	N/A	AK217959	N/A	Mus musc	1293.462	7058.716	3703.994
chr17	12954	BC085172	Cryaa	Mus musc	33.8349	96.8435	155.2935
chr13	N/A	AK017409	N/A	Mus musc	336.7722	992.2585	963.5955
chr14	192187	BC049247	Stab1	Mus musc	1858.143	5316.139	6406.7
chr9	12306	BC004659	Anxa2	Mus musc	481.1459	1375.906	1400.632
chr19	353211	AK039241	Prune2	Mus musc	159.2613	455.4095	500.8215
chr1	116847	BC019775	Prelp	Mus musc	339.9616	1629.824	972.1156
chr13	328232	AK053379	Gfod1	Mus musc	24.3775	69.6937	76.5935
chr19	225845	AK039703	Pla2g16	Mus musc	235.3479	1235.927	672.5195
chr4	230738	AK152518	Zc3h12a	Mus musc	314.4135	1029.862	898.2326
chr1	107527	AK085780	Il1rl2	Mus musc	1835.902	5240.626	5873.872
chr2	54519	BC023110	Apbb1ip	Mus musc	782.8495	2233.898	2576.204
chr11	16362	BC003821	Irf1	Mus musc	340.7375	971.8975	1130.726
chr10	56016	BC006898	Hebp2	Mus musc	1655.832	4723.108	4722.279
chr1	226823	AK033491	Kctd3	Mus musc	47.0151	155.5535	134.0815
chr9	74153	AK157941	Ube1l	Mus musc	39.9848	151.4915	113.9844
chr16	54613	AK033562	St3gal6	Mus musc	223.4095	780.8315	636.7815

chr5	20531	AK164786	Slc34a2	Mus musc	6.7426	24.8373	26.8516
chr7	24058	BC094069	Sigirr	Mus musc	225.4995	713.5675	641.7399
chr15	N/A	AK077350	N/A	Mus musc	71.589	203.3955	230.6441
chr3	84111	AK080394	Gpr87	Mus musc	853.5223	2423.753	2574.832
chr12	319710	AK054457	Frmd6	Mus musc	125.3775	355.6274	431.1175
chr11	20850	AK090254	Stat5a	Mus musc	88.3757	331.4395	250.5875
chr5	14284	BC065131	Fosl2	Mus musc	2885.339	8167.64	9948.746
chr3	545539	AK136654	Gm15417	Mus musc	18.8281	105.3555	53.2943
chr7	71368	AK017368	5430431A	Mus musc	245.6305	695.1565	723.2935
chr2	381347	AK029605	4930412O	Mus musc	52.6012	148.8455	170.8177
chr7	330662	AK138143	Dock1	Mus musc	47.0648	139.8519	133.0635
chrX	16164	BC052425	Il13ra1	Mus musc	538.6442	1522.253	2159.146
chr5	80290	BC003323	Gpr146	Mus musc	192.0595	826.2115	542.1303
chr1	241075	AK172220	Plekhm3	Mus musc	102.8675	290.3455	306.4595
chr3	77559	AK087855	Agl	Mus musc	38.9794	110.0115	126.2095
chr3	20341	BC011202	Selenbp1	Mus musc	2424.57	9925.096	6839.316
chrX	13405	AK013510	Dmd	Mus musc	123.9295	349.4935	443.6295
chr15	18810	AF188008	Plec1	Mus musc	3060.824	8631.699	9695.938
chr5	19249	AK084198	Ptpn13	Mus musc	78.5015	221.3415	245.0386
chr3	229898	AK030414	Gbp5	Mus musc	10.7854	30.3808	39.4658
chr3	171388	AK142472	Bnpl	Mus musc	1761.11	4964.592	4958.516
chr17	625018	K02799	C4a	Mouse MH	155.1418	509.5615	436.7831
chr6	15465	AK047070	Hrh1	Mus musc	42.5082	119.6678	181.7835
chr18	13507	Y11169	Dsc3	M.musculu	3650.358	10276.04	10780.86
chr19	56072	AF244978	Lgals12	alt 'AW987	341.6116	5664.398	2455.944
chr17	13177	BC054444	Dci	Mus musc	624.4415	8118.565	1809.322
chr14	50523	AK163607	Lats2	Mus musc	138.5422	389.945	425.0815
chr12	1E+08	XM_00147	Gm3119	PREDICTI	17.7313	95.5535	88.6675
chr16	N/A	AK083150	N/A	Mus musc	22.5648	63.471	75.5515
chr12	263406	AK144041	Plekhg3	Mus musc	103.1355	290.0575	332.037
chr8	15484	BC014753	Hsd11b2	Mus musc	166.3308	467.5895	608.7035
chr7	77938	AK147725	Fam53b	Mus musc	748.6255	3088.656	2103.484
chr13	13024	AK018801	Ctla2a	Mus musc	308.7507	990.7535	867.44
chr10	14160	AK134981	Lgr5	Mus musc	37.8524	106.3295	167.6015
chr11	70110	BC008158	Ifi35	Mus musc	98.7458	286.4155	277.3175
chr13	N/A	AK138741	N/A	Mus musc	13.3453	37.4772	41.0351
chr13	76137	BC113195	Ccdc90a	Mus musc	1139.522	7597.446	3199.46
chr9	109332	AK035674	Cdcp1	Mus musc	259.7875	729.2575	766.9855
chr12	16997	AK052980	Ltbp2	Mus musc	51.6918	3354.603	549.1395
chr11	20292	BC027521	Ccl11	Mus musc	315.2095	1080.072	884.4049
chr11	56405	AK166840	Dusp14	Mus musc	770.5795	3967.613	3794.942
chr8	1E+08	XM_00148	Gm4316	PREDICTI	28.9351	233.6935	81.1075
chr5	231293	BC016523	Cwh43	Mus musc	319.6675	1699.112	1996.234
chr4	74519	AK037031	Cyp2j9	Mus musc	45.8828	128.5155	129.4175
chr3	97114	BC132488	Hist2h3c2	Mus musc	620.1875	1735.4	1806.522
chr13	11472	BC089579	Actn2	Mus musc	5478.008	19376.13	20324.61
chr7	20352	AK156620	Sema4b	Mus musc	162.3184	508.0415	453.7475
chr9	29806	AK083970	Limd1	Mus musc	118.4295	330.9415	343.7229
chr4	67182	BC013542	Pdzk1ip1	Mus musc	1340.89	4255.112	3746.158
chr10	1E+08	XM_00147	Gm3250	PREDICTI	359.0415	1345.504	1002.958
chr2	54519	AK162323	Apbb1ip	Mus musc	15.4193	43.0694	44.4813
chr15	69031	AK028111	1810009N	Mus musc	8.0525	22.4771	23.7706
chr6	80782	X64719	Klr1b	M.musculu	19.942	55.6583	63.8082



chr4	1E+08	XM_00147	Mup13	PREDICT	185.8655	1617.364	518.5095
chr1	94284	AK162514	Ugt1a6a	Mus musc	86.7035	633.1295	392.4575
chr10	12834	AK132540	Col6a2	Mus musc	610.2355	1701.621	2260.999
chr2	228366	AY742914	Gylt1b	alt '573048	1138.35	3354.548	3553.261
chr4	22062	BC066045	Trp73	Mus musc	331.0455	1744.093	2066.796
chr16	54613	BC052338	St3gal6	Mus musc	895.7394	3397.996	2494.362
chr7	N/A	BC106108	N/A	Mus musc	44.8592	238.2655	155.6418
chr3	27049	AK147552	Etv3	Mus musc	480.5055	1336.968	1444.075
chr7	94094	AK172135	Trim34	Mus musc	141.6715	511.6707	393.99
chr16	N/A	AK213392	N/A	Mus musc	244.3015	679.3635	795.0575
chr3	56758	BC060031	Mbnl1	Mus musc	822.0836	2396.146	2285.314
chr6	14924	AK046635	Magi1	Mus musc	167.1115	564.3035	464.4027
chr10	109272	BC062158	Mybpc1	Mus musc	5424.725	27206.02	28580.22
chr12	382639	BC046387	Zbtb42	Mus musc	159.0555	443.73	441.8135
chr7	233328	AK171849	Lrrk1	Mus musc	135.8215	386.5748	377.0875
chr8	234683	AK157875	Elmo3	Mus musc	90.7476	282.5878	251.9075
chr4	230738	BC036563	Zc3h12a	Mus musc	274.8943	763.0666	773.0155
chr1	98267	BC006579	Stk17b	Mus musc	504.1135	1399.3	1493.214
chr14	105440	AK087312	Kctd9	Mus musc	70.3276	195.1875	243.7495
chr9	53376	BC017517	Usp2	Mus musc	868.0345	4117.718	4770.768
chr5	109979	DQ519371	Art3	alt '493056	12.0219	76.2975	71.0096
chr9	121021	AK028844	Cspg4	Mus musc	905.2355	2510.346	3650.964
chr8	74166	BC024788	Tmem38a	Mus musc	2609.698	7235.568	8364.75
chr7	77938	AK165022	Fam53b	Mus musc	353.8955	1463.2	981.1498
chrX	66747	NR_00363	4933400A	Mus musc	12.5415	34.7659	42.5462
chr12	19363	AK015771	Rad5111	Mus musc	51.1247	141.6955	164.7807
chr14	18753	BC051416	Prkcd	Mus musc	160.8235	445.4211	493.1235
chr17	80978	BC116696	Mrgprh	Mus musc	15.387	100.4315	173.4875
chr9	56441	AF417498	Nat6	Mus musc	345.7608	1112.106	1059.344
chr14	1E+08	XM_00148	Gm10847	PREDICT	233.0275	782.9575	644.7655
chr6	320775	AK075695	B230319C	Mus musc	227.7255	630.0795	682.1255
chr2	18796	BC038048	Plcb2	Mus musc	73.1081	202.2535	342.4655
chr7	98845	BC005492	Eps8l2	Mus musc	974.8515	2696	2899.802
chr7	233079	BC019570	Ffar2	Mus musc	49.2097	201.324	136.0875
chr5	19415	AK156050	Rasal1	Mus musc	33.6261	92.9875	121.2735
chr15	393082	BC087869	Mettl7a2	Mus musc	2091.226	7280.286	5781.632
chr1	226594	BC025872	Rcsd1	Mus musc	765.9652	2117.343	2573.208
chr7	233765	AK048843	Plekha7	Mus musc	44.1431	122.0195	127.0955
chr15	19116	AK081676	Prlr	Mus musc	11.1524	30.8028	38.3277
chr9	N/A	AK034375	N/A	Mus musc	3865.592	12940.5	13120.42
chr19	18034	AF155372	Nfkb2	alt 'NF-kap	732.0555	2020.726	2062.178
chr3	320782	BC096432	Tmem154	Mus musc	334.6732	923.7615	1197.872
chr3	20756	BC132518	Sprr2b	Mus musc	136.7615	1835.724	1220.892
chr1	403183	BC100531	4832428D	Mus musc	12.594	1426.234	1789.964
chr19	76088	AK018051	Dock8	Mus musc	122.2733	337.1895	343.7992
chr6	16651	BC021484	Sspn	Mus musc	934.8015	3963.318	4500.138
chr15	66270	BC019494	Fam134b	Mus musc	1852.231	5104.312	5298.356
chr5	N/A	BC048648	N/A	Mus musc	26.3517	279.9685	72.602
chr18	328967	AB199795	4933429F	Mus musc	399.5315	1206.256	1100.528
chr15	83925	AK036590	Trps1	Mus musc	285.2843	785.5555	1324.256
chr2	58203	AK008179	Zbp1	Mus musc	59.9148	245.4675	164.9131
chr1	67647	AK041441	4930523C	Mus musc	46.1342	126.9595	177.8395
chr9	19200	BC096761	Pstpip1	Mus musc	565.9335	1557.118	1593.097

chrX	54634	AK077898	Magix	Mus musc	49.3123	294.7535	135.6675
chr17	619329	XM_00100	F420015M	PREDICT	189.5755	665.9915	521.5338
chr17	N/A	AK050117	N/A	Mus musc	194.4675	534.5888	665.591
chr18	74574	BC113158	4833403I1	Mus musc	109.6035	301.2455	408.0535
chr17	114763	NR_00146	G6b	Mus musc	27.3559	87.6375	75.1875
chr12	14281	BC029814	Fos	Mus musc	684.4435	1907.32	1880.949
chr4	207920	BC059280	Esrp1	Mus musc	1836.116	5045.882	5538.212
chr13	75507	XM_88957	Pou5f2	PREDICT	45.0169	123.7015	128.5475
chr5	N/A	AK087624	N/A	Mus musc	41.9852	158.2456	115.3095
chr1	54139	AK087631	Irf6	Mus musc	127.5776	350.3109	358.1475
chr19	73713	BC038663	Rbm20	Mus musc	310.5895	852.7968	1127.018
chr5	17329	BC003343	Cxcl9	Mus musc	29.9512	129.0115	82.1955
chr4	319743	AK052880	9630013D	Mus musc	36.9081	240.5121	101.2655
chr14	321019	BC052868	Gpr183	Mus musc	441.2409	1209.704	1719.097
chr19	68852	AK158268	Lrrn4cl	Mus musc	346.8888	1151.741	950.6855
chr4	18602	AK169844	Padi4	Mus musc	106.9378	294.3015	293.0395
chr13	11607	BC036175	Agtr1a	Mus musc	710.3035	1968.999	2039.118
chr11	20850	BC056647	Stat5a	Mus musc	516.8055	1925.138	1415.852
chr11	12514	AK170443	Cd68	Mus musc	1225.521	3854.244	3357.409
chr9	333424	AK136425	A4gnt	Mus musc	14.6513	63.1263	89.4835
chr11	209588	BC010462	Sectm1a	Mus musc	165.9873	454.6995	471.0549
chr17	78148	AK020236	8430430B	Mus musc	9.3456	25.5912	33.9806
chr10	14609	AY427561	Gja1	Mus musc	793.8916	2199.429	2291.54
chr6	57890	BC069861	Il17re	Mus musc	214.0114	650.5275	684.8995
chr8	434325	XM_48612	Tmem221	PREDICT	19.9245	54.5508	66.9258
chr19	226251	AK029371	Ablim1	Mus musc	142.3354	535.2975	389.6774
chrX	17698	AK031171	Msn	Mus musc	227.9855	624.1515	707.9215
chr6	319682	AK081964	D830026I1	Mus musc	13.9482	57.9332	65.0665
chr4	231002	BC051407	Plekhn1	Mus musc	796.5735	2205.996	2178.75
chr7	330662	AK147836	Dock1	Mus musc	278.7675	762.2132	763.4435
chr2	12509	NM_00111	Cd59a	Mus musc	403.8095	1319.884	1103.546
chr19	77059	AK016444	4931408D	Mus musc	76.9875	424.7175	210.3815
chr2	228151	BC120879	4833423E2	Mus musc	1567.126	5306.066	5356.499
chr6	17342	BC108977	Mitf	Mus musc	407.5127	1264.392	1430.709
chr14	638575	BC006743	Gm9779	Mus musc	73.4455	200.4195	226.7515
chr9	665033	AM748257	Gm7455	Mus musc	15.4469	61.7022	124.7455
chr7	11674	BC050896	Aldoa	Mus musc	11964.91	32618.42	32828.71
chr14	14714	BC116897	Gnrh1	Mus musc	112.6615	307.0515	309.2323
chr9	74090	AK052776	Paqr5	Mus musc	207.3806	565.1435	604.999
chr3	16842	AK169530	Lef1	Mus musc	155.9336	477.9525	424.8635
chr4	18028	AK148573	Nfib	Mus musc	386.7895	1053.837	1091.958
chr3	71862	AK154620	Gpr160	Mus musc	527.3612	1656.196	1436.488
chr11	328468	AK082866	C330046E	Mus musc	58.6662	237.8484	159.7075
chr19	54447	AK080951	Asah2	Mus musc	899.2175	2620.702	2651.169
chr7	72287	BC002120	Plekhf1	Mus musc	339.2015	1165.86	923.2444
chr13	218165	XM_00147	Ofcc1	PREDICT	31.9834	197.5685	157.7435
chr18	14164	BC037601	Fgf1	Mus musc	275.7865	750.3915	1006.82
chr17	78785	AK029962	Clip4	Mus musc	322.2045	876.5755	896.7575
chr1	13590	BC050221	Lefty1	Mus musc	24.7794	67.3958	72.9696
chrX	20843	AK077318	Stag2	Mus musc	88.0195	239.2793	257.1695
chr7	1E+08	XM_00147	Gm4413	PREDICT	125.2535	362.4595	340.4773
chr2	13482	AK164775	Dpp4	Mus musc	2372.684	7106.6	6447.326
chr9	102626	BC031467	Mapkapk3	Mus musc	1917.604	5420.048	5209.749



chr11	N/A	XM_98632	N/A	PREDICT	91.1815	247.6755	261.5764
chr11	207742	BC011216	Rnf43	Mus musc	113.4358	308.0235	391.4635
chr8	73609	AK015741	1700125H	Mus musc	69.2035	293.8175	257.4675
chr13	27052	AK152346	Aoah	Mus musc	124.3582	337.6275	414.4635
chr1	12633	BC023121	Cflar	Mus musc	589.5375	1600.275	1673.792
chr2	16658	BC038256	Mafb	Mus musc	2503.892	8019.044	8756.963
chr11	16204	BC119289	Fabp6	Mus musc	28.6788	77.8008	81.4535
chr14	70086	BC132414	Cysltr2	Mus musc	10.3091	27.9646	72.4177
chr9	12700	BC022178	Cish	Mus musc	527.9183	2724.572	1817.828
chr14	21745	BC082996	Tep1	Mus musc	546.8022	1719.966	1482.838
chr13	80898	BC046610	Erap1	Mus musc	594.7662	1890.295	1612.728
chr4	78611	AK141215	9530048O	Mus musc	431.6135	2043.974	1818.896
chr16	77647	BC104350	Trat1	Mus musc	49.9507	135.3875	141.6292
chr19	208449	AK082974	Sgms1	Mus musc	41.8943	113.5415	133.3415
chr9	16154	BC140355	Il10ra	Synthetic	307.8901	834.383	891.6035
chr2	545481	XM_61983	Gm14203	PREDICT	521.1604	1601.468	1811.62
chr6	73344	AK006598	1700034J	Mus musc	71.5516	196.4115	234.9367
chr2	18779	AK143853	Pla2r1	Mus musc	45.2518	122.542	160.4195
chr6	66857	AK170196	Plbd1	Mus musc	38.6416	104.6175	113.4175
chr6	16970	AK050646	Lmp	Mus musc	133.1775	360.4955	586.3175
chr2	228366	AK053214	Gylt1b	Mus musc	65.4879	190.9975	211.8293
chr16	67102	BC019957	D16Erd47	Mus musc	300.7255	813.7175	1067.857
chr17	27279	BC025860	Tnfrsf12a	Mus musc	133.5495	361.2386	694.8835
chr7	77938	BC035523	Fam53b	Mus musc	370.7929	1552.75	1002.824
chr7	11875	AJ295843	Art5	Mus musc	63.1099	170.6675	312.1768
chr8	16168	BC023698	Il15	Mus musc	63.4202	211.6635	171.4855
chr4	26561	BC107358	Mmp23	Mus musc	939.2295	3773.579	5143.932
chr12	74251	AK172167	Ankrd9	Mus musc	191.0955	545.1522	563.4298
chr13	493800	AK034200	933016201	Mus musc	145.4895	403.3975	392.6267
chr11	N/A	BC141532	N/A	Synthetic	484.7195	3278.18	1307.842
chr16	57781	BC052682	Cd200r1	Mus musc	68.5945	185.0615	317.9795
chr7	14132	AK152879	Fcgrt	Mus musc	4553.31	16782.94	13763.95
chr9	75723	AK016526	Amotl1	Mus musc	933.3156	2609.73	2910.054
chr15	13363	BC156112	Dhh	Synthetic	49.8152	135.0735	166.8215
chr7	11875	AJ297548	Art5	Mus musc	89.3355	240.8535	340.8595
chr8	69771	AK007545	1810019D	Mus musc	91.1422	265.4555	245.6184
chr2	11695	BC049786	Alx4	Mus musc	150.6515	1618.816	2695.044
chr16	N/A	AK131759	N/A	Mus musc	36.4501	263.7562	98.0715
chr11	52639	AK045131	Wipi1	Mus musc	214.2258	623.0468	576.1455
chr8	75767	AK014696	Rab11fip1	Mus musc	679.5292	2012.112	1826.874
chr5	100702	BC115768	Mpa2l	Mus musc	353.4935	1501.418	950.3135
chr7	50794	BC141513	Klf13	Synthetic	459.9217	1236.026	1419.11
chr4	18600	BC049947	Padi2	Mus musc	277.0995	744.2403	935.4035
chr15	223473	BC016107	Nipal2	Mus musc	1367.662	3673.06	3774.672
chr17	414070	BC026600	BC026600	Mus musc	75.3718	311.4615	258.4171
chr10	17110	BC061129	Lyz1	Mus musc	715.4775	2438.57	1920.688
chr7	18722	U96682	Pira1	Mus musc	38.879	104.3608	113.0135
chr7	20679	AK048143	Sox6	Mus musc	103.7069	334.4675	283.0175
chr1	19264	AK154893	Ptpnc	Mus musc	369.5585	991.7955	1073.379
chr3	N/A	AK172713	N/A	Mus musc	101.8015	299.2035	273.2075
chr18	338360	XM_14886	B430212C	PREDICT	12.4442	33.3903	36.8417
chr2	22403	BC032877	Wisp2	Mus musc	71.7576	192.5115	302.5355
chr7	16190	AK149717	Il4ra	Mus musc	52.4301	140.6595	175.8155

chr7	57442	BC004629	Kcne3	Mus musc	104.1971	447.3075	633.8445
chr16	1E+08	XM_00148	Gm4279	PREDICT	21.242	56.9687	67.9786
chr4	329954	BC108974	Catsper4	Mus musc	17.7601	50.5053	47.6255
chr6	24113	BC090635	Vax2	Mus musc	37.2588	99.8275	222.0278
chr10	23887	BC089585	Ggt5	Mus musc	91.2515	244.3965	265.5815
chr19	107243	AK029443	4833438C	Mus musc	118.1034	342.8435	316.2994
chr11	69583	AK170351	Tnfsf13	Mus musc	397.8655	1065.52	1176.992
chr18	18018	BC061509	Nfatc1	Mus musc	813.3675	2178.253	3111.84
chr1	15483	BC132364	Hsd11b1	Mus musc	26.8549	97.8086	71.9136
chr2	17289	AK030158	Mertk	Mus musc	857.6542	2295.896	2634.75
chr1	114564	BC071209	Csprs	Mus musc	15.9702	151.4915	42.7282
chr8	67528	AK011172	Nudt7	Mus musc	468.2955	4069.114	1252.816
chr3	14129	X70980	Fcgr1	M.musculu	417.4755	1156.786	1116.564
chr3	12481	BC053731	Cd2	Mus musc	52.7877	187.7035	141.1615
chr7	26367	BC024320	Ceacam2	Mus musc	33.3367	119.2335	89.1317
chr9	107993	AK134047	Bfsp2	Mus musc	33.8172	90.4115	95.1355
chr14	21745	AK087740	Tep1	Mus musc	54.413	145.4429	153.5612
chr16	12524	BC013807	Cd86	Mus musc	114.1375	305.0395	394.6435
chr1	53791	BC125240	Tlr5	Mus musc	303.1215	809.8975	849.7495
chr14	11727	AK171251	Ang	Mus musc	881.5575	2354.554	2654.448
chr15	N/A	AK164741	N/A	Mus musc	39.3022	104.9235	128.5155
chr19	114601	AK089917	Ehbp111	Mus musc	947.9495	2529.881	3342.272
chr12	217830	BC021385	9030617O	Mus musc	419.2706	1705.216	1118.9
chr10	16775	AK087015	Lama4	Mus musc	455.3645	1250.464	1215.025
chr17	381058	BC128471	Unc93a	Mus musc	74.1383	705.0155	197.7595
chr5	212285	XM_13209	Arap2	PREDICT	480.0925	1280.454	1417.525
chr3	12977	AK136808	Csf1	Mus musc	168.921	450.4555	522.6853
chr4	20148	BC008980	Dhrs3	Mus musc	585.8395	2190.978	1561.886
chr11	83813	BC029623	Tnk1	Mus musc	761.4515	2461.44	2356.428
chr15	207839	AK155008	Galnt6	Mus musc	503.6067	4757.188	4790.732
chr9	18854	AK052305	Pml	Mus musc	81.8785	218.0575	273.7935
chr13	78771	AK144765	Mctp1	Mus musc	6.8143	18.1449	22.2806
chr11	16859	BC003754	Lgals9	Mus musc	1939.776	6056.953	5164.472
chr11	18230	BC049614	Nxn	Mus musc	87.4475	232.8034	331.6534
chr2	19124	BC028755	Procr	Mus musc	476.7855	1269.035	1551.484
chr6	15170	BC012660	Ptpn6	Mus musc	1016.812	2706.304	2894.864
chr17	106628	AF502565	Trip10	Mus musc	574.7715	1549.798	1529.222
chr17	26382	BC021845	Fgd2	Mus musc	239.1375	667.2991	636.143
chr1	226525	AK164092	Rasal2	Mus musc	22.1594	58.9281	91.951
chr1	56489	BC037446	lkbke	Mus musc	344.869	917.0025	1025.3
chr6	22371	AK170399	Vwf	Mus musc	269.6957	1148.38	1407.386
chr1	15284	BC064068	Hlx	Mus musc	644.7915	2499.3	1873.131
chr4	20530	BC029183	Slc31a2	Mus musc	1177.759	3127.244	3287.826
chr9	23938	AK013856	Map2k5	Mus musc	11.2115	29.7683	40.1256
chr1	19264	M14343	Ptprc	Mouse Ly-	406.7475	1079.478	1296.628
chr5	212285	AK084988	Arap2	Mus musc	476.2802	1263.83	1365.329
chr19	668259	XM_00100	Gm9070	PREDICT	8.5447	22.6665	25.8934
chr15	75772	BC109360	Pnpla5	Mus musc	23.1994	61.5279	71.6336
chr17	20975	AF041861	Synj2	Mus musc	106.1429	309.6095	424.6635
chr14	624367	NR_00363	Gm6498	Mus musc	78.5706	233.1495	208.1835
chr15	105844	AF363456	Card10	Mus musc	783.0995	2074.61	2087.436
chr2	26360	AK011976	Angptl2	Mus musc	98.3575	260.3775	338.8388
chr4	21812	XM_98857	Tgfbr1	PREDICT	18.9614	50.186	62.0905



chr2	329384	BC098218	Pthr1	Mus musc	327.8655	867.7375	910.795
chr13	109254	AK135327	9530008L1	Mus musc	52.2705	166.3795	138.3347
chr19	240505	BC046418	Cdc42bpg	Mus musc	1220.796	3230.127	3438.659
chr4	74761	BC026438	Mxra8	Mus musc	1159.05	3064.846	3078.248
chr15	17886	BC128498	Myh9	Mus musc	638.1773	1907.838	1687.217
chr4	15530	M83997	Hspg2	Mus musc	1272.612	5444.962	5203.498
chr5	56743	BC005804	Lat2	Mus musc	896.9755	2370.946	3435.906
chr3	67547	BC006731	Slc39a8	Mus musc	1521.906	4020.862	4318.665
chr17	13078	AK139368	Cyp1b1	Mus musc	95.3935	331.1855	251.9814
chr4	77056	BC013471	Tmco4	Mus musc	148.9785	492.4195	393.5126
chr18	1E+08	XM_00147	Gm3171	PREDICTI	61.4464	427.9976	221.0195
chr11	338367	AK037051	Myo1d	Mus musc	292.0175	770.8715	884.9535
chr18	16774	X84013	Lama3	M.musculu	1795.596	6198.589	6100.806
chr9	19883	AK087905	Rora	Mus musc	1942.036	5120.812	5262.342
chr10	19683	AK149404	Rdh16	Mus musc	154.8755	457.3335	408.2815
chr19	381217	BC099492	Fam189a2	Mus musc	649.0955	1710.458	1943.536
chr16	210126	AK085876	Lpp	Mus musc	1617.276	4344.334	4845.73
chr13	218165	AF548110	Ofcc1	Mus musc	19.2886	82.0235	151.4152
chr2	20375	BC003815	Sfpi1	Mus musc	763.9286	2012.428	2125.102
chr3	229473	AK137619	D930015E	Mus musc	41.795	110.0935	112.5401
chr9	56857	BC038000	Slc37a2	Mus musc	454.3595	3670.306	4155.53
chr11	N/A	AK185198	N/A	Mus musc	446.5079	1197.836	1175.877
chr4	14590	NM_01028	Ggh	Mus musc	1097.746	2890.653	3095.588
chr16	13731	BC041670	Emp2	Mus musc	3885.308	10222.37	10853.29
chr12	263406	BC031136	Plekhg3	Mus musc	1061.984	2793.58	2852.986
chr7	65116	BC025098	Prrg2	Mus musc	1034.647	3223.942	2721.293
chr3	68151	AK031444	Gpr177	Mus musc	266.5855	700.8935	871.5055
chr13	78479	AK018965	1700119I1	Mus musc	8.0319	21.1046	23.1902
chr2	13392	BC094317	Dlx2	Mus musc	166.6855	437.9075	680.3175
chr2	12509	BC132089	Cd59a	Mus musc	938.3935	2971.722	2465.296
chr14	54159	BC117776	Ear5	Mus musc	25.9048	122.1155	68.0517
chr10	16404	BC152747	Itga7	Synthetic	988.5206	4307.28	3961.685
chr7	14256	L23636	Flt3l	Mouse flt3	219.7611	576.6275	577.6795
chr18	78065	AK008334	2010010A0	Mus musc	433.2355	1138.11	1136.48
chr9	235633	AK053076	Als2cl	Mus musc	560.5155	1586.608	1470.358
chr8	142980	AK171438	Tlr3	Mus musc	114.7015	303.1349	300.8582
chr9	12049	BC052690	Bcl2l10	Mus musc	12.3707	60.4369	57.7843
chr11	192897	AK140269	Itgb4	Mus musc	1277.303	3348.329	4036.576
chr13	212032	BC117860	Hk3	Mus musc	569.455	1492.36	1601.084
chr7	76453	AK006119	Prss23	Mus musc	3072.048	8048.92	10193.3
chr4	18028	AK087480	Nfib	Mus musc	449.6435	1184.828	1177.774
chrX	170743	AK154906	Tlr7	Mus musc	30.7214	80.4307	117.3415
chr6	19016	BC021798	Pparg	Mus musc	1561.468	18801.33	8995.256
chr6	23945	BC057965	Mgll	Mus musc	859.2371	3880.976	2247.422
chr9	16154	AK149680	Il10ra	Mus musc	270.4915	720.4415	707.4795
chr18	52662	AK040289	D18Ert65	Mus musc	24.955	65.2484	87.8635
chr7	23966	AK162046	Odz4	Mus musc	103.256	331.0615	269.8495
chr4	16847	BC082551	Lepr	Mus musc	604.6035	1580.012	3481.908
chr4	26970	BC027524	Pla2g2e	Mus musc	22.4352	60.5869	58.6078
chr11	15218	BC108980	Foxn1	Mus musc	539.8058	1770.59	2132.746
chr19	240539	XM_14060	Gm336	PREDICTI	1009.568	2984.428	3268.06
chr10	N/A	AK049433	N/A	Mus musc	112.8095	294.5615	336.9275
chr16	14525	BC099585	Gcet2	Mus musc	55.6917	295.7774	407.0246

chr7	71960	AY363100	Myh14	Mus musc	414.431	1082.024	1210.647
chr11	71576	XM_00100	9130409J2	PREDICTI	38.5113	167.3875	165.5695
chr4	320691	AK082693	C230088H	Mus musc	32.1779	167.4115	83.9871
chr9	12500	BC062807	Cd3d	Mus musc	18.3044	56.7729	47.7632
chr7	60594	AK029042	Capn12	Mus musc	110.3695	333.2315	287.9655
chr8	74166	BC014728	Tmem38a	Mus musc	2027.443	5287.383	6652.14
chr6	16543	AK134050	Mdfic	Mus musc	60.7229	158.3555	198.8875
chr7	N/A	AK144366	N/A	Mus musc	31.4454	88.3835	98.3607
chr7	26365	AB236331	Ceacam1	Mus musc	246.4311	1261.63	990.1235
chr17	14960	BC029620	H2-Aa	Mus musc	58.176	152.8761	151.4992
chr11	280408	BC119166	Rilp	Mus musc	189.209	1559.208	492.7155
chr12	20716	BC013651	Serpina3n	Mus musc	226.8975	590.8235	906.0449
chr12	15512	BC004714	Hspa2	Mus musc	697.1995	2525.452	2936.764
chr14	57746	BC145717	Piwil2	Mus musc	23.1786	60.3202	108.2755
chr10	14609	AY427559	Gja1	Mus musc	688.7015	1840.876	1791.886
chr1	13924	BC156150	Ptpv	Synthetic	73.7815	194.7574	191.9535
chr4	18028	AK034793	Nfib	Mus musc	780.8485	2124.076	2031.267
chr4	68016	BC089601	Murc	Mus musc	585.7175	3868.488	4524.358
chr9	333424	BC115614	A4gnt	Mus musc	27.4304	210.0956	214.3355
chr9	12362	BC008152	Casp1	Mus musc	253.6275	670.7635	659.5951
chr14	1E+08	XM_00147	Gm2626	PREDICTI	40.9263	106.3295	170.0695
chr11	208634	BC019991	Tspan10	Mus musc	90.5463	471.1255	529.1475
chr6	57890	AK078876	Ii17re	Mus musc	113.8115	295.4515	295.5884
chr8	257632	AK089390	Nod2	Mus musc	13.4036	34.7863	44.3679
chr17	20975	AK163512	Synj2	Mus musc	360.3067	935.0475	1101.561
chr4	18600	BC040350	Padi2	Mus musc	204.8802	531.4115	597.0169
chr19	18034	AK145312	Nfkb2	Mus musc	537.9836	1395.146	1557.636
chr10	17155	AK172667	Man1a	Mus musc	25.2311	65.404	77.0955
chr6	11746	AK168917	Anxa4	Mus musc	4139.444	10956.77	10729.27
chr1	214855	AK156622	Arid5a	Mus musc	306.3741	793.8335	1069.604
chr11	217198	AK154510	Plekhh3	Mus musc	435.8735	1172.363	1129.254
chr17	1E+08	XM_00147	Gm3417	PREDICTI	32.6764	84.6395	93.1716
chrX	1E+08	XM_00147	Gm4055	PREDICTI	122.6275	317.5785	353.2175
chr7	13032	AK152524	Ctsc	Mus musc	854.1119	2211.934	2317.562
chr17	27361	AK003112	Sepx1	Mus musc	493.5735	1278.158	1292.238
chr7	54378	BC115456	Cacng6	Mus musc	215.6215	558.3455	779.1175
chr17	213389	XM_61943	Prdm9	PREDICTI	250.9475	908.2335	649.7925
chr1	14131	AK163401	Fcgr3	Mus musc	12.194	31.5629	49.3562
chr4	230451	AK076859	BC042782	Mus musc	51.8585	134.2175	158.4375
chr4	22004	BC024358	Tpm2	Mus musc	2288.12	5921.082	8594.158
chr16	12053	BC052315	Bcl6	Mus musc	773.9135	3276.364	2002.607
chr6	208079	AK079908	A530053G	Mus musc	5.9477	234.6695	15.3876
chr5	56221	BC065389	Ccl24	Mus musc	131.2395	339.5345	395.4595
chr12	238455	AK028965	Macc1	Mus musc	391.5075	1012.811	1051.036
chr4	414068	BC024582	BC024582	Mus musc	8.1286	21.0195	34.0336
chr6	231991	AK170128	Creb5	Mus musc	16.8311	43.5119	55.5803
chr12	104759	AK151551	Pld4	Mus musc	1565.898	4123.199	4048.032
chr7	101488	AK132394	Slco2b1	Mus musc	1307.09	3997.16	3378.831
chr16	67102	AK009258	D16Ert47	Mus musc	551.2635	1685.358	1886.02
chr7	64661	BC132510	Krtdap	Mus musc	7518.688	19992.08	19408.23
chr11	214112	BC139819	Nipal4	Mus musc	940.4873	2454.924	2427.588
chr4	21898	BC029856	Tlr4	Mus musc	182.1051	469.9572	561.8475
chr9	15586	BC021636	Hyal1	Mus musc	673.6775	1737.822	1737.652

chr16	208650	AK045005	Cblb	Mus musc	140.6355	362.6435	417.6475
chr6	16970	BC052909	Lrmp	Mus musc	249.8115	644.0375	976.0595
chr11	77864	BC121190	Ypel2	Mus musc	734.4415	2007.992	1893.362
chr13	68750	AY946044	Rreb1	Mus musc	553.8802	1460.387	1427.876
chrX	22441	BC005560	Xlr	Mus musc	34.7425	89.5481	104.2155
chr10	14632	AK157048	Gli1	Mus musc	76.6657	228.204	255.6923
chr16	16509	X60457	Kcne1	M.musculu	37.7183	105.9615	97.2075
chr4	666513	XM_98433	Gm11787	PREDICTI	30.8322	115.2395	79.4555
chr1	18106	AK033178	Cd244	Mus musc	16.8065	43.3075	65.2472
chr1	21961	BC052740	Tns1	Mus musc	3475.252	10264.62	8953.656
chr2	20163	AK135491	Rsu1	Mus musc	113.2062	291.6415	345.6355
chr1	16763	BC016257	Lad1	Mus musc	2224.025	5727.268	6420.34
chr4	100198	BC042677	H6pd	Mus musc	1736.896	4608.144	4467.7
chr11	68385	BC039182	Tlcd1	Mus musc	810.5975	2978.536	2420.022
chr4	20148	BC010972	Dhrs3	Mus musc	2708.171	10160.32	6965.736
chr10	114671	XM_12551	4930444G	PREDICTI	22.7786	58.589	60.345
chr11	66599	BC026811	Rdm1	Mus musc	854.9243	2343.706	2198.656
chr17	193740	BC054782	Hspa1a	Mus musc	493.3555	1268.039	1838.874
chr4	12262	BC043945	C1qc	Mus musc	3064.086	8759.55	7873.432
chr12	666356	XM_98327	Gm8060	PREDICTI	13.0082	47.1668	33.4202
chr18	60440	AK172047	ligp1	Mus musc	8.8802	22.798	24.6585
chr3	67414	AK046313	Mfn1	Mus musc	18.3654	47.3432	47.136
chr17	638247	AK079285	9530082P2	Mus musc	125.2195	353.9915	321.3455
chr15	223870	AK138013	Senp1	Mus musc	33.0211	84.7235	104.0455
chr4	12795	BC031180	Plk3	Mus musc	129.2169	332.6915	331.4115
chr1	20846	AK088874	Stat1	Mus musc	16.185	49.6702	41.4795
chr9	13036	AK167498	Ctsh	Mus musc	3404.258	8723.958	9494.724
chr17	320148	BC146437	B430306N	Synthetic	27.293	118.2795	69.9402
chr3	66659	BC047276	Acp6	Mus musc	671.1395	1881.981	1719.711
chr18	225182	AK048254	Rbbp8	Mus musc	53.0062	135.8115	163.8921
chr3	319224	AK031828	6330410L2	Mus musc	8.9108	27.1379	30.8028
chr7	26362	AK033237	Axl	Mus musc	43.4654	111.3155	172.9735
chr3	71760	BC058592	Agxt2l1	Mus musc	15.3988	58.9713	39.4146
chr9	74080	AK016744	Nmnat3	Mus musc	23.9749	61.3546	71.1076
chr18	667597	XM_00147	BC023105	PREDICTI	12.4317	45.181	31.7992
chrX	667383	XM_99024	Gm650	PREDICTI	15.654	40.0412	45.2508
chr2	16420	AK085900	Itgb6	Mus musc	17.3901	48.2996	44.442
chr11	14786	BC003295	Grb7	Mus musc	578.3915	1477.892	1534.139
chr16	17250	BC090617	Abcc1	Mus musc	1099.858	2808.752	3119.98
chr3	53868	BC006624	Rab25	Mus musc	3906.428	10294.97	10220.41
chr14	210789	AK171689	Tbc1d4	Mus musc	2319.132	7337.86	6083.61
chr18	626327	XM_89092	Gm6665	PREDICTI	3518.376	9077.431	8982.008
chr11	1E+08	AK140292	B230344G	Mus musc	23.9528	61.1367	94.1995
chr4	12260	BC067001	C1qb	Mus musc	3039.183	8495.161	7756.604
chr14	105559	AK164372	Mbnl2	Mus musc	854.6421	2180.893	2208.74
chr7	11535	BC052665	Adm	Mus musc	179.3569	457.6175	584.0015
chr2	215632	AK169859	Psd4	Mus musc	976.7226	2491.566	2512.338
chr7	18442	AK155562	P2ry2	Mus musc	67.5273	172.2548	185.2902
chr10	109272	AK132188	Mybpc1	Mus musc	6345.098	30495.69	35333.34
chr5	338350	AK033963	9330129D	Mus musc	239.3475	1773.529	610.3605
chr14	58809	BC005569	Rnase4	Mus musc	3109.435	7928.812	8585.824
chr14	21834	AK158826	Thrb	Mus musc	259.8555	1001.832	662.4595
chr3	12870	AK149523	Cp	Mus musc	18.2577	69.053	46.5086

chr5	71985	AK010568	Acad10	Mus musc	384.7961	3348.16	980.1515
chr15	70152	BC055034	Mettl7a1	Mus musc	1120.55	4780.594	3188.61
chrUn_ran	625360	NM_00103	LOC62536	Mus musc	13.8101	35.1546	35.4679
chr17	240174	AK173258	Thada	Mus musc	27.116	69.0017	87.1735
chr9	235344	AK041032	Sik2	Mus musc	151.7755	720.5255	414.9015
chr17	70274	BC132420	Ly6g6e	Mus musc	307.6781	810.0715	782.2912
chr9	67776	BC065153	Vwa5a	Mus musc	543.8395	1382.298	1745.118
chr6	27056	AK171356	Irf5	Mus musc	36.1479	91.8715	98.8674
chr9	26944	AK008374	Tinag	Mus musc	38.5962	98.0581	99.9355
chr14	N/A	BC118921	N/A	Mus musc	247.7215	629.3355	853.4395
chr19	69745	AK170469	Pold4	Mus musc	230.5604	585.6652	653.5395
chr4	230806	AK155034	Aim1l	Mus musc	51.1001	129.7755	137.1375
chr7	101488	BC096485	Slco2b1	Mus musc	1348.913	4248.242	3422.888
chr14	11534	AK032871	Adk	Mus musc	35.322	89.6235	140.7314
chr1	20339	BC119083	Sele	Mus musc	81.1576	269.9535	403.7278
chr3	56758	AK153827	Mbnl1	Mus musc	1549.576	3930.671	4473.442
chr6	11746	AK132293	Anxa4	Mus musc	3442.182	8746.942	8728.562
chrX	22673	NM_00110	Zfp185	Mus musc	2294.51	6200.56	5817.97
chr16	12394	AK165307	Runx1	Mus musc	869.6895	2204.994	2902.246
chr7	20866	AK177905	Stim1	Mus musc	1731.98	4386.946	4671.636
chr6	12504	BC039137	Cd4	Mus musc	112.3079	284.4195	376.1227
chr16	N/A	AK089379	N/A	Mus musc	38.535	97.5775	97.9388
chr10	216350	BC029808	Tspan8	Mus musc	52.1166	131.9595	221.8835
chr2	67512	AK090271	Agpat2	Mus musc	96.3881	661.5875	244.0426
chr4	16847	AK155891	Lepr	Mus musc	48.5585	122.9055	275.6438
chr8	70192	AK010071	Cd209g	Mus musc	52.3269	132.4415	146.7955
chr4	230883	NM_00108	Aadacl3	Mus musc	10.7146	27.116	72.3656
chr11	18413	BC099866	Osm	Mus musc	14.1818	44.0469	93.8115
chr6	76263	BC058163	Gstk1	Mus musc	652.8318	2221.317	1652.016
chr15	17972	BC025517	Ncf4	Mus musc	125.7675	404.2255	318.1579
chr7	77938	AK031576	Fam53b	Mus musc	1433.404	4690.176	3625.272
chr11	72469	AK166977	Plcd3	Mus musc	115.8775	402.2255	292.7395
chr4	16600	BC010301	Klf4	Mus musc	4116.448	10755.24	12478.64
chr4	26971	BC125567	Pla2g2f	Mus musc	5118.98	13931.89	14834.74
chr1	N/A	AK039780	N/A	Mus musc	13.7129	38.929	34.626
chr2	1E+08	XM_00148	LOC10004	PREDICTI	11.2115	36.9434	28.2993
chr13	71390	AK017337	5430425J1	Mus musc	7.8504	54.6527	60.0851
chr10	103213	BC096483	Traf3ip2	Mus musc	1275.017	3215.692	3303.198
chr13	1E+08	XM_00147	1E+08	PREDICTI	19.0485	48.0347	50.186
chr8	382045	AK156609	Gpr114	Mus musc	16.2419	40.946	51.2737
chr3	630146	XM_00147	Igsf2	PREDICTI	63.4202	275.9795	243.6555
chr10	58223	BC112966	Mmp19	Mus musc	1026.49	4554.988	5508.362
chr6	12180	U76371	Smyd1	Mus musc	721.9636	1819.008	2155.676
chr10	270757	BC112376	Bpil2	Mus musc	2605.958	8912.289	8737.056
chr9	15235	BC010551	Mst1	Mus musc	112.3195	282.9455	309.1995
chr15	12818	AK052963	Col14a1	Mus musc	2425.394	6170.862	7416.571
chr17	21425	AK195221	Tcfef	Mus musc	108.1373	335.7095	272.282
chr14	66214	BC049580	1190002H	Mus musc	547.855	3693.513	1379.244
chr17	14962	BC005451	Cfb	Mus musc	701.5355	1928.154	1765.736
chr8	16363	AK158642	Irf2	Mus musc	88.4588	225.2355	222.6275
chr2	215632	AK043669	Psd4	Mus musc	922.2034	2320.718	2397.672
chr11	14584	BC031928	Gfpt2	Mus musc	754.9695	2335.81	1899.305
chr17	246707	BC053753	Emilin2	Mus musc	2262.502	5691.588	6133.361

chr2	319876	AK037010	Cobll1	Mus musc	594.5935	1582.895	1495.648
chr7	381924	BC148415	Itgad	Synthetic	24.6126	61.9085	88.4853
chr4	56226	AK146701	Espn	Mus musc	21.8679	54.9943	66.0719
chr19	54445	BC023731	Unc93b1	Mus musc	429.9976	1228.294	1080.69
chr3	1E+08	AK039813	Gm15234	Mus musc	109.5865	344.2755	275.3495
chr1	109032	BC039938	Sp110	Mus musc	262.7415	805.3228	660.1015
chr6	11746	AK032703	Anxa4	Mus musc	27.8639	69.9956	72.1298
chr9	12364	AK053407	Casp12	Mus musc	20.1256	50.5551	97.6615
chr6	17342	AK155350	Mitf	Mus musc	481.3915	1524.021	1663.498
chr1	70800	AK014513	4631405K	Mus musc	105.7066	455.6915	265.358
chrX	17772	BC090984	Mtm1	Mus musc	319.4471	1204.44	801.7275
chr19	225884	BC021614	BC021614	Mus musc	33.7938	112.5435	84.8051
chrX	414104	AK135675	E330016L	Mus musc	7.8058	38.6175	19.5882
chr8	1E+08	XM_00147	Gm4092	PREDICT	170.8575	574.0904	428.7035
chr3	20763	BC141457	Sprr2i	Synthetic	365.0935	2822.82	2437.531
chr2	16658	BC016434	Mafb	Mus musc	2785.386	8719.533	9472.956
chr13	72061	BC027288	20101110	Mus musc	537.5275	1347.776	1653.584
chr15	57248	BC125350	Ly6i	Mus musc	121.3633	697.8535	304.2664
chr17	14969	M12826	H2-Eb1	Mouse MH	210.9192	568.7135	528.6995
chr7	235712	BC064040	Mrgpra2	Mus musc	8.2241	41.428	33.9986
chr12	319565	AK145252	Syne2	Mus musc	990.4382	2493.743	2481.424
chr1	54139	AK037932	Irf6	Mus musc	136.9521	342.9955	374.9755
chrX	94190	AK077982	Ophn1	Mus musc	7.3438	18.3894	26.4133
chr7	66853	AK076464	Pnpla2	Mus musc	31.5936	423.3637	118.7955
chr3	68151	AK159977	Gpr177	Mus musc	416.6415	1043.024	1179.558
chr2	1E+08	XM_00147	Gm3230	PREDICT	22.7271	56.8888	66.2839
chr1	226422	AK079752	Rab711	Mus musc	421.6835	1055.432	1087.766
chr14	11752	BC013271	Anxa8	Mus musc	5932.108	15832.26	14843.87
chr16	223978	AK041329	Cpped1	Mus musc	51.8086	138.9693	129.6395
chr11	217198	BC020025	Plekhh3	Mus musc	397.1415	1010.34	993.5815
chrX	215201	AK046928	Trmt2b	Mus musc	143.1795	358.1974	429.9511
chr2	72401	AK165374	Slc43a1	Mus musc	33.7591	84.4455	95.2635
chr14	1E+08	XM_00147	Gm3154	PREDICT	16.5214	41.322	45.7844
chr11	18604	BC021764	Pdk2	Mus musc	4519.214	16292.1	11299.81
chr17	78512	AK077272	3300005D	Mus musc	8.0381	22.5324	23.4645
chr8	15936	BC002067	Ier2	Mus musc	743.3855	1858.33	2016.256
chr19	72691	BC019197	Calhm2	Mus musc	284.3715	710.6715	918.0537
chr5	11409	BC016259	Acads	Mus musc	865.0595	7519.39	2161.248
chr11	1E+08	XM_00147	A430060F	PREDICT	16.8524	46.4506	77.1767
chr16	68841	AK004252	1110054M	Mus musc	129.3524	418.3317	322.9955
chr17	625018	X06454	C4a	Mouse mF	66.4119	173.9255	165.7755
chr19	114601	AF305087	Ehbp111	alt 'G4300	1888.886	4713.672	5894.03
chr11	18626	AK081813	Per1	Mus musc	254.5482	864.2295	634.8755
chr15	20491	BC032922	Sla	Mus musc	461.3289	1150.611	1406.908
chr8	1E+08	XM_00147	Gm4021	PREDICT	21.6034	53.8754	68.2565
chr3	67583	AK006978	4930442L	Mus musc	16.7356	48.8299	41.7265
chr1	22145	BC019959	Tuba4a	Mus musc	5285.264	13177.4	14884.61
chr17	15937	BC006950	Ier3	Mus musc	157.9863	402.4855	393.6775
chr19	107375	AK170869	Slc25a45	Mus musc	197.2595	518.5041	491.4433
chr14	11727	BC055355	Ang	Mus musc	47.66	118.7347	140.6234
chr16	21844	AK017465	Tiam1	Mus musc	360.1335	897.149	958.1455
chr12	24000	AK030456	Ptpn21	Mus musc	64.958	161.7784	237.8073
chr5	56066	BC025903	Cxcl11	Mus musc	8.3006	52.765	20.6658

chr9	211586	AK162972	Tfdp2	Mus musc	316.854	788.6635	844.5847
chr2	64685	BC002019	Nmi	Mus musc	645.5715	1606.518	1676.908
chr3	18160	BC110659	Npr1	Mus musc	1209.535	5314.224	3009.815
chr12	195733	AK161048	Grhl1	Mus musc	4167.224	10368.46	10712.5
chr16	21844	AK034803	Tiam1	Mus musc	1028.828	2843.36	2559.5
chr9	17874	BC005591	Myd88	Mus musc	2235.944	5561.68	5667.794
chr12	104759	BC058565	Pld4	Mus musc	732.2967	2035.16	1821.418
chr5	69820	AK007907	1810059H	Mus musc	127.7215	386.6755	317.6095
chr1	17087	BC116785	Ly96	Mus musc	156.2635	388.4595	446.0199
chr15	1E+08	AK133718	5430421N	Mus musc	20.146	50.0704	55.7898
chr19	21416	AK132465	Tcf7l2	Mus musc	143.0073	355.3675	382.8515
chr1	N/A	AK149537	N/A	Mus musc	19.4456	48.3106	50.0704
chr2	74030	BC005529	Rin2	Mus musc	1454.274	3742.204	3612.872
chr15	75475	BC025120	Oplah	Mus musc	759.9075	5128.068	1887.724
chr17	106628	AY081142	Trip10	Mus musc	1743.578	4638.014	4330.958
chr4	1E+08	XM_00147	Gm12551	PREDICT	127.0115	315.4875	357.1215
chr13	53880	NM_02154	Naip7	Mus musc	76.6738	190.3748	216.3935
chr6	171095	AK075634	Il17rc	Mus musc	400.0225	1049.68	993.1295
chr2	71198	XM_99121	Otud1	PREDICT	419.2055	1040.722	1281.006
chr7	319930	BC109333	Ceacam19	Mus musc	1505.048	3749.383	3926.981
chr16	54613	AK194005	St3gal6	Mus musc	200.4595	676.8275	497.5415
chr10	15979	BC132599	Ifngr1	Mus musc	2157.184	7456.876	5353.208
chr5	320454	BC118611	9930032O	Mus musc	7.4393	20.9381	36.4698
chr9	235527	BC052067	Plscr4	Mus musc	64.5361	160.0995	276.4715
chr7	N/A	AK199874	N/A	Mus musc	80.9934	240.9515	200.8427
chr14	1E+08	XM_00148	Gm4685	PREDICT	149.1522	419.5695	521.6695
chr1	16177	AK048550	Il1r1	Mus musc	1311.624	3249.304	4180.064
chr8	16453	AK088365	Jak3	Mus musc	590.0275	2004.105	1460.646
chr1_randc	620078	AK163394	C130026I2	Mus musc	205.9502	745.1035	509.8115
chr13	328264	BC134405	Gm5084	Mus musc	30.9409	142.6635	286.6895
chr12	382639	XM_00147	Zbtb42	PREDICT	188.9195	467.4883	476.7735
chr4	74735	BC119130	Trim14	Mus musc	124.3675	452.1455	307.6835
chr6	N/A	AK037453	N/A	Mus musc	105.1055	313.9355	259.9095
chr6	330256	AK035387	9530028C	Mus musc	634.2938	1568.393	1883.992
chr9	67776	BC004727	Vwa5a	Mus musc	1912.825	4729.474	5553.204
chr17	17929	AK052539	Myom1	Mus musc	51.9267	128.3655	216.0067
chr10	216453	BC156948	Rdh19	Synthetic	46.1587	114.0023	114.6195
chr3	65086	BC125460	Lpar3	Mus musc	235.0955	580.5035	612.3688
chr9	16949	BC037999	Lox1l	Mus musc	3586.945	9391.712	11420.41
chr2	269328	BC020027	Muc15	Mus musc	687.3015	1903.136	1695.668
chr6	232201	AK159598	Arhgap25	Mus musc	351.7655	888.7775	867.5375
chr7	243978	AK148153	Mrgprx2	Mus musc	6.9111	155.5815	265.7055
chr14	58809	BC061105	Rnase4	Mus musc	3737.628	9215.644	9237.828
chr14	210789	AK047705	Tbc1d4	Mus musc	1457.684	4792.816	4022.118
chr1	N/A	AK145464	N/A	Mus musc	33.4616	82.4735	88.6009
chr13	19766	AK048989	Ripk1	Mus musc	54.97	135.4838	143.6235
chr7	74134	BC064733	Cyp2s1	Mus musc	1813.792	6752.328	6956.598
chr4	13117	AB017785	Cyp4a10	Mus musc	7.3824	47.9809	20.2472
chr6	243771	BC120733	Parp12	Mus musc	2134.03	5336.902	5258.202
chr7	26365	AK085749	Ceacam1	Mus musc	175.0195	717.0775	431.215
chr4	68859	AK002541	1190007FC	Mus musc	660.8395	1692.314	1627.44
chr7	20866	AK191080	Stim1	Mus musc	2696.694	6640.965	7278.727
chr1	11790	NM_00108	Speg	Mus musc	1834.22	4516.928	6207.99

chr7	11674	AK154295	Aldoa	Mus musc	1026.969	2734.784	2528.248
chr3	80891	AY506557	Fcrls	Mus musc	33.2537	81.8515	116.6775
chr9	235633	AK131149	Als2cl	Mus musc	347.0195	954.2119	854.0798
chr4	329919	EU099300	Skint2	alt 'A4300	238.2054	757.3235	586.1005
chr17	15039	BC003819	H2-T22	Mus musc	876.9095	2157.586	2301.608
chr15	68607	AK154770	Serhl	Mus musc	168.6275	618.9815	455.9135
chr13	114304	BC010472	Slc28a3	Mus musc	84.0955	586.5375	631.0764
chr15	68607	BC046342	Serhl	Mus musc	1871.8	6762.79	4937.316
chr7	16170	AK137237	Il16	Mus musc	12.6537	31.1076	31.1016
chr19	240672	XM_14074	Dusp5	PREDICT	94.5627	232.4115	278.6272
chr13	72061	AK086954	20101110	Mus musc	1136.914	2794.243	2970.538
chr11	320040	BC148491	Rnf222	Synthetic	86.7035	213.0715	248.6236
chr10	14160	BC156649	Lgr5	Synthetic	1274.079	3678.334	4768.933
chr17	14972	BC011306	H2-K1	Mus musc	2652.036	7324.886	6514.192
chr12	20700	BC011040	Serpina1a	Mus musc	57.1979	140.3975	166.0195
chr16	59083	BC018341	Fetub	Mus musc	21.5075	52.791	116.5776
chr12	20715	BC119537	Serpina3g	Mus musc	150.962	380.8255	370.1795
chr2	13482	AK163085	Dpp4	Mus musc	41.9852	102.9405	110.5475
chr17	20975	AY823997	Synj2	alt 'A14816	563.0889	1380.588	1584.482
chr9	22003	AK002271	Tpm1	Mus musc	8520.31	20884.44	23124.93
chr3	20200	BC010774	S100a6	Mus musc	2888.428	7079.428	8537.546
chr11	76293	AK075659	Mfap4	Mus musc	2208.084	6095.64	8684.476
chr16	73761	AK014704	4833415N	Mus musc	101.1215	272.2615	334.9455
chr13	17951	BC070433	Naip5	Mus musc	59.6692	146.1743	205.4495
chr16	207781	BC043688	C2cd2	Mus musc	1932.906	4734.452	4920.428
chr2	N/A	BC053341	N/A	Mus musc	901.3355	2225.646	2206.776
chr11	246746	BC057864	Cd300lf	Mus musc	40.6513	139.8829	106.1174
chr11	17913	BC021481	Myo1c	Mus musc	1074.658	2665.086	2630.794
chr13	66129	AK168581	1110018J1	Mus musc	658.0502	2092.004	1952.472
chr10	16773	AK080131	Lama2	Mus musc	22.3847	54.7886	103.3575
chr5	622127	NM_00110	Cyp3a57	Mus musc	10.776	26.3588	32.197
chr1	89867	AK173302	Sec16b	Mus musc	253.4835	671.887	833.7135
chr8	52815	BC039155	Ldhd	Mus musc	84.1075	666.7345	205.6315
chr19	226251	AK171860	Ablim1	Mus musc	85.8595	284.8202	235.4495
chr13	218203	BC010206	Mylip	Mus musc	1272.349	3109.411	3215.522
chr11	72947	BC024461	Agxt2l2	Mus musc	878.6998	2598.114	2146.932
chr13	192657	AK033541	Eil2	Mus musc	66.6158	296.7935	313.7215
chr15	11732	BC054379	Ank	Mus musc	863.4492	2109.1	2154.448
chr15	17972	AK170854	Ncf4	Mus musc	140.4375	356.3374	342.9575
chr2	215632	BC068231	Psd4	Mus musc	416.211	1016.358	1020.78
chr8	208936	AK081122	Adamts18	Mus musc	48.2698	117.8455	195.5195
chr16	68172	BC023885	Rpl39l	Mus musc	64.4356	157.3095	277.7515
chr17	78785	BC035226	Clip4	Mus musc	1476.422	3603.845	4060.999
chr9	18577	AK170579	Pde4a	Mus musc	24.1041	113.5935	58.8316
chr1	16177	BC109135	Il1r1	Mus musc	1104.074	2694.604	2963.607
chr11	75573	AK009213	2310007L2	Mus musc	42.11	102.5744	122.5255
chr6	93838	BC075680	Dqx1	Mus musc	134.2675	360.7453	335.9495
chr17	16988	AF000428	Lst1	Mus musc	143.1315	348.6035	470.2071
chr7	76681	BC094899	Trim12	Mus musc	461.4555	1125.982	1123.343
chr18	19201	AK031963	Pstpip2	Mus musc	49.4459	120.3675	127.7875
chr11	69583	BC069900	Tnfsf13	Mus musc	409.6455	1047.681	996.8877
chr15	N/A	AK042292	N/A	Mus musc	37.1062	90.2955	123.6255
chr17	N/A	BC049966	N/A	Mus musc	127.5115	310.2795	462.0175

chr18	64291	AK161374	Osbpl1a	Mus musc	30.3332	122.9038	73.7995
chr4	67389	BC026939	Fam132a	Mus musc	2666.314	8122.726	7597.526
chr3	23844	BC028343	Clca3	Mus musc	11.7235	28.5182	78.0035
chr11	268480	BC130266	Rapgef1	Mus musc	1423.156	3542.838	3461.302
chr13	27052	AK152985	Aoah	Mus musc	39.4146	95.8435	132.1314
chr3	1E+08	XM_00147	Gm15264	PREDICT	180.3135	495.6275	438.4455
chr3	72121	BC043727	Dennd2d	Mus musc	284.8835	742.5775	692.6515
chr11	23964	AK031198	Odz2	Mus musc	106.6355	259.2195	268.3935
chrX	408193	BC153817	Otud6a	Mus musc	9.6265	29.6213	54.7587
chr17	14294	BC146407	Fpr3	Synthetic	14.8908	59.6992	36.1927
chr3	229473	AK153996	D930015E	Mus musc	309.1555	782.5135	751.4095
chr9	74080	BC005737	Nmnat3	Mus musc	537.4435	2582.722	1682.318
chr5	231832	AK148454	Tmem184a	Mus musc	278.6475	749.3095	676.8275
chr1	20846	AK046517	Stat1	Mus musc	1616.336	5216.374	3925.546
chr18	69190	AK140643	Dym	Mus musc	109.2989	265.3988	278.3075
chr6	320786	AK046553	B430006D	Mus musc	162.0855	393.0615	457.8435
chr19	21416	AY072035	Tcf7l2	Mus musc	122.7195	297.5955	371.6037
chr2	16403	BC024571	Itga6	Mus musc	2667.75	6468.738	6781.744
chr7	74206	AK041920	Sipa1l3	Mus musc	218.9275	530.7915	541.9675
chr2	208618	AK158471	Etl4	Mus musc	13.2162	32.0405	47.9091
chr7	20866	BC021644	Stim1	Mus musc	2730.653	7485.606	7691.348
chr2	667103	XM_98833	Gm13570	PREDICT	48.6006	117.8135	216.7235
chr1	20846	BC004808	Stat1	Mus musc	2067.556	7474.917	5009.69
chr15	20491	AK041565	Sla	Mus musc	567.9792	1376.208	1434.043
chr4	23833	BC027495	Cd52	Mus musc	145.6595	430.1535	352.7475
chr2	209378	BC043314	Itih5	Mus musc	2445.28	8533.654	12162.24
chr11	67473	BC031436	Slc47a1	Mus musc	265.0076	641.6715	907.7982
chr16	77647	BC104351	Trat1	Mus musc	12.9882	31.437	49.9507
chr10	19272	AK078614	Ptprk	Mus musc	53.5639	129.5855	147.6975
chr11	12295	AK036404	Cacnb1	Mus musc	741.1394	3340.206	4554.372
chr14	18792	BC120709	Plau	Mus musc	540.9635	1308.37	1558.928
chr10	67282	BC029256	Ccdc53	Mus musc	196.7908	485.8835	475.8895
chr11	14786	BC081547	Grb7	Mus musc	105.0277	273.0635	253.9455
chr16	N/A	AK132682	N/A	Mus musc	15.4993	37.4747	40.0391
chr2	12505	X66084	Cd44	M.musculu	1394.572	3931.636	4467.311
chr3	229227	AK086976	4932438A	Mus musc	110.6971	267.5995	295.1707
chr7	55942	BC016077	Sertad1	Mus musc	562.5415	1359.32	1636.974
chr5	330217	AK138993	Gal3st4	Mus musc	904.8595	2186.404	2299.578
chr19	N/A	AK041142	N/A	Mus musc	9.8253	31.0335	23.737
chr11	544767	XM_62213	Gm5782	PREDICT	5.9319	14.3259	20.8792
chr14	N/A	NM_14546	N/A	Mus musc	4186.146	10109.36	10824
chr2	214239	BC075684	A43010511	Mus musc	238.4296	1131.225	1124.618
chr1	68393	BC106135	Mogat1	Mus musc	27.6842	141.9853	66.8398
chr11	11890	BC011197	Asgr2	Mus musc	21.4496	51.7767	71.8376
chr3	1E+08	BC099393	Sprr2a3	Mus musc	604.7617	4925.204	4117.946
chr17	N/A	BC096411	N/A	Mus musc	44.006	106.2036	139.8995
chr11	432555	AK165745	Gm5431	Mus musc	50.7852	122.5215	131.4915
chr1	19253	BC008512	Ptpn18	Mus musc	83.6615	250.6795	201.8215
chr4	18028	AK034261	Nfib	Mus musc	97.1955	234.4515	272.7869
chr7	16411	BC057200	Itgax	Mus musc	9.4791	22.8582	24.2047
chr1	11910	BC019946	Atf3	Mus musc	215.0398	518.5062	705.4217
chr19	621603	AK136505	Aldh3b2	Mus musc	4149.034	11616.6	10349.03
chr12	N/A	BC055474	N/A	Mus musc	195.5895	478.3631	471.5295



chr4	1E+08	XM_00147	Mup11	PREDICT	28.8951	293.2035	69.6291
chr16	67896	AK144183	Ccdc80	Mus musc	4162.626	12539.03	16084.91
chr17	13177	BC022712	Dci	Mus musc	2361.824	23142.46	5761.786
chr6	N/A	AK134119	N/A	Mus musc	17.8846	43.0744	48.8697
chr3	72121	NM_00109	Dennd2d	Mus musc	678.0268	1948.182	1632.291
chr5	231655	AK172183	Oasl1	Mus musc	13.9315	66.6358	33.4962
chr14	N/A	AK183377	N/A	Mus musc	82.3526	197.9877	213.9135
chr6	620104	XM_00147	Gm6127	PREDICT	20.3881	49.8569	49.0141
chr9	58233	AB032401	Dnaja4	Mus musc	1553.846	3735.446	4722.287
chr1	227231	BC126969	Cps1	Mus musc	67.0878	181.2197	223.1135
chr19	107250	BC115642	Kazald1	Mus musc	95.9986	246.4916	346.2975
chr10	212862	AK007964	Chpt1	Mus musc	2552.146	11083.39	6130.633
chr19	107765	BC037138	Ankrd1	Mus musc	117.3155	281.7928	433.4838
chr9	12773	BC119171	Ccr4	Mus musc	87.3095	295.3195	316.3591
chr11	14710	BC061005	Gngt2	Mus musc	162.7347	514.63	390.8395
chr2	22034	XM_00147	Traf6	PREDICT	62.0185	161.3095	148.8255
chr7	14366	BC015256	Fzd4	Mus musc	2553.686	8656.434	8052.034
chr2	64292	BC024960	Ptges	Mus musc	694.3555	1665.196	1889.726
chr6	12267	BC003728	C3ar1	Mus musc	517.0635	1293.596	1239.984
chr16	320712	AK086582	Abi3bp	Mus musc	1738.518	4169.172	4760.286
chr15	67434	AK156757	Ankrd33b	Mus musc	79.5555	190.6575	214.2555
chr17	107766	BC094021	Haa0	Mus musc	104.8755	277.5875	251.3335
chr19	18034	AK150012	Nfkb2	Mus musc	560.6074	1343.042	1601.326
chr2	70599	BC141883	Ssfa2	Mus musc	3844.594	9210.319	9489.215
chr7	14256	BC019801	Flt3l	Mus musc	224.4255	537.3594	601.2275
chr9	109332	BC085253	Cdcp1	Mus musc	1309.064	3133.558	3176.638
chr19	64380	BC027496	Ms4a4c	Mus musc	113.5135	327.3535	271.7015
chr17	225049	BC042512	Ttc7	Mus musc	973.3368	2329.396	2433.299
chr8	11733	NM_00111	Ank1	Mus musc	1608.23	3848.042	4652.859
chr19	12333	AF084459	Capn1	Mus musc	3204.834	7667.656	9676.68
chr14	16554	AK031370	Kif13b	Mus musc	42.7718	110.2537	102.2875
chr4	242702	NM_00108	Myom3	Mus musc	1455.098	5636.208	7076.514
chr11	11421	BC040404	Ace	Mus musc	786.1695	1879.336	2222.232
chr8	69543	XM_89440	Capns2	PREDICT	3066.747	7329.406	8108.204
chr1	12227	BC132259	Btg2	Mus musc	2626.53	7209.604	6276.524
chr2	16403	AK045391	Itga6	Mus musc	653.0611	1687.151	1560.422
chr11	84035	AK083565	Kremen1	Mus musc	92.6015	221.2535	264.4902
chr11	97775	AK086740	D930048N	Mus musc	294.842	704.2355	729.538
chr11	1E+08	XM_00147	LOC10004	PREDICT	741.3715	2399.684	1770.734
chr8	26457	AK137700	Slc27a1	Mus musc	508.5515	1557.348	1214.553
chr15	546643	XM_00147	I830127L0	PREDICT	60.4769	290.4516	144.428
chr2	258976	BC120560	Olfr1262	Mus musc	14.2773	47.7772	34.0955
chr10	17347	AK154235	Mknk2	Mus musc	3365.083	14354.65	8846.642
chr17	N/A	AK137492	N/A	Mus musc	81.5215	194.5942	230.852
chr1	20846	AK084855	Stat1	Mus musc	70.346	228.7801	167.9175
chr2	1E+08	XM_00147	Gm13546	PREDICT	11.7929	30.6039	28.1286
chr15	18810	AF188011	Plec1	Mus musc	2848.358	6793.695	8049.48
chr12	56784	AK083518	Ralgapa1	Mus musc	22.2969	53.1709	103.8456
chr13	N/A	AK132095	N/A	Mus musc	48.6032	115.9015	145.3615
chr3	1E+08	BC056231	Sprr2a3	Mus musc	1279.486	9634.066	8430.842
chr4	71886	BC115483	2310002L0	Mus musc	723.8281	1724.75	1951.536
chr4	57756	BC048473	Fhl5	Mus musc	75.3971	390.7175	649.6301
chr17	16988	BC086881	Lst1	Mus musc	236.3545	563.0642	648.9595

chr17	14999	BC003718	H2-DMb1	Mus musc	194.0286	542.7695	462.1484
chr13	14063	BC025432	F2r1	Mus musc	617.3975	1470.105	1817.086
chr2	71586	BC080200	Ifih1	Mus musc	274.2514	726.6275	652.9857
chr17	14961	BC008168	H2-Ab1	Mus musc	102.5415	244.0755	269.9775
chr14	11750	AK032013	Anxa7	Mus musc	280.9595	668.6592	765.8448
chr15	17988	BC015282	Ndr1	Mus musc	2663.006	6333.932	7427.073
chr2	84092	AK040791	Usp8	Mus musc	39.5248	93.9935	147.8375
chr19	69861	BC021951	2010003K	Mus musc	14.3291	34.0661	35.7998
chr9	665033	AM748258	Gm7455	Mus musc	72.9105	225.6195	543.227
chr18	12978	BC036343	Csf1r	Mus musc	2033.368	4832.416	5236.358
chr10	17761	AK008182	Mtap7	Mus musc	172.3015	409.4375	454.8995
chr7	66824	BC008252	Pycard	Mus musc	825.8275	1962.364	1971.82
chr11	209588	AK082020	Sectm1a	Mus musc	124.64	393.8635	296.1495
chr16	110948	AK164351	Hlcs	Mus musc	15.8835	43.555	37.7185
chr3	229445	BC098219	Ctso	Mus musc	637.7626	1743.578	1514.346
chr1	16331	AF125996	Inpp5d	Mus musc	1772.213	4208.026	4947.447
chr1	54354	AY261333	Rassf5	Mus musc	123.292	292.6595	296.2435
chr5	108086	AK089775	Rnf216	Mus musc	55.6687	132.1368	165.4835
chr19	67689	BC046597	Aldh3b1	Mus musc	185.5835	440.4395	449.8112
chr16	224273	BC043118	Crybg3	Mus musc	1134.652	2691.9	3361.294
chr6	13835	BC071215	Epha1	Mus musc	2545.424	6055.542	6195.2
chr8	213435	AK052858	Mylk3	Mus musc	248.446	589.1995	983.5175
chr19	619371	XM_00147	Stxbp3b	PREDICTI	808.8235	1918.114	1928.624
chr19	68852	BC107244	Lrrn4cl	Mus musc	547.7335	1824.028	1298.693
chr16	16155	BC145791	Il10rb	Mus musc	1793.357	4250.176	4674.002
chr6	16633	BC064711	Klra2	Mus musc	13.6064	85.5197	32.2314
chr2	228357	AK036406	Lrp4	Mus musc	230.5489	724.3255	546.1015
chr11	217198	BC024538	Plekhh3	Mus musc	1169.744	2770.533	3007.972
chr11	18292	AK139838	Sebox	Mus musc	115.4829	319.1335	273.5115
chr2	263803	AK142182	Pkn3	Mus musc	1263.954	2993.426	3415.178
chr13	13025	X15592	Ctla2b	Mouse cta	400.0175	1092.461	947.2475
chr19	381217	XM_35515	Fam189a2	PREDICTI	776.4915	1838.286	2241.272
chr6	68465	AK046591	Adipor2	Mus musc	356.4528	1510.796	843.8695
chr2	319548	AK052627	D030035A	Mus musc	50.0484	118.4575	159.6274
chr1	13136	BC011314	Cd55	Mus musc	50.8087	120.2473	210.4255
chr7	50794	AK002926	Klf13	Mus musc	33.8656	83.5775	80.1455
chr5	17355	AK082878	Aff1	Mus musc	22.7389	53.8017	82.5712
chr10	15353	AK153816	Hmg20b	Mus musc	641.5055	1601.259	1516.528
chr14	353187	BC096461	Nr1d2	Mus musc	607.3095	1435.521	1440.812
chr12	N/A	AK180878	N/A	Mus musc	998.5495	2400.947	2359.746
chr14	21834	S62756	Thrb	hormone r	309.4135	1096.298	731.1614
chr2	16176	AK157245	Il1b	Mus musc	7.2138	17.0454	19.5468
chr10	27375	BC012518	Tjp3	Mus musc	452.4155	1068.752	1098.864
chr7	29875	AK087141	Iqgap1	Mus musc	171.0262	403.8133	520.3295
chr15	331063	BC113155	Gsdmc2	Mus musc	84.8113	834.6495	857.2263
chr16	106347	BC057644	Illdr1	Mus musc	16.783	56.4799	39.6212
chr19	12333	AK171405	Capn1	Mus musc	3103.472	7326.218	8938.438
chr9	11768	BC003704	Ap1m2	Mus musc	1574.318	3715.477	3907.296
chr7	14256	AK020105	Flt3l	Mus musc	246.8036	612.3795	582.4675
chr2	74030	AK151332	Rin2	Mus musc	2436.902	5861.196	5750.421
chr11	68460	AK003267	Dhrs7c	Mus musc	172.7374	1373.033	1773.572
chr17	114654	BC131988	Ly6g6d	Mus musc	20.6855	67.1758	48.7721
chr18	13505	BC109161	Dsc1	Mus musc	4826.204	11581.18	12042.5



chrX	15203	AK032895	Heph	Mus musc	7.5141	17.7075	28.3365
chr1	53311	BC118050	Mybph	Mus musc	2333.369	5497.204	7440.156
chr9	234911	BC140432	Mmp27	Synthetic	41.3954	104.9735	97.5027
chr11	18806	BC047268	Pld2	Mus musc	63.4997	149.5335	152.0715
chr6	15465	AK032763	Hrh1	Mus musc	27.8662	65.6099	165.3715
chr1	227102	AK052927	Ormdl1	Mus musc	11.7814	27.7354	35.8061
chr15	252973	AK161180	Grhl2	Mus musc	954.3267	2557.066	2730.104
chr3	13636	BC002046	Efna1	Mus musc	706.9215	1911.353	1663.142
chr7	22695	BC021391	Zfp36	Mus musc	1495.822	3516.883	3626.79
chr4	54357	AK165783	Epb4.1l4b	Mus musc	1747.178	4511.47	5177.483
chr7	75547	AK162999	Akap13	Mus musc	65.2288	153.3358	203.4195
chr8	11733	BC079910	Ank1	Mus musc	3508.13	11137.33	13654.44
chr7	N/A	AK006397	N/A	Mus musc	83.702	196.7035	199.8741
chr18	N/A	AK089049	N/A	Mus musc	36.3364	116.2495	85.3713
chr11	53313	BC017639	Atp2a3	Mus musc	627.6135	2431.783	2273
chr15	213988	BC118054	Tnrc6b	Mus musc	57.4144	134.8275	156.0518
chr18	50771	AK166562	Atp9b	Mus musc	81.8115	192.1155	204.0328
chr12	77958	XM_00147	A930023M	PREDICTI	23.9528	71.4796	90.6355
chr7	18442	AK156185	P2ry2	Mus musc	236.5195	571.2535	555.3235
chr11	619441	BC096441	Tnfsf12-Tn	Mus musc	495.6496	1270.143	1163.676
chr9	67469	AK019488	Abhd5	Mus musc	1279.332	3620.608	3003.226
chr8	1E+08	XM_00147	Gm2745	PREDICTI	54.2878	364.1095	254.2075
chr17	20975	AK029755	Synj2	Mus musc	246.5963	578.6795	701.0115
chr1	67330	XM_00147	1700047M	PREDICTI	19.8582	129.5615	98.5482
chr1	16456	BC021876	F11r	Mus musc	2893.396	6980.484	6789.44
chr8	13859	BC015259	Eps15l1	Mus musc	826.0575	1938.126	2035.996
chr9	1E+08	XM_00147	LOC10003	PREDICTI	17.682	54.1493	41.4686
chr3	229474	AK173244	Fhdc1	Mus musc	1828.922	4288.402	4464.649
chr6	108960	AK033707	Irak2	Mus musc	86.7915	274.0455	203.4615
chr5	N/A	AK164362	N/A	Mus musc	10.2891	24.1176	37.4562
chr10	16414	BC145644	Itgb2	Mus musc	395.1415	1100.832	925.9526
chr2	14118	L29454	Fbn1	Mouse fibr	5792.657	14248.43	17915.49
chr2	64685	AK146577	Nmi	Mus musc	632.9795	1483.215	1549.576
chr2	17289	BC156360	Mertk	Synthetic	729.0105	1987.832	1925.48
chr5	19249	AK046854	Ptpn13	Mus musc	182.6946	469.9715	427.9875
chr14	16391	BC005435	Irf9	Mus musc	1303.978	3270.524	3054.748
chr6	232089	AK164974	Elmod3	Mus musc	68.7028	174.5295	170.8175
chr15	12124	BC003732	Bik	Mus musc	54.1354	126.7835	154.4439
chr18	17200	D85688	Mc2r	alt 'ACTH	26.5393	795.4344	372.9014
chr12	217830	BC066161	9030617O	Mus musc	369.1675	1447.256	864.3633
chr6	67855	BC156105	Asprv1	Synthetic	6754.85	30380.68	30781.76
chr6	67138	AK147960	Herc5	Mus musc	124.9713	292.4795	329.2615
chr14	83997	AK044358	Slmap	Mus musc	137.6095	330.2595	322.0235
chr17	69307	BC100437	Pxt1	Mus musc	6.1496	23.5591	16.7543
chr15	20356	AK054256	Sema5a	Mus musc	32.1868	75.3175	126.6204
chr19	N/A	AK079938	N/A	Mus musc	12.2039	28.5555	34.8277
chr7	51798	BC068112	Ech1	Mus musc	3064.646	15355.94	7170.178
chr3	229898	BC058555	Gbp5	Mus musc	109.4355	321.6195	255.9575
chr19	12821	BC125031	Col17a1	Mus musc	8006.784	18714.55	18946.66
chr17	83672	BC152315	Sytl3	Mus musc	23.5326	62.5504	78.8815
chr11	104709	AK169948	Pik3r6	Mus musc	36.552	85.4235	88.0375
chr19	83490	AK087295	Pik3ap1	Mus musc	9.6904	24.2252	22.6366
chr3	214048	BC025528	Larp2	Mus musc	792.8395	2685.457	2183.98

chr10	208677	BC010786	Creb3l3	Mus musc	68.4037	193.1955	264.1482
chr3	26377	AK169584	Dapp1	Mus musc	547.2996	1278.275	1797.946
chr11	103844	BC096427	Inca1	Mus musc	41.9654	297.2578	97.987
chr14	668253	AK143097	Dleu2	Mus musc	72.4876	169.2434	253.8695
chr19	17859	AK017637	Mxi1	Mus musc	110.8315	258.7415	284.9387
chr6	N/A	AK085609	N/A	Mus musc	27.1214	114.2607	63.3022
chr1	12487	BC064058	Cd28	Mus musc	71.3972	179.9335	181.3565
chr13	20499	AK052910	Slc12a7	Mus musc	52.1979	199.7155	121.8146
chr13	268706	AK037026	Slc38a9	Mus musc	21.506	50.186	64.4881
chr3	20755	BC010818	Sprr2a	Mus musc	942.7875	8526.307	7198.898
chr16	320712	AK043879	Abi3bp	Mus musc	1303.049	3040.38	3843.514
chr16	67102	AK005829	D16Ertd47	Mus musc	701.2855	1636.002	2359.066
chr16	207781	BC038064	C2cd2	Mus musc	1969.816	4905.566	4593.938
chr17	15040	BC099472	H2-T23	Mus musc	214.5758	554.5201	500.2709
chr7	73813	BC042793	Fam83e	Mus musc	29.7617	117.1496	100.2455
chr2	319876	AK083510	Cobll1	Mus musc	37.5059	133.2053	87.4115
chr10	1E+08	BC115499	Krtap10-4	Mus musc	137.0115	422.4174	319.0908
chr4	18027	AK050320	Nfia	Mus musc	86.5815	258.7775	365.9995
chr8	57429	BC012677	Sult5a1	Mus musc	756.8835	1928.584	1762.368
chr8	15368	BC010757	Hmox1	Mus musc	1886.206	4652.366	4391.548
chr4	78611	AK020599	9530048O	Mus musc	293.0135	682.1255	827.1707
chr7	68458	BC010832	Ppp1r14a	Mus musc	761.8095	2845.565	3356.796
chr11	20868	BC128363	Stk10	Mus musc	1849.794	4573.16	4305.899
chr13	407800	BC065151	Ecm2	Mus musc	364.9815	849.5395	1026.15
chr1	67330	AK019698	1700047M	Mus musc	33.7418	290.9595	145.6235
chr8	19332	BC089570	Rab20	Mus musc	87.7295	207.8565	204.1007
chr6	27418	AK171980	Mkln1	Mus musc	85.9315	199.8479	296.4675
chr7	65116	AK005453	Prrg2	Mus musc	367.9303	904.1875	855.5835
chr7	233571	BC027331	P2ry6	Mus musc	384.9955	894.8035	1033.273
chr17	13733	U66892	Emr1	alt 'DD7A5	1373.208	3192.126	3191.212
chr11	20973	BC004829	Syngn2	Mus musc	2481.724	5766.508	5962.098
chr2	12010	BC085164	B2m	Mus musc	7925.612	18412.27	19322.56
chr12	30955	AK137470	Pik3cg	Mus musc	312.9582	727.0222	893.0995
chr9	12700	AK170116	Cish	Mus musc	763.0835	3532.097	2502.372
chr6	12843	AK142111	Col1a2	Mus musc	232.9715	540.9355	748.1495
chr6	213522	BC026778	Plekhg6	Mus musc	532.3559	1967.374	1906.083
chr3	20342	BC024106	Selenbp2	Mus musc	1683.584	5746.856	3906.428
chr2	208618	AB125594	Etl4	Mus musc	258.7537	600.3527	791.4175
chr8	12725	AK150688	Clcn3	Mus musc	604.6315	1405.088	1402.334
chr17	N/A	AK040904	N/A	Mus musc	12.5001	28.9762	30.4344
chrX	18241	BC119384	Gpr143	Mus musc	37.981	118.2155	152.6615
chr10	83554	BC061052	Fstl3	Mus musc	167.9065	601.9346	1124.002
chr17	320908	AK088368	E430014B	Mus musc	23.1115	75.3809	73.2115
chr10	N/A	AK158810	N/A	Mus musc	20.9801	48.6126	91.8515
chr17	64074	AK006809	Smoc2	Mus musc	111.6555	314.9126	258.7104
chr4	17843	BC012227	Mup4	Mus musc	12.8146	42.2765	29.6849
chr19	619371	NM_00103	Stxbp3b	Mus musc	826.8155	2035.319	1915.284
chr7	67441	BC049278	Isoc2b	Mus musc	314.1263	934.8269	727.1575
chr17	72238	AK033710	Tbc1d5	Mus musc	18.0291	41.7099	68.0815
chr1	214854	BC056622	Neur13	Mus musc	178.2426	421.0641	412.2335
chr3	56758	XM_00147	Mbnl1	PREDICT	94.0341	218.7155	217.477
chr15	105855	AK019793	Nckap1l	Mus musc	717.5415	1659.136	1889.181
chr11	217166	BC008989	Nr1d1	Mus musc	869.0277	3043.712	2009.048



chr10	67341	XM_98678	Ascl4	PREDICT	16.2426	38.2501	77.1096
chrX	16784	AK051989	Lamp2	Mus musc	56.6999	131.0375	174.2035
chr14	56419	AK006102	Diap3	Mus musc	13.1831	38.7887	57.8682
chr7	12606	BC028890	Cebpa	Mus musc	6732.218	21858.13	15555.82
chr14	16391	U51992	Irf9	Mus musc	1303.374	3260.267	3011.186
chr6	232408	BC127141	Klr1f	Mus musc	23.996	55.4379	66.76
chr3	319192	BC089519	Hist2h2aa2	Mus musc	838.0095	3022.57	1935.716
chr4	100340	BC009087	Smpd13b	Mus musc	454.7385	1050.359	1323.576
chr16	68159	BC023414	Stx19	Mus musc	147.6874	555.0242	506.7475
chr3	N/A	AK041310	N/A	Mus musc	49.1727	218.0055	113.5472
chr17	106766	BC026642	Stap2	Mus musc	887.7295	2560.782	2049.45
chr5	21814	AK166082	Tgfbr3	Mus musc	1299.694	3293.273	3442.828
chr10	70874	AK014882	492151310	Mus musc	18.1341	41.8585	49.1408
chr4	69073	AK158383	1810019J1	Mus musc	167.36	386.2655	468.3955
chr14	13587	BC065391	Ear2	Mus musc	13.723	64.5491	31.6661
chr5	212285	AK037027	Arap2	Mus musc	1117.694	2802.773	2807.506
chr17	N/A	XM_00147	N/A	PREDICT	80.9275	228.4975	186.6915
chr19	226250	AK087809	Afap1l2	Mus musc	86.3995	199.2655	221.0835
chr7	19024	BC100346	Ppfbp2	Mus musc	95.3565	252.7755	351.6695
chr4	18201	AK164305	Nsmaf	Mus musc	25.4398	70.9776	58.6577
chr1	1E+08	XM_00147	Gm4208	PREDICT	35.7413	147.7855	151.3235
chr14	1E+08	XM_00147	Gm4015	PREDICT	760.3055	3137.587	4427.302
chr11	16562	BC016221	Kif1c	Mus musc	1783.365	4368.532	4110.284
chr4	1E+08	XM_00147	Gm2164	PREDICT	197.6375	455.4975	522.4855
chr1	20846	AK157263	Stat1	Mus musc	2045.918	7525.792	4714.079
chr4	100198	AK159373	H6pd	Mus musc	1609.144	3808.91	4283.35
chr2	98878	BC007480	Ehd4	Mus musc	1995.37	4596.202	5054.02
chr4	11610	BC057196	Agtrap	Mus musc	606.3795	1443.857	1396.228
chr6	N/A	AB061769	N/A	Mus musc	151.7555	439.6635	349.4235
chr9	69035	AK169197	Zdhc3	Mus musc	554.6943	1314.316	1277.136
chr7	11674	BC066218	Aldoa	Mus musc	13662.59	33051.64	31435.92
chr17	78308	BC016104	Gpr108	Mus musc	1090.284	2852.796	2508.202
chr3	319154	BC156965	Hist2h3b	Synthetic	157.4455	362.0923	449.2315
chr4	330010	AM690754	Till10	Mus musc	91.7795	256.6936	211.0483
chr4	433766	AK052911	Trim63	Mus musc	76.2255	175.2675	184.8435
chr10	18029	Y07693	Nfic	M.musculu	2517.118	5787.585	6364.349
chr4	71801	BC039276	Plekhf2	Mus musc	723.5295	1736.684	1663.336
chr4	242627	EU099301	Skint5	alt 'OTTM	56.0723	128.8776	168.3095
chr19	N/A	AK133024	N/A	Mus musc	27.4519	69.4737	63.0858
chr12	12925	BC031922	Crip1	Mus musc	682.0649	1567.21	2304.913
chr7	56460	AK154376	Pkp3	Mus musc	1420.45	3263.66	3498.671
chr4	18600	AK168685	Padi2	Mus musc	122.3995	281.1395	321.9595
chr1	64095	AK170995	Gpr35	Mus musc	107.3355	298.6715	333.6015
chr17	12268	BC018277	C4b	Mus musc	32.9759	80.7856	75.7315
chr4	18406	BC057985	Orm2	Mus musc	64.1761	227.3355	235.6435
chr1	226652	AK147757	Arhgap30	Mus musc	822.4652	1888.386	2074.576
chr4	66938	BC019568	1700029G	Mus musc	916.7526	2104.666	2115.276
chr4	22004	BC014809	Tpm2	Mus musc	391.6655	899.0195	1032.214
chr2	227620	BC130030	Uap111	Mus musc	373.3215	856.8155	1073.04
chr19	18563	AK172320	Pcx	Mus musc	3482.816	21017.22	11529.43
chr4	72157	BC008527	Pgm2	Mus musc	3667.776	10190.14	8417.24
chr8	78688	BC027290	Nol3	Mus musc	96.1815	220.6855	348.4855
chr5	69815	BC027812	Krtcap3	Mus musc	748.2213	1716.641	1942.531

chr17	224833	BC006605	Al661453	Mus musc	1019.575	2783.812	2338.059
chr17	14289	BC117066	Fpr2	Mus musc	32.6992	141.5057	74.9775
chr19	16998	AK080869	Ltp3	Mus musc	270.4915	932.6951	620.1055
chr1	214854	AK040949	Neur13	Mus musc	80.2435	281.9915	183.9534
chr8	16363	BC006577	Irf2	Mus musc	1795.175	4114.72	4128.878
chr7	20190	AK143310	Ryr1	Mus musc	64.1205	146.9695	180.6355
chr17	13733	AK155862	Emr1	Mus musc	2394.596	5726.642	5488.563
chr15	N/A	AK179277	N/A	Mus musc	1425.884	6050.796	3564.842
chr11	12702	BC052031	Socs3	Mus musc	680.3775	1558.524	1877.732
chr12	77974	BC016204	Rdh12	Mus musc	1796.65	4475.41	4115.334
chr1	320829	AK043693	C430014B	Mus musc	37.6888	113.9255	115.0515
chr5	76074	BC080665	5830443L2	Mus musc	149.8112	471.3768	343.103
chr2	228357	AK032360	Lrp4	Mus musc	90.3835	237.8675	206.9939
chr2	228607	AK153748	Mavs	Mus musc	1544.721	4874.553	4009.84
chr15	210463	BC026439	BC026439	Mus musc	13.7769	32.582	31.5323
chr16	15163	BC007469	Hcls1	Mus musc	1455.76	3475.712	3331.102
chr2	N/A	AK132189	N/A	Mus musc	28.8823	66.0837	102.0735
chr4	230073	AK078287	Ddx58	Mus musc	1366.888	3137.818	3127.43
chr12	217692	AK051853	Sipa111	Mus musc	162.2575	515.6855	433.3135
chr19	18572	BC051231	Pdcd11	Mus musc	174.3027	402.7906	398.5475
chr11	19696	BC139770	Rel	Mus musc	450.7015	1030.524	1106.486
chr16	320712	AK051214	Abi3bp	Mus musc	49.6009	113.3775	128.1154
chr6	N/A	AF041937	N/A	Mus musc	23.1392	56.3271	52.8888
chr17	246707	AK170081	Emilin2	Mus musc	2210.182	5050.838	5361.416
chr14	12224	BC012958	Klf5	Mus musc	1913.189	4371.328	5077.952
chr2	68925	AK042776	Rpap1	Mus musc	134.7775	307.9355	314.9455
chr7	13032	BC067063	Ctsc	Mus musc	2941.36	7200.864	6718.076
chr9	212531	BC038473	Sh3bgrl2	Mus musc	687.9515	1605.842	1571.101
chr10	213783	AK045140	Plekhhg1	Mus musc	100.6555	229.8321	250.9275
chr11	29856	AK009426	Smtn	Mus musc	552.4748	1718.852	2754.612
chr3	56758	AF231110	Mbnl1	Mus musc	3340.29	7626.232	8064.876
chr7	77938	AK156629	Fam53b	Mus musc	1036.142	3971.864	2365.428
chr6	17342	AK052895	Mitf	Mus musc	47.9821	129.1095	109.5386
chr13	14938	BC061146	Gzma	Mus musc	7.1329	34.4687	16.2835
chr8	244425	AK043205	A730069N	Mus musc	24.0394	70.1656	102.9075
chr10	237611	BC067208	Stac3	Mus musc	1365.637	3116.602	4097.373
chr1	626058	AK154515	Gm6648	Mus musc	22.5166	60.7699	51.3715
chr12	71375	AK208910	Foxn3	Mus musc	1715.579	3959.396	3913.834
chr7	13094	BC120525	Cyp2b9	Mus musc	15.5467	39.1726	35.4654
chr4	56219	AK164184	Extl1	Mus musc	408.4375	955.699	931.5695
chr4	12795	BC063051	Plk3	Mus musc	1129.648	2575.698	2719.558
chr5	74198	AK012137	Dtx2	Mus musc	801.8828	2302.154	1828.33
chr7	75547	AK037815	Akap13	Mus musc	263.0099	607.6095	599.6385
chr5	107976	AK020047	Bre	Mus musc	24.5912	56.0576	67.3811
chr13	632832	XM_90708	Gm7095	PREDICT	467.3895	1078.952	1064.264
chr6	56615	BC009155	Mgst1	Mus musc	4185.565	18050.89	9993.102
chr7	67441	BC046756	Isoc2b	Mus musc	344.9155	1106.368	785.2415
chr15	18591	BC053430	Pdgfb	Mus musc	1848.576	5190.114	5496.724
chr1	320761	AK085305	D630008O	Mus musc	29.6736	87.3758	128.9336
chr15	29857	AK178955	Mapk12	Mus musc	193.6935	478.8215	440.7294
chr3	77559	BC044780	Agl	Mus musc	56.2352	135.5535	133.1315
chr1	53311	BC116684	Mybph	Mus musc	2377.208	5404.964	7374.272
chr10	72472	BC052877	Slc16a10	Mus musc	776.4055	2837.668	3083.59



chr6	16970	AK153823	Lrmp	Mus musc	43.0723	97.9035	160.9303
chr12	70435	BC099931	2610204M	Mus musc	2146.882	4877.772	6157.239
chr9	94226	BC012232	S1pr5	Mus musc	650.3795	1509.808	1477.522
chr17	13733	BC075688	Emr1	Mus musc	2632.8	5980.766	6755.289
chr10	14598	AK079235	Ggt1	Mus musc	174.2115	411.5155	395.7175
chr10	212862	BC031435	Chpt1	Mus musc	2406.358	12728.86	5464.739
chr3	18441	EF584663	P2ry1	alt 'P2Y1'	1025.044	2509.974	2327.35
chr3	12977	BC025593	Csf1	Mus musc	1000.402	2270.84	2993.606
chr1	N/A	BC039791	N/A	Mus musc	126.2297	286.4955	325.2212
chr7	109042	BC009660	Prkcdpb	Mus musc	1318.518	2992.54	3758.432
chr1	12633	AK152515	Cflar	Mus musc	2061.424	5663.35	5985.452
chr9	320051	BC120905	Exph5	Mus musc	182.9657	415.1075	475.4855
chr10	27375	AK167587	Tjp3	Mus musc	239.7255	543.8275	590.6755
chr7	233806	BC006689	Tmem159	Mus musc	1054.65	2391.564	2769.284
chr9	76459	BC031385	Car12	Mus musc	782.3593	2693.218	2615.257
chr7	53896	BC027516	Slc7a10	Mus musc	112.8435	403.5995	303.2415
chr7	12493	BC019402	Cd37	Mus musc	441.1072	1000.111	1275.566
chr9	18854	AK137538	Pml	Mus musc	684.8346	1590.522	1639.36
chr18	328968	AK087736	E330013P	Mus musc	119.4915	354.5697	508.9873
chr13	319269	NR_00286	A130040M	Mus musc	4754.902	12937.69	10775.31
chr9	330951	AK054504	E330033L	Mus musc	19.3184	50.983	74.9615
chr19	271564	AK165475	Vps13a	Mus musc	101.741	230.4355	295.051
chr16	54613	AK162619	St3gal6	Mus musc	889.6855	3094.228	2013.959
chr8	13423	AK018651	Dnase2a	Mus musc	248.5147	601.6515	571.4835
chr1	20215	AK044214	Sag	Mus musc	36.3269	100.9615	82.2195
chr1	17974	AK014772	Nck2	Mus musc	68.8472	199.3295	155.7955
chr15	12983	BC113202	Csf2rb	Mus musc	915.6895	3051.056	3133.558
chr4	108809	AK160260	4933407E2	Mus musc	13.2709	30.0151	31.9357
chr1	11910	BC064799	Atf3	Mus musc	237.9815	538.0899	701.7355
chr10	N/A	AF103797	N/A	Mus musc	17.3816	39.3004	41.1578
chr3	26377	BC014759	Dapp1	Mus musc	347.1895	785.0002	987.2915
chr6	22793	AK035743	Zyx	Mus musc	274.0735	619.6381	667.5915
chr10	56535	AK083778	Pex3	Mus musc	24.6655	55.7616	63.2263
chr11	1E+08	AK079763	A430060F	Mus musc	22.4185	50.6789	52.4409
chr12	22095	BC086691	Tshr	Mus musc	48.1741	246.7975	164.0935
chr7	53415	AK015389	Htatip2	Mus musc	47.9868	147.6695	108.4657
chrX	26549	BC030035	Itgb1bp2	Mus musc	1710.668	8967.612	12513.77
chr2	12908	AK028666	Crat	Mus musc	244.2595	1120.446	630.5975
chr16	1E+08	XM_00147	Gm4174	PREDICT	11.9531	30.6531	42.0584
chr9	26944	BC010745	Tinag	Mus musc	47.1281	106.4597	145.8275
chr2	241639	AK145282	Fermt1	Mus musc	184.5955	416.8885	425.8235
chr10	17761	AK008018	Mtap7	Mus musc	104.2155	235.3215	253.1375
chr10	13139	BC006713	Dgka	Mus musc	2121.273	4788.666	5828.445
chr9	74080	AK041526	Nmnat3	Mus musc	53.9972	144.4655	121.8855
chr6	101401	AK173146	Adamts9	Mus musc	80.0155	347.7415	408.1615
chr2	192212	BC039212	Prom2	Mus musc	3692.51	8698.452	8324.496
chr13	21418	AK145772	Tcfap2a	Mus musc	850.6935	2126.464	2132.976
chr17	67522	AK018977	1700097N	Mus musc	57.2565	163.9532	129.0695
chr7	12971	BC045159	Crym	Mus musc	636.4695	1434.605	1736.326
chr2	18779	AK011427	Pla2r1	Mus musc	69.7555	157.2235	214.3056
chr19	83490	AK170925	Pik3ap1	Mus musc	29.3332	98.7655	66.1136
chr4	55948	BC148645	Sfn	Synthetic	5062.33	11409.25	12691.53
chr10	67282	AK017732	Ccdc53	Mus musc	13.1732	29.6886	42.6686

chr8	234779	BC023877	Plcg2	Mus musc	253.1614	570.3571	622.3455
chr5	76074	BC031475	5830443L2	Mus musc	123.6549	348.6515	278.5575
chr12	14874	AB041613	Gstz1	Mus musc	1738.07	6321.474	3915.254
chr2	229003	AK172227	BC006779	Mus musc	76.1223	375.5435	317.8203
chr14	353187	AK054522	Nr1d2	Mus musc	448.0975	1053.661	1008.686
chr13	N/A	M54990	N/A	Mus musc	19.3849	78.2035	43.6309
chrX	77622	AK080916	Apex2	Mus musc	13.6175	30.643	38.9284
chr3	20200	BC003832	S100a6	Mus musc	3227.534	7259.678	9376.384
chr8	434341	AK220210	Nlrc5	Mus musc	67.9617	161.9015	152.7315
chr2	208618	BC055803	Etl4	Mus musc	235.2315	528.6166	718.6473
chr2	58207	AK086962	Slc43a3	Mus musc	85.2735	251.1715	191.5675
chr6	67861	AK019906	Akr1b10	Mus musc	398.1775	1951.1	894.3955
chr13	109620	XM_62131	Dsp	PREDICT	7223.864	16225.31	20864.32
chr10	15353	BC071217	Hmg20b	Mus musc	1075.612	2415.054	2416.416
chr6	171095	BC004759	Il17rc	Mus musc	1723.693	3922.826	3869.33
chr1	21961	AK004758	Tns1	Mus musc	3355.798	9614.754	7532.326
chr17	17075	BC005618	Epcam	Mus musc	2556.38	5735.58	6678.232
chr9	11433	NM_00110	Acp5	Mus musc	1576.178	7455.697	3535.412
chr4	71148	AK168693	Mier1	Mus musc	45.4873	102.0195	111.8775
chr14	69634	BC023398	Clybl	Mus musc	1003.4	6317.364	2250.244
chr17	64074	AK172312	Smoc2	Mus musc	124.7935	328.5686	279.8005
chr16	239932	XM_97728	Krtap24-1	PREDICT	10.423	23.3692	24.3513
chr3	N/A	NM_01946	N/A	Mus musc	177.0935	397.0375	418.7475
chr10	20393	BC070401	Sgk1	Mus musc	1532.5	3433.41	3477.878
chr7	18726	BC128500	Pira3	Mus musc	63.402	189.3133	142.0415
chr4	N/A	AK155592	N/A	Mus musc	111.2735	276.0776	249.2378
chr6	21937	BC004599	Tnfrsf1a	Mus musc	4416.932	9886.708	10070.4
chr2	N/A	AK133652	N/A	Mus musc	39.771	89.0095	102.1175
chr9	12700	BC003783	Cish	Mus musc	728.8627	3575.216	2238.673
chr5	13112	BC010528	Cyp3a11	Mus musc	11.8418	65.094	26.5006
chr9	67469	AK008046	Abhd5	Mus musc	442.4575	1265.75	990.0995
chr7	11674	EF662059	Aldoa	alt 'Aldo-1	206.016	970.1455	538.5415
chr1	626058	XM_89061	Gm6648	PREDICT	24.2944	54.347	55.6797
chr15	29857	AK011286	Mapk12	Mus musc	597.2241	1335.72	1557.35
chr3	12508	BC021310	Cd53	Mus musc	522.383	1168.266	1561.459
chr15	266632	AK020397	Irak4	Mus musc	58.7635	138.9255	131.4158
chr8	18021	BC021835	Nfatc3	Mus musc	853.4835	1907.774	1918.722
chr19	626549	XM_89114	Gm6684	PREDICT	31.0055	70.5156	69.291
chr3	66230	BC028530	Mrps28	Mus musc	335.2493	973.0395	748.9615
chr12	195733	BC013080	Grhl1	Mus musc	4261.076	9519.076	10068.08
chr3	11863	AK141362	Arnt	Mus musc	161.9835	361.7775	381.7761
chr1	98193	AK167059	Dcaf8	Mus musc	296.4355	739.8995	662.0015
chr1	214855	AK150170	Arid5a	Mus musc	440.8135	1107.942	1388.737
chr14	50934	BC059004	Slc7a8	Mus musc	968.5755	2161.843	2418.3
chr2	N/A	XM_00147	N/A	PREDICT	26.0101	58.0421	61.0888
chr18	75739	AK050710	Mpp7	Mus musc	63.9621	171.6795	169.4195
chr8	74032	BC038819	Sdr42e1	Mus musc	1966.334	9783.066	9881.208
chr11	56193	AK038804	Plek	Mus musc	1070.233	2386.213	3006.372
chr7	14936	BC019389	Gys1	Mus musc	1787.762	5042.97	3986.025
chr14	21933	AK145730	Tnfrsf10b	Mus musc	20.3921	47.4061	45.4395
chr18	64291	BC015075	Osbp1a	Mus musc	1202.616	3262.923	2678.778
chr19	74580	AK014668	Pyroxd2	Mus musc	42.063	93.6714	98.0596
chr16	54420	BC003868	Cldn8	Mus musc	193.8915	431.7451	506.7475

chr17	14964	AK170678	H2-D1	Mus musc	7530.534	16768.12	17000.17
chr14	75698	AK162134	Fam35a	Mus musc	56.0314	124.7255	151.4837
chr14	69008	AK035294	Cab39l	Mus musc	45.9108	102.1675	134.0255
chr5	403178	BC039627	Plcxd1	Mus musc	88.5369	312.7916	352.0835
chr19	12495	AK029512	Entpd1	Mus musc	1733.452	3856.397	5040.448
chr9	19143	BC005496	St14	Mus musc	3982.42	9888.352	10826.95
chr17	63959	AK004756	Slc29a1	Mus musc	1687.014	3751.992	4426.699
chr11	74617	BC004847	Scpep1	Mus musc	4062.532	9535.1	9033.594
chr6	N/A	M16681	N/A	Mouse MH	16.377	38.0883	36.4072
chr7	78286	AK129480	Nav2	Mus musc	52.5613	116.8075	195.3445
chr11	450219	BC148481	Gsdma3	Synthetic	7.1818	15.9597	27.337
chr17	63959	BC004828	Slc29a1	Mus musc	2244.31	4986.408	5439.276
chr7	75547	AK172125	Akap13	Mus musc	287.687	638.9255	711.3289
chr15	223646	BC058800	Naprt1	Mus musc	259.1555	1234.982	575.4535
chr4	100155	AK135748	Al481877	Mus musc	9.2077	20.4442	43.6318
chr10	70719	AK151423	Hmha1	Mus musc	757.5475	1681.734	1777.068
chr3	20912	AK050247	Stxbp3a	Mus musc	70.6217	156.7515	216.4555
chr17	1E+08	XM_00147	Gm2833	PREDICT	24.8391	55.1262	65.344
chr7	53415	AK144837	Htatip2	Mus musc	917.7295	2507.566	2036.628
chr19	69745	BC028520	Pold4	Mus musc	544.6715	1208.466	1255.5
chr3	13040	AK150274	Ctss	Mus musc	945.4695	2178.237	2097.648
chr16	70511	AK017533	Fam86	Mus musc	476.2875	1431.907	1061.324
chr3	229228	BC146000	Nudt6	Mus musc	453.1675	1363.69	1078.596
chr14	545030	AK155186	Wdfy4	Mus musc	175.2971	388.5715	501.1548
chr19	18797	BC035928	Plcb3	Mus musc	3668.632	8624.268	8423.248
chr5	231832	BC026659	Tmem184a	Mus musc	349.6235	774.8555	831.9835
chr1	64435	BC110550	Fcamr	Mus musc	123.5255	312.4755	273.679
chr1	73980	AK015376	LOC73980	Mus musc	10.6654	23.626	35.3665
chr3	14863	BC037068	Gstm2	Mus musc	492.5255	1125.739	1199.992
chr9	N/A	AK030091	N/A	Mus musc	69.3257	153.5195	197.8775
chrX	20229	BC108334	Sat1	Mus musc	82.7535	183.2091	252.4005
chr7	57278	AK040564	Bcam	Mus musc	63.058	139.5779	150.5018
chr13	56349	BC004699	Net1	Mus musc	2989.288	6614.4	6982.668
chr2	21824	BC019154	Thbd	Mus musc	1596.272	3531.875	4206.554
chr3	23831	AK009805	Car14	Mus musc	98.4735	473.9354	300.1436
chr6	72131	AK008560	2010310C	Mus musc	29.0862	64.3401	93.4515
chr7	57444	BC022751	Isg20	Mus musc	272.2935	883.6215	602.2808
chr19	21888	AK017548	Tie4	Mus musc	40.2601	89.021	119.6373
chr1	226849	BC059026	Ppp2r5a	Mus musc	3865.72	16834.06	9519.076
chr6	77558	AK020388	9330179D	Mus musc	18.5694	51.4279	43.8332
chr14	16427	BC016500	Itih4	Mus musc	16.1952	568.7847	290.0489
chr17	624681	NM_03074	Btnl6	Mus musc	10.5186	42.9979	23.2472
chr4	56219	BC120890	Extl1	Mus musc	294.7655	682.7515	651.4075
chr15	75259	AK005793	4930556M	Mus musc	85.6974	213.4435	189.3802
chr1	22409	BC014737	Wnt10a	Mus musc	130.334	287.9695	340.8595
chr4	230806	AK145690	Aim1l	Mus musc	904.9875	1999.342	2118.262
chr9	12045	BC116241	Bcl2a1b	Mus musc	42.4461	93.7608	95.859
chr14	67725	AK014204	Nudt13	Mus musc	365.2935	1205.401	806.8535
chr5	20345	AK089214	Selplg	Mus musc	410.5757	950.1855	906.4133
chr16	207781	AK017896	C2cd2	Mus musc	55.9249	123.4095	142.3575
chr7	11813	BC024697	Apoc2	Mus musc	31.1442	89.7136	103.4275
chr4	213649	BC060376	Arhgef19	Mus musc	860.3773	2288.555	2641.982
chr14	21834	BC119552	Thrb	Mus musc	271.6375	1154.706	599.1515

chr7	16409	AK089521	Irgam	Mus musc	332.8251	772.3075	733.9891
chr14	105559	AK167479	Mbnl2	Mus musc	2321.476	5118.044	5777.32
chr15	69146	BC029813	Gsdmd	Mus musc	498.2595	1098.398	1418.978
chr16	68146	AK051159	Arl13b	Mus musc	35.5655	78.392	121.8353
chr6	80782	BC132126	Klr1b	Mus musc	25.1077	55.33	57.8682
chr7	68713	BC027285	Ifitm1	Mus musc	37.6279	82.9176	108.5808
chr4	74735	AK017887	Trim14	Mus musc	17.6609	69.2601	38.911
chr1	12835	AK076391	Col6a3	Mus musc	71.8839	158.3615	213.5799
chrX	54634	BC099459	Magix	Mus musc	66.9779	339.7215	147.5495
chrX	17772	BC051022	Mtm1	Mus musc	307.7655	1126.122	677.9295
chr17	66968	BC024138	Plin5	Mus musc	161.4655	6159.338	355.6595
chr10	22288	AK087303	Utrn	Mus musc	1700.796	3976.376	4354.87
chr7	320639	AK162351	A430081F	Mus musc	207.296	456.4735	475.0167
chr16	19128	BC128316	Pros1	Mus musc	2015.674	4436.218	5853.238
chr8	15900	BC005450	Irf8	Mus musc	418.1849	1015.376	920.1195
chr12	217430	BC025220	Pqlc3	Mus musc	263.5772	579.6795	787.2135
chr11	94176	AK037611	Dock2	Mus musc	943.8853	2075.477	2670.034
chr14	105559	BC079898	Mbnl2	Mus musc	2148.835	4724.572	5640.554
chr19	11475	AK080187	Acta2	Mus musc	69.9549	153.7855	204.4895
chr16	109857	BC028763	Cbr3	Mus musc	939.7035	2116.429	2678.379
chrX	110094	AK045618	Phka2	Mus musc	63.7722	177.3349	140.1554
chr15	80287	AK167986	Apobec3	Mus musc	683.4375	1501.888	1747.884
chrX	71398	BC115576	5430427O	Mus musc	55.5378	151.2619	122.0235
chr1	66112	AK004989	Mosc1	Mus musc	47.4428	158.7615	104.2335
chr18	78695	AK046742	C030005K	Mus musc	158.308	357.5635	347.7655
chr17	625018	BC156486	C4a	Synthetic	133.4758	313.1655	293.2035
chr5	433865	XM_48558	Gm5552	PREDICT	1275.958	2938.779	2802.678
chr4	11610	BC046820	Agtrap	Mus musc	2118.028	4811.048	4650.552
chr14	74480	BC049740	Samd4	Mus musc	40.7978	89.5755	210.8255
chr18	1E+08	XM_00147	Gm2627	PREDICT	6437.155	15849.23	14128.69
chr17	15000	U35337	H2-DMb2	Mus musc	149.2505	367.1535	327.5655
chr1	240916	BC064106	Vsig8	Mus musc	69.8096	206.7595	153.2135
chr10	14632	BC131650	Gli1	Mus musc	1853.979	5416.942	8146.125
chr2	258245	BC145856	Olfr1036	Mus musc	14.2027	52.0981	61.121
chr1	14268	BC099373	Fn1	Mus musc	3115.15	6834.005	7515.788
chr16	11625	BC019822	Ahsg	Mus musc	13.4205	29.4411	171.1255
chr3	71913	BC003309	Tmem79	Mus musc	421.5375	945.9875	924.6522
chr3	11364	BC013498	Acadm	Mus musc	2944.59	16605.3	6458.281
chr11	N/A	AK079017	N/A	Mus musc	49.6136	117.5571	108.7935
chr10	22288	AK134010	Utrn	Mus musc	2188.62	4798.747	4954.091
chr10	215751	AK144481	BC013529	Mus musc	1442.612	4287.152	3162.688
chr17	22670	AK171019	Trim26	Mus musc	69.2155	154.1995	151.7275
chrX	22441	X07967	Xlr	Mouse mF	62.9543	145.1015	138.0015
chr10	75886	BC052144	Gstt4	Mus musc	27.2282	123.7015	59.6612
chr17	319720	AK038843	9630028I0	Mus musc	19.5699	42.8663	108.9595
chr9	N/A	AK160323	N/A	Mus musc	487.547	1149	1067.828
chr10	23887	BC113775	Ggt5	Mus musc	86.6759	189.8155	266.9795
chr15	67731	BC027211	Fbxo32	Mus musc	838.6753	1897.332	1836.364
chr9	244672	AK014327	Cwf19I2	Mus musc	175.2255	398.3134	383.6315
chr9	212943	XM_13502	Fam46a	PREDICT	1215.578	2660.354	3237.808
chr2	N/A	AK136473	N/A	Mus musc	51.8825	124.6015	162.3577
chr17	104103	NR_00285	Airn	Mus musc	386.5075	845.5255	1059.438
chr2	227753	AK168707	Gsn	Mus musc	12229	26745.39	27688.08

chr16	19876	AK032752	Robo1	Mus musc	609.6312	1333.236	1509.344
chr2	71586	AK168646	Ifih1	Mus musc	27.7387	79.7312	60.6609
chr6	67442	BC117751	Retsat	Mus musc	1639.778	8903.844	3676.412
chr7	53415	BC017372	Htatip2	Mus musc	980.8479	2287.5	2143.362
chr11	1E+08	XM_00147	Gm12568	PREDICT	66.0246	199.9035	144.2555
chr14	219150	AK161592	Hmbox1	Mus musc	56.2352	122.8171	144.3295
chr4	1E+08	XM_00147	Mup16	PREDICT	162.9255	1057.896	355.6895
chr6	27418	AK037967	Mkln1	Mus musc	141.3555	308.5455	354.3135
chr7	233315	AK088715	Mtmr10	Mus musc	110.5795	241.3046	295.0835
chr9	235527	AK035878	Plscr4	Mus musc	85.5094	186.5791	256.5295
chr11	20558	BC044865	Sifn4	Mus musc	95.4575	212.1415	208.2398
chr9	18988	BC148604	Pou2f3	Synthetic	2331.982	5086.513	5203.686
chr17	170716	BC003954	Cyp4f13	Mus musc	853.3885	3183.654	1861.118
chr7	54135	BC004672	Lsr	Mus musc	400.8375	874.1135	875.1375
chr7	23966	AK053790	Odz4	Mus musc	99.3183	221.9795	216.5695
chr8	234356	BC089162	Csgalnact1	Mus musc	364.0713	793.6618	869.8155
chrX	245575	XM_14210	Gm4992	PREDICT	272.4961	593.9935	600.8125
chr10	12905	AK144648	Cradd	Mus musc	39.6115	101.9739	86.344
chr17	N/A	AK165120	N/A	Mus musc	37.1941	81.0575	128.9905
chr1	12835	XM_89703	Col6a3	PREDICT	4824.97	11891.81	16475.22
chr3	20753	BC027534	Sprr1a	Mus musc	405.7084	946.8055	883.9955
chr11	16362	AK153514	Irf1	Mus musc	19.6279	42.7202	43.502
chr4	666168	NM_20164	Cyp4a31	Mus musc	7.054	16.6753	15.3516
chr15	223672	BC020489	Apol9a	Mus musc	30.1102	94.5655	65.5179
chr18	64291	AK090069	Osbp1a	Mus musc	60.223	186.8673	136.7495
chr17	436493	BC010602	H2-gs10	Mus musc	1416.14	3079.984	3681.012
chr7	16190	M27960	Il4ra	Mouse inte	471.1819	1024.53	1521.116
chr7	27973	BC031732	Vkorc1	Mus musc	1812.338	3939.764	4362.499
chr5	13874	BC027838	Ereg	Mus musc	128.5831	279.5055	302.2815
chr10	237250	XM_13691	Gm221	PREDICT	40.5309	96.4517	88.0821
chr15	23880	AK137907	Fyb	Mus musc	1500.755	3261.096	3713.472
chr7	14936	BC131687	Gys1	Mus musc	2861.216	8873.056	6216.076
chr11	622459	AK138811	RP23-303F	Mus musc	13.5176	44.7317	29.3647
chrX	665203	NM_00110	EG665203	Mus musc	34.4145	147.7655	89.2295
chrX	237073	AK077972	Rbm41	Mus musc	14.7793	39.4405	35.671
chr11	216984	BC017548	Evi2b	Mus musc	279.9835	607.6515	672.6275
chr11	237887	AK220241	Sifn10	Mus musc	311.188	675.3577	681.7995
chr5	414108	AK079034	9230114K	Mus musc	14.5659	34.9988	52.4638
chr17	1E+08	XM_00148	Gm4356	PREDICT	227.5198	520.7555	493.7149
chr13	N/A	X03802	N/A	M.musculu	43.4226	96.0435	94.2195
chr12	68520	BC019521	Zfyve21	Mus musc	1010.86	2988.016	2193.162
chr11	74136	AK047396	Sec14l1	Mus musc	118.6849	267.5855	257.4707
chr8	434325	BC033932	Tmem221	Mus musc	45.6305	98.9885	120.9321
chr10	16404	L16544	Itga7	Mouse lan	132.9675	440.9455	638.9575
chr15	13132	AK002850	Dab2	Mus musc	280.0738	607.4475	727.0371
chr14	68813	AK053909	Dock5	Mus musc	26.8206	58.164	61.0128
chr8	665536	XM_97760	EG665536	PREDICT	335.4343	727.4104	926.0835
chr3	69769	BC055879	Tnfaip8l2	Mus musc	262.2655	568.6952	575.7155
chr1	12633	U97076	Cflar	Mus musc	2411.424	5597.876	5921.082
chr3	67860	AK167006	S100a16	Mus musc	5772.804	12513.74	13027.02
chr9	208994	BC120577	Fam83b	Mus musc	1527.6	3310.93	3511.86
chr7	16190	BC112911	Il4ra	Mus musc	65.5739	142.0535	202.6475
chr2	279067	XM_89593	Gm13777	PREDICT	468.1575	1117.892	1014.093

chr7	74737	AK017569	Pcf11	Mus musc	1186.184	2769.786	2821.664
chr1	252903	BC054111	Ap1s3	Mus musc	153.7895	333.0515	333.5575
chr17	319625	AK085153	Galm	Mus musc	13.3328	52.8196	36.0346
chr4	54357	AK144315	Epb4.1l4b	Mus musc	1920.423	4842.21	4630.585
chr2	241274	BC027342	Pnpla7	Mus musc	1524.962	3300.159	3726.96
chr3	12977	BC066200	Csf1	Mus musc	4050.386	8764.224	11082.31
chr13	109700	AK169964	Itga1	Mus musc	16.1685	34.9836	54.9184
chr1	76707	AK031181	Clasp1	Mus musc	51.136	110.6055	123.5115
chr7	11717	BC040366	Ampd3	Mus musc	1158.463	2650.91	2939.553
chr7	11875	BC116823	Art5	Mus musc	67.7205	198.1075	280.2315
chr19	18797	AK146793	Plcb3	Mus musc	3653.942	7897.164	7992.24
chr17	17916	BC046502	Myo1f	Mus musc	735.6535	1589.31	1980.494
chr8	17095	BC005736	Lyl1	Mus musc	159.3475	344.1775	390.5095
chr18	225638	AY044451	Alpk2	Mus musc	106.3175	229.5755	365.6475
chr1	76867	BC005518	Rhbdd1	Mus musc	863.2896	2584.077	2542.556
chr1	381272	AK080399	A630095N	Mus musc	52.3616	240.9246	115.2815
chr7	18301	NM_00111	Fxyd5	Mus musc	2769.966	5979.892	7611.65
chr7	N/A	AK041267	N/A	Mus musc	16.0318	34.609	55.1082
chr3	381493	BC107307	S100a7a	Mus musc	32.2398	69.5957	123.6595
chr18	107022	AK018551	Gramd3	Mus musc	744.1255	1606.012	1650.968
chr7	53415	AK008630	Htati2	Mus musc	977.4275	2252.164	2108.87
chr5	100532	BC031198	Rel1	Mus musc	1663.336	3588.55	4146.632
chr1	16978	NM_00111	Lrrfip1	Mus musc	139.9115	301.8175	387.2275
chr5	57080	AK079487	Gtf2ird1	Mus musc	668.3368	1725.506	1441.728
chr14	N/A	BC049978	N/A	Mus musc	910.2214	1963.228	2175.282
chr2	1E+08	XM_00148	Gm4626	PREDICTI	25.8729	63.9561	55.7936
chr14	380928	AK137694	Lmo7	Mus musc	2769.77	6345.8	7717.708
chr12	238386	AK033160	Btbd7	Mus musc	24.8391	53.5504	83.9754
chr16	12737	BC002003	Cldn1	Mus musc	2337.712	5039.48	5318.496
chr19	54445	BC018388	Unc93b1	Mus musc	1630.954	4033.359	3515.626
chr3	229871	AK142824	Adh6b	Mus musc	205.7775	468.5715	443.427
chr11	N/A	AK148130	N/A	Mus musc	21.9034	47.1952	50.0055
chr17	239985	AK160334	Arid1b	Mus musc	144.2435	310.6686	350.7075
chr6	67861	BC037690	Akr1b10	Mus musc	393.1413	1774.894	846.5375
chr9	121021	AK220559	Cspg4	Mus musc	324.9815	773.7384	920.9307
chr17	665669	XM_97859	Gm7742	PREDICTI	260.4546	655.8635	560.6375
chr4	68777	BC020121	Tmem53	Mus musc	333.2315	1952.112	1229.366
chr2	1E+08	AK027935	Gm13179	Mus musc	145.7755	313.6615	353.7083
chr14	13449	BC004590	Dok2	Mus musc	214.2948	461.0115	515.6495
chr14	18753	AB201456	Prkcd	Mus musc	588.0935	1265.14	1638.816
chr9	71602	BC051391	Myo1e	Mus musc	2634.848	5668.227	6235.804
chr2	12953	AK041696	Cry2	Mus musc	434.3535	1028.714	958.1095
chr12	195733	BC037233	Grhl1	Mus musc	4265.658	9543.596	9172.883
chr17	19317	AK020722	Qk	Mus musc	426.9952	1219.184	917.7615
chr2	319876	AK052533	Cobll1	Mus musc	584.4324	1570.538	1255.523
chr11	11684	AK079232	Alox12	Mus musc	334.8681	1202.358	1151.944
chr6	330385	AK044653	9530026P	Mus musc	11.7294	30.2773	29.4561
chr7	16409	BC156094	Itgam	Synthetic	579.5035	1363.808	1244.304
chr9	665033	AM748256	Gm7455	Mus musc	35.9393	98.998	227.3891
chr9	18007	AK084609	Neo1	Mus musc	209.8861	450.5935	479.0115
chr9	71785	AK141551	Pdgfd	Mus musc	133.6786	286.9335	320.5743
chr8	16453	BC027234	Jak3	Mus musc	179.3495	663.7955	443.0715
chr19	414758	AK045970	Zfp826	Mus musc	385.7495	826.8475	989.4975



chr6	27056	AK156220	Irf5	Mus musc	89.0476	190.8635	207.9953
chr2	20732	BC005769	Spint1	Mus musc	930.0055	1992.823	2534.95
chr8	67866	AK018575	Wfdc1	Mus musc	13.671	29.29	31.1742
chr10	20393	AK132234	Sgk1	Mus musc	1546.824	3500.93	3313.134
chr15	68070	BC115886	Pdzd2	Mus musc	3805.83	8150.198	8939.781
chr16	72388	BC057871	Ripk4	Mus musc	1036.982	2220.66	2848.698
chr2	228775	BC012955	Trib3	Mus musc	243.7495	1891.875	1661.996
chr9	235330	AK076457	Ttc12	Mus musc	44.0914	94.3685	119.0436
chr5	231580	AK051394	Gak	Mus musc	16.097	52.4735	34.4467
chr3	77892	XM_00100	6720418B0	PREDICTI	228.7535	489.4896	548.9615
chr12	66375	BC016189	Dhrs7	Mus musc	1802.52	6040.76	3856.832
chr11	21944	BC152795	Tnfsf12	Synthetic	816.1319	1746.264	2100.518
chr4	N/A	M77174	N/A	Mouse pe	2944.268	9238.16	8093.952
chr4	N/A	AK145828	N/A	Mus musc	41.5537	88.9055	132.1093
chr3	56338	BC031850	Txnip	Mus musc	4663.024	16727.39	9976.492
chr3	24017	AK034135	Rnf13	Mus musc	22.6227	48.3932	115.4515
chrX	1E+08	XM_00147	Gm3735	PREDICTI	8.0251	23.8552	17.1658
chr8	21968	AK004063	Tom1	Mus musc	37.0193	79.1815	85.3768
chr9	66660	AK082294	Sltm	Mus musc	301.1135	665.6171	643.9603
chr16	224109	AK028367	Lrrc33	Mus musc	1180.799	2524.786	3775.905
chr5	19301	BC057975	Pxmp2	Mus musc	279.7695	1067.574	597.9935
chr7	11816	AK148747	Apoe	Mus musc	7655.08	22360.43	16358.58
chr13	21418	AK013900	Tcfap2a	Mus musc	2749.558	5874.014	6121.236
chr6	93838	BC048936	Dqx1	Mus musc	78.488	167.6455	221.6167
chr15	11732	AK086014	Ank	Mus musc	1848.694	3948.684	4116.31
chr8	16453	L33768	Jak3	Mus musc	582.6795	1993.836	1244.434
chr14	12289	AK032552	Cacna1d	Mus musc	214.4939	556.7576	458.0615
chr3	75007	AK213681	Fam63a	Mus musc	232.3415	547.5283	496.0855
chr14	192187	AK159416	Stab1	Mus musc	1689.828	3606.459	4484.857
chr17	78785	AK161301	Clip4	Mus musc	2275.19	4855.422	5268.224
chr12	70435	BC060610	2610204M	Mus musc	260.4915	555.8911	712.6355
chr1	212442	BC004045	Lactb2	Mus musc	990.0943	5520.46	2112.654
chr13	11624	BC118534	Ahrr	Mus musc	74.7594	159.5015	351.1755
chr7	68713	AK169960	Ifitm1	Mus musc	335.4475	715.6515	1223.706
chr7	11717	AK171276	Ampd3	Mus musc	28.3171	65.046	60.4086
chr18	225471	BC099933	Ticam2	Mus musc	219.8052	468.7415	608.0107
chr5	52331	AK009551	Stbd1	Mus musc	45.1369	177.1049	142.7475
chr2	74945	AK015552	4930471I2	Mus musc	12.8146	70.8836	27.8527
chr11	67880	BC012247	Dcxr	Mus musc	646.8321	1638.906	1378.425
chr18	70157	XM_90162	2210409D	PREDICTI	9.532	38.3125	20.311
chr17	63959	AF305501	Slc29a1	alt '12000'	2871.012	6117.443	7893.412
chr11	207742	AK032782	Rnf43	Mus musc	148.1775	371.9105	379.9955
chr4	16792	AK171116	Laptm5	Mus musc	1025.68	2185.146	2483.822
chr11	11370	BC026559	Acadvl	Mus musc	3430.704	24506.31	7308.734
chr14	18950	BC003788	Pnp1	Mus musc	3112.256	6675.408	6861.864
chr10	20869	AK171909	Stk11	Mus musc	205.0555	436.7878	508.5515
chr3	20912	BC062901	Stxbp3a	Mus musc	1247.596	2664.948	2657.445
chr10	116848	AK035400	Baz2a	Mus musc	192.103	409.0795	423.1785
chr2	18019	U36575	Nfatc2	Mus musc	512.2799	1090.876	1322.169
chr4	73133	XM_89787	3110021N	PREDICTI	29.4146	65.8064	62.6363
chr19	68214	AK019582	Gsto2	Mus musc	26.1351	116.4695	55.6517
chr11	217149	NM_00108	Cisd3	Mus musc	587.5155	4740.212	1251.004
chr16	22061	AF075435	Trp63	Mus musc	3874.706	10493.32	11579.35

chr17	N/A	AK178838	N/A	Mus musc	742.8771	1581.491	1904.76
chr1	12370	BC006737	Casp8	Mus musc	1568.275	3417.68	3711.134
chr1	50778	BC028634	Rgs1	Mus musc	51.5931	109.8295	213.9575
chr13	23882	BC001989	Gadd45g	Mus musc	803.0535	1868.266	1786.088
chr9	66952	BC027409	2310030G	Mus musc	997.1354	2154.822	2122.344
chr3	19218	D10204	Ptger3	Mus musc	754.326	2543.2	1783.712
chr8	102093	AK165815	Phkb	Mus musc	126.3575	268.6842	286.9486
chr7	69217	AK088969	Plekha4	Mus musc	125.9946	267.8704	359.6855
chr11	574428	AK171931	Zmynd15	Mus musc	137.7435	292.8155	296.6741
chr6	11810	BC003792	Apobec1	Mus musc	580.3974	1516.95	1233.519
chr6	73344	BC052362	1700034J0	Mus musc	90.2495	191.7535	202.5135
chr1	170755	BC018363	Sgk3	Mus musc	694.0875	1473.679	1651.7
chr11	217353	BC004840	Tmc6	Mus musc	723.8475	1745.605	1536.864
chr11	20787	AK154424	Srebf1	Mus musc	3118.92	14100.73	7297.366
chr12	211978	AK041668	Zfyve26	Mus musc	66.3234	140.7965	155.0675
chr7	330660	AK087912	Btbd16	Mus musc	38.138	80.9435	87.7535
chr12	74335	BC043073	Xrcc3	Mus musc	609.1295	1801.56	1292.777
chr8	15446	BC021157	Hpgd	Mus musc	573.7347	1217.414	1297.524
chr18	240354	BC046536	Malt1	Mus musc	484.7295	1028.522	1096.2
chr17	14999	X62743	H2-DMb1	M.musculu	203.2975	503.0395	431.3174
chr4	16792	BC020993	Laptm5	Mus musc	1034.104	2193.892	2298.29
chrX	94216	BC057648	Col4a6	Mus musc	124.6011	264.3455	330.7604
chr5	231130	BC052083	Tnip2	Mus musc	811.4044	1721.274	2300.752
chr1	N/A	BC010335	N/A	Mus musc	936.2836	1986.176	2241.774
chr1	109032	BC094500	Sp110	Mus musc	183.3075	475.0377	388.8475
chr15	1E+08	XM_00148	Gm4365	PREDICTI	130.7215	277.2935	307.0398
chr13	20499	AK164405	Slc12a7	Mus musc	71.0756	335.453	174.7175
chr7	N/A	AK040659	N/A	Mus musc	22.2332	47.1421	61.9505
chr1	76187	BC026584	Adhfe1	Mus musc	1379.968	12302.99	3643.004
chr19	545288	BC092260	Cyp2c67	Mus musc	54.9314	130.2038	116.4395
chr4	14595	BC053006	B4galt1	Mus musc	2025.144	4596.231	5060.622
chr7	78610	AK089900	Uvrag	Mus musc	59.0535	144.2635	125.1275
chr9	17281	AK013060	Fyco1	Mus musc	41.7535	88.4374	96.7658
chr8	1E+08	XM_00147	D830025C	PREDICTI	22.3172	47.2655	50.9663
chr19	69319	XM_00100	1700001K2	PREDICTI	32.5937	71.7296	69.0262
chr7	N/A	AK204824	N/A	Mus musc	746.1478	1855.384	1580.017
chr16	N/A	AK144897	N/A	Mus musc	35.1777	75.2155	124.7055
chr2	14269	BC003867	Fnbp1	Mus musc	222.4215	535.8549	470.6715
chr14	50523	AY015062	Lats2	alt '49324'	48.5348	102.668	156.5835
chr14	380928	NM_20152	Lmo7	Mus musc	2992.342	6794.66	7612.582
chr17	106628	AK088909	Trip10	Mus musc	2181.588	4613.214	4802.662
chr5	320661	XM_00147	D5ErtD579	PREDICTI	479.0205	1145.83	1012.806
chr6	N/A	AK028709	N/A	Mus musc	223.2633	472.0123	553.5435
chr11	11568	AK159377	Aebp1	Mus musc	5755.204	12163.7	13520.66
chr18	338360	BC028804	B430212C	Mus musc	39.7829	88.3455	84.0755
chr10	16969	AF086830	Zbtb7a	Mus musc	2375.999	5493.305	6343.882
chr8	15484	BC066209	Hsd11b2	Mus musc	116.0075	321.7032	392.1595
chr15	27008	AK031386	Micall1	Mus musc	209.379	457.201	442.3895
chr14	N/A	AK076847	N/A	Mus musc	66.1651	171.1551	139.7941
chr1	13714	BC041679	Elk4	Mus musc	2198.53	4644.738	5234.364
chr8	26383	AK046935	Fto	Mus musc	128.7895	272.0368	308.9915
chr7	666529	XM_00147	Gm8149	PREDICTI	40.7128	85.9882	95.1355
chr5	20345	AK089188	Selpg	Mus musc	438.3095	925.6275	970.5455

chr3	329702	XM_28386	Dcst2	PREDICT	41.8981	213.7575	120.4197
chrX	73341	BC156697	Arhgef6	Synthetic	1132.204	2390.486	2495.361
chr11	67338	BC118517	Rffl	Mus musc	864.7317	1994.792	2045.004
chr11	67477	AK040172	Abhd15	Mus musc	90.6601	664.0275	327.2575
chr12	20702	BC010984	Serpina1c	Mus musc	63.2782	145.3975	133.5175
chr10	N/A	AK154406	N/A	Mus musc	22.9875	170.3895	48.4949
chr2	241274	EU046569	Pnpla7	alt 'BC027	1770.166	4081.464	3967.3
chr4	67460	BC046972	Decr1	Mus musc	1074.926	5654.15	2267.383
chr9	102632	BC045199	Acad11	Mus musc	889.6055	3552.942	1876.02
chrX	19703	AK167648	Renbp	Mus musc	713.0547	1503.438	1546.529
chr16	68172	BC051469	Rpl39l	Mus musc	58.3859	123.0321	229.5835
chr8	14456	BC005444	Gas6	Mus musc	6257.247	13183.18	16780.21
chr15	75646	AK090343	Rai14	Mus musc	100.0495	219.0995	210.7375
chrX	69656	BC024062	Pir	Mus musc	185.2846	390.2615	484.5295
chr2	14462	AK156634	Gata3	Mus musc	4873.166	10263.57	10362.76
chr6	20678	AK087772	Sox5	Mus musc	106.2215	259.4315	223.7055
chr4	338355	AK049476	Fkbp15	Mus musc	302.909	637.899	673.5235
chr9	235627	XM_97757	Nbeal2	PREDICT	167.4555	356.8511	352.6075
chr1	226414	AK077820	Dars	Mus musc	38.0477	84.678	90.0855
chr14	72549	BC033929	Reep4	Mus musc	2712.238	5709.557	6106.737
chr19	14675	BC027015	Gna14	Mus musc	678.9795	1529.431	1723.812
chr7	56460	BC090668	Pkp3	Mus musc	4683.265	9856.656	10075.7
chr16	56722	BC018559	Litaf	Mus musc	5059.844	10648.49	11258.63
chr2	668880	XM_00100	Stard9	PREDICT	127.4795	268.2715	354.8717
chr17	258095	BC152956	Olf1r119	Synthetic	23.4911	61.6414	57.7442
chrX	59026	AK165648	Huwe1	Mus musc	32.5517	68.4977	106.0215
chr10	14160	AK047873	Lgr5	Mus musc	10.2535	21.573	37.0731
chr3	N/A	AF276966	N/A	Mus musc	63.6142	133.8001	195.2815
chr11	26397	AK053378	Map2k3	Mus musc	301.7875	660.1584	634.7035
chr4	207920	BC031468	Esrp1	Mus musc	2427.522	5686.612	5105.318
chr5	403178	BC034116	Plcx1	Mus musc	463.0435	1375.152	1505.016
chr4	1E+08	XM_00147	Hrct1	PREDICT	16.2225	49.2884	34.0995
chr19	1E+08	XM_00147	Gm2601	PREDICT	89.4811	487.3037	188.0315
chr6	320189	AK035031	9430076C	Mus musc	44.2193	92.9155	169.3735
chr11	72324	BC114352	Plxdc1	Mus musc	207.5895	436.1955	572.042
chr1	66343	BC131993	Tmem177	Mus musc	535.6195	1261.115	1159.019
chr6	620031	BC006653	MGC7817	Mus musc	150.4453	316.0755	330.3035
chr13	16195	AK170020	Il6st	Mus musc	58.6639	123.2275	151.4155
chr10	17105	BC002069	Lyz2	Mus musc	3242.796	8776.394	6811.013
chr14	50905	AF208109	Il17rb	Mus musc	265.2455	865.2815	817.6315
chr3	13040	BC002125	Ctss	Mus musc	967.2295	2231.844	2031.44
chr17	17916	AK036840	Myo1f	Mus musc	774.4435	1626.365	1960.398
chr2	228850	AK083733	Ralgapb	Mus musc	142.4144	304.5795	299.0395
chr7	64661	AK131606	Krtdap	Mus musc	11755.83	24678.81	26003.87
chr9	74153	BC094906	Ube1l	Mus musc	226.3415	573.1514	475.1295
chr13	1E+08	XM_00147	Gm4039	PREDICT	23.3992	315.2247	165.5208
chr14	64929	BC111874	Scel	Mus musc	2390.964	5018.648	5259.294
chr9	208943	BC062270	Myo5c	Mus musc	17.4204	222.4455	66.0099
chr8	93742	AK137690	Pard3	Mus musc	208.1595	436.8635	436.9435
chr6	18979	BC012706	Pon1	Mus musc	6.9472	194.4955	14.5778
chr5	N/A	BC046508	N/A	Mus musc	14.6113	30.6572	43.2579
chr2	66860	BC079914	Tanc1	Mus musc	2241.2	4701.267	4981.346
chr3	73124	AK149286	Golim4	Mus musc	67.6118	141.8195	199.9335

chrX	11836	BC004757	Araf	Mus musc	2872.134	6911.622	6174.328
chr17	14999	BC002237	H2-DMb1	Mus musc	160.7261	426.9155	337.0595
chr15	266632	BC051676	Irak4	Mus musc	252.6496	628.1895	571.0235
chr10	N/A	AK188571	N/A	Mus musc	604.9858	2275.123	1268.438
chr10	66844	AK002824	Ormdl2	Mus musc	771.8197	1666.998	1617.761
chr3	229228	BC027267	Nudt6	Mus musc	331.4895	1061.196	694.7908
chr11	11421	BC083109	Ace	Mus musc	429.1375	899.3835	1097.746
chr18	626275	XM_00147	A930012L	PREDICTI	418.6106	959.9935	877.1311
chr2	N/A	AK144626	N/A	Mus musc	7.7678	40.9856	16.2754
chr7	232970	NM_00110	Phldb3	Mus musc	1073.672	2249.237	2333.222
chr12	238386	AK122522	Btbd7	Mus musc	85.4464	178.9935	207.1515
chr1_randc	1E+08	AK139759	LOC10004	Mus musc	212.2455	699.0695	444.5755
chr7	N/A	AK184603	N/A	Mus musc	691.3335	1447.672	1480.5
chr4	230648	AK079503	4732418C	Mus musc	81.5375	170.6902	225.1695
chr7	66141	BC010291	Ifitm3	Mus musc	5707.24	11946.95	13273.31
chr11	29856	AJ010305	Smtn	Mus musc	2662.482	6088.216	8056.956
chrX	1E+08	AK170409	Gm14636	Mus musc	77.5455	162.2965	267.6235
chr16	224139	BC061204	Golgb1	Mus musc	910.1075	1904.76	1984.735
chr9	72169	BC027353	Trim29	Mus musc	5938.262	12804.87	12423.9
chr13	20719	U25844	Serpnb6a	Mus musc	2035.85	4259.222	5002.49
chr2	18024	AK029360	Nfe2l2	Mus musc	49.7981	128.5475	104.1735
chr2	N/A	AK141415	N/A	Mus musc	37.1145	77.6295	88.695
chr4	21936	AF229433	Tnfrsf18	alt 'AITR#	457.5488	991.2415	956.956
chr3	68723	AK041026	Hnrn	Mus musc	174.2575	3851.214	3501.754
chr6	75914	AK144547	Exoc6b	Mus musc	21.183	44.295	111.2455
chr17	70274	AJ315551	Ly6g6e	Mus musc	113.7726	299.4055	237.8835
chr1	20846	U06924	Stat1	Mus musc	47.5308	148.7399	99.366
chr1	108735	AK075812	Sft2d2	Mus musc	2115.064	4472.134	4420.575
chr7	233765	BC060678	Plekha7	Mus musc	96.1654	204.1855	200.9815
chr4	12896	BC145859	Cpt2	Mus musc	2053.694	11995.71	4490.256
chr8	1E+08	XM_00147	LOC10003	PREDICTI	58.8819	267.2395	170.3771
chr4	70568	AK017357	Cpne3	Mus musc	35.1467	93.5575	73.4297
chr17	20975	AK161467	Synj2	Mus musc	859.0425	1794.64	2516.112
chr10	73910	BC030858	Arhgap18	Mus musc	1698.198	3546.666	3617.648
chr9	17436	AK163403	Me1	Mus musc	1817.67	5775.904	3795.762
chr14	21834	BC089035	Thrb	Mus musc	356.5795	1212.994	744.6072
chr17	N/A	AK169509	N/A	Mus musc	41.807	87.2935	117.8135
chr9	121021	AK052394	Cspg4	Mus musc	96.9095	265.5815	298.07
chr1	67647	AK034159	4930523C	Mus musc	399.7635	1287.716	1156.646
chr15	16185	BC099616	Il2rb	Mus musc	42.0661	87.778	92.597
chr1	170755	AK171959	Sgk3	Mus musc	299.6615	625.2115	703.4075
chr10	216001	AK083520	Cbara1	Mus musc	36.1927	75.5115	101.5995
chr9	235302	AK052711	D630033O	Mus musc	25.8114	139.7375	231.3275
chr17	N/A	AK157605	N/A	Mus musc	16.4727	49.32	172.7775
chr13	319182	BC132584	Hist1h2bh	Mus musc	24.9413	80.1259	52.1979
chrX	666468	BC089500	Atg4a	Mus musc	455.278	949.2863	1120.62
chr2	1E+08	XM_00147	Gm13342	PREDICTI	589.6908	1455.914	1229.308
chr6	93675	AY256575	Clec2i	Mus musc	47.7684	99.579	105.3713
chr17	14963	AY989856	H2-BI	Mus musc	158.3215	423.4955	329.9715
chr7	75547	AY033771	Akap13	Mus musc	1709.261	4919.572	5538.042
chr4	66938	BC025637	1700029G	Mus musc	1086.338	2263.952	2267.854
chr7	16170	AK038319	Il16	Mus musc	111.1375	247.4431	231.6015
chr1	620078	BC007193	C130026I2	Mus musc	97.4635	341.9787	203.0755



chr14	380912	BC053701	Zfp395	Mus musc	247.5278	648.1015	515.5435
chr4	69863	AK007856	Ttc39b	Mus musc	97.0315	267.902	202.0815
chr14	68755	BC037677	Cgrrf1	Mus musc	367.3215	764.8955	778.7476
chr9	11433	NM_00110	Acp5	Mus musc	2227.436	8403.681	4636.961
chr2	228026	AK085215	Pdk1	Mus musc	200.9615	427.6642	418.3055
chr3	19220	AK014673	Ptgfr	Mus musc	260.8435	1029.992	2136.856
chr15	211401	AK046628	Mtss1	Mus musc	672.0475	1398.704	1410.682
chr4	19715	AF051348	Rex2	Mus musc	33.9871	73.3395	70.7169
chr1	208777	AK086298	Sned1	Mus musc	90.3493	187.9795	250.8035
chr3	77559	AK036225	Agl	Mus musc	4021.67	10577.81	11538.92
chr8	213435	AK165216	Mylk3	Mus musc	129.8795	270.2215	419.1215
chr8	26889	BC021625	Cln8	Mus musc	1854.894	4194.9	3989.912
chr8	11733	AK134267	Ank1	Mus musc	3017.817	9883.03	13009.46
chr2	20612	Z36234	Siglec1	M.musculu	45.9274	108.9175	95.5235
chr4	20148	AK087137	Dhrs3	Mus musc	181.6396	738.7973	488.5015
chr10	70503	AM180091	Ddo	Mus musc	19.406	298.1035	40.3569
chr11	76892	AK171077	Rnft1	Mus musc	2267.452	4715.402	5576.848
chr4	381581	AK047723	C030017K	Mus musc	24.3897	57.2445	50.7189
chr15	105732	BC117947	Fam83h	Mus musc	2072.572	4314.235	4309.26
chr11	19285	BC117527	Ptrf	Mus musc	2465.348	7976.04	8369.292
chr2	98878	BC012272	Ehd4	Mus musc	2022.3	4201.506	5218.428
chr7	233016	BC027279	Blvrb	Mus musc	1318.59	3494.867	2739.277
chr6	67138	AK011047	Herc5	Mus musc	241.9481	502.6137	519.8511
chr15	239337	AK054015	Adamts12	Mus musc	169.6455	367.9395	417.09
chr7	101602	BC064101	Al467606	Mus musc	380.3735	789.8235	988.4155
chr10	606736	AK083339	C920009B	Mus musc	47.4464	98.5195	121.7875
chr4	329877	BC040798	Dennd4c	Mus musc	621.6835	1290.792	1424.511
chr4	67103	BC014865	Ptgr1	Mus musc	3259.882	6768.05	7113.77
chr1	226999	AK166114	Slc9a2	Mus musc	11.1469	26.1161	23.1403
chr11	215512	BC055690	Fam117a	Mus musc	766.9038	2015.864	1591.953
chr17	1E+08	NM_00109	Ttll2	Mus musc	12.4103	131.4955	90.3335
chr10	75886	BC061011	Gstt4	Mus musc	16.8311	123.2875	34.9344
chr6	243377	BC125635	Svs1	Mus musc	11.0206	26.9873	22.8582
chr1	74081	AK016759	Cep350	Mus musc	59.8672	124.1495	151.5934
chr3	71913	AK010144	Tmem79	Mus musc	429.0152	1030.176	889.5255
chr17	21356	BC015074	Tapbp	Mus musc	2591.827	6294.741	5373.802
chr13	66631	BC033469	Hiatl1	Mus musc	2669.248	5533.34	6342.673
chr12	68520	BC132248	Zfyve21	Mus musc	1520.162	3891.586	3155.782
chrX	1E+08	XM_00147	Gm1971	PREDICTI	35.3333	112.5435	73.6555
chr11	71962	BC114427	Gatsl3	Mus musc	157.6075	428.6755	437.4635
chr3	229445	AK040071	Ctso	Mus musc	60.7229	223.7175	125.8355
chr7	1E+08	XM_00148	Gm4569	PREDICTI	6762.791	15613.85	14012.25
chr7	22228	BC012697	Ucp2	Mus musc	9398.432	19465.78	19780.15
chr9	71819	AK013939	Kif23	Mus musc	87.0395	222.1589	250.1995
chr16	74185	AK013167	Gbe1	Mus musc	16.9582	50.1781	35.1121
chr9	17386	BC125320	Mmp13	Mus musc	9.5304	26.7297	19.7327
chr16	106393	BC145687	Srl	Mus musc	7483.856	15492.23	17796.01
chr1	18173	BC109137	Slc11a1	Mus musc	308.2227	691.5135	638.0143
chr1	621362	XM_89640	Gm6217	PREDICTI	42.8008	88.5775	95.3015
chr15	239337	AK135354	Adamts12	Mus musc	102.7015	212.5308	237.6755
chr15	20363	BC001991	Sepp1	Mus musc	5273.127	11604.12	10911.58
chrX	12229	BC053392	Btk	Mus musc	529.0195	1094.258	1396.558
chr9	67213	BC027248	Cmtm6	Mus musc	1889.53	3908.054	3952.384

chr12	18755	BC031121	Prkch	Mus musc	1927.726	3985.962	4078.252
chr8	11459	BC014877	Acta1	Mus musc	17925.81	37064.4	41451.43
chr2	22034	AK041172	Traf6	Mus musc	34.1695	70.6436	94.7341
chr9	72330	BC125576	Kbtbd5	Mus musc	659.3775	3071.892	3995.068
chr6	23845	BC104364	Clec5a	Mus musc	36.1813	74.7815	83.6264
chr4	71801	BC016134	Plekhf2	Mus musc	757.6155	1602.346	1565.66
chr17	50498	BC008209	Ebi3	Mus musc	255.8886	528.7567	579.1429
chr5	71101	AK156117	4933407H	Mus musc	47.8433	113.1495	98.8456
chr6	17313	BC069922	Mgp	Mus musc	505.6576	1200.67	1044.368
chr16	1E+08	XM_00147	Gm15342	PREDICT	149.6115	308.9515	321.1255
chr7	N/A	AK040808	N/A	Mus musc	69.8916	190.9735	222.9215
chr4	414068	AK144923	BC024582	Mus musc	52.6432	108.6887	109.0855
chr16	57781	AK170735	Cd200r1	Mus musc	22.026	45.4714	91.2435
chr17	224833	BC029008	Al661453	Mus musc	4477.194	9242.726	9827.108
chr3	676914	XM_00147	LOC67691	PREDICT	154.7015	810.7055	822.5875
chr1	14261	BC011229	Fmo1	Mus musc	1673.96	11508.71	6140.26
chr9	22003	BC132035	Tpm1	Mus musc	9471.096	19548	20079.86
chr2	76051	AK076333	Ganc	Mus musc	547.3935	3015.96	1773.788
chr3	N/A	AK040865	N/A	Mus musc	10.1978	43.2698	21.0471
chrX	56774	BC129908	Slc6a14	Mus musc	225.9815	466.3864	479.6869
chr14	N/A	NM_00111	N/A	Mus musc	1388.386	4187.668	3220.227
chr19	16998	AK131126	Ltbp3	Mus musc	2120.562	5172.786	4373.742
chrX	625508	XM_89008	Gm14596	PREDICT	9.9879	39.9919	20.5973
chr12	77219	AK040396	Ptgr2	Mus musc	73.3654	211.6799	154.682
chr5	19303	AK084243	Pxn	Mus musc	419.2383	1069.166	1257.017
chr7	12971	AK163801	Crym	Mus musc	33.0681	68.1456	71.9456
chr19	20411	AK186618	Sorbs1	Mus musc	1257.924	4107.71	3033.044
chr11	16671	XM_98153	Krt33b	PREDICT	128.2996	332.7315	264.1875
chr1	208372	BC107370	Asb18	Mus musc	25.0426	51.5517	117.7775
chr11	69864	BC026941	1810065E	Mus musc	9.7776	24.6933	28.2242
chr8	77087	BC068270	Ankrd11	Mus musc	1082.748	2553.194	2228.522
chr4	100434	BC113167	Slc44a1	Mus musc	1153.57	2576.101	2374.13
chr6	93970	NM_05315	Klra18	Mus musc	7.9556	35.3573	16.3725
chr5	665270	AK030142	Pib1	Mus musc	49.921	102.7295	127.3195
chr8	102093	AK089493	Phkb	Mus musc	148.5175	314.29	305.6155
chr13	27015	AK042272	Polk	Mus musc	61.0688	125.6411	131.8535
chr6	338523	BC145848	Jhdm1d	Mus musc	799.125	1643.51	2016.948
chr12	68832	AK036177	1110057K	Mus musc	85.6736	176.1915	220.3535
chr9	70031	BC027554	Cmtm8	Mus musc	251.494	674.7915	626.1335
chr1	214855	AK156376	Arid5a	Mus musc	405.6106	833.9595	997.3751
chr13	20723	BC029900	Serpib9	Mus musc	471.9415	1666.078	1372.019
chr1	N/A	BC072557	N/A	Mus musc	15.9959	35.2384	43.2263
chr10	213783	AK033676	Plekhg1	Mus musc	104.78	226.6895	215.3979
chr1	27280	BC023408	Phlda3	Mus musc	394.9675	946.6595	811.8395
chr18	16149	BC003476	Cd74	Mus musc	113.8644	234.0235	298.1593
chr11	192897	AK144111	Itgb4	Mus musc	3124.705	6420.178	6706.475
chr10	68371	BC052783	Pbld	Mus musc	25.0786	343.3215	51.5212
chr4	1E+08	XM_00147	Mup10	PREDICT	286.3915	1592.538	588.1335
chr2	N/A	AK188320	N/A	Mus musc	825.4955	1694.028	1880.97
chr2	12505	BC051388	Cd44	Mus musc	4099.461	8411.274	10203.96
chr19	24069	AK015885	Sufu	Mus musc	57.1566	117.2675	134.9697
chr5	114664	AK049355	Hsd17b11	Mus musc	26.1133	59.3594	53.5679
chr11	74370	AK161011	Rptor	Mus musc	198.9706	483.5969	408.1295



chr3	1E+08	XM_00147	Gm9790	PREDICT	2696.063	6892.942	5528.72
chr5	N/A	AK142255	N/A	Mus musc	137.7755	282.5295	416.5715
chr12	67732	BC060949	Iah1	Mus musc	882.6443	2329.628	1809.678
chr6	22320	BC012668	Vamp8	Mus musc	1502.87	3080.874	3115.278
chr17	1E+08	AK015947	Rnaset2a	Mus musc	158.3895	324.6835	406.7518
chr17	23853	BC120500	Def6	Mus musc	798.2595	1636.294	1884.554
chr6	N/A	AK018014	N/A	Mus musc	60.1611	162.3575	123.3015
chr8	26364	AK004577	Cd97	Mus musc	153.7148	315.0055	348.1015
chr8	65972	BC054852	Ifi30	Mus musc	3143.841	6440.728	7617.138
chr7	1E+08	XM_00147	Gm4084	PREDICT	22.6562	46.4128	57.5896
chr7	11871	S79913	Art2a	Rt6 (Rt6-1	9.0844	25.3568	18.6096
chrX	17144	BC119510	Magea8	Mus musc	34.9155	134.2304	71.5096
chr13	109620	AK009006	Dsp	Mus musc	7953.434	16287.59	18660.49
chr3	19260	BC055377	Ptpn22	Mus musc	115.0149	235.5335	261.8095
chrX	245536	BC048573	Gm614	Mus musc	34.399	70.4339	79.7615
chr13	1E+08	XM_00147	Gm11275	PREDICT	84.8955	197.8055	173.807
chr7	319430	BC145834	Gpr77	Mus musc	51.4667	105.3555	118.4375
chrX	19703	BC014821	Renbp	Mus musc	689.6994	1411.806	1465.914
chr11	1E+08	BC118042	Gm12568	Mus musc	90.405	259.2195	185.0395
chr6	70686	AK035652	Dusp16	Mus musc	119.236	244.0387	353.0915
chr7	68713	BC090972	Ifitm1	Mus musc	120.4744	246.5649	477.4915
chr7	75547	BC051232	Akap13	Mus musc	1556.782	3602.887	5092.592
chr9	319899	AK049320	Dock6	Mus musc	58.9756	175.2095	128.6162
chr5	50883	AK170235	Chek2	Mus musc	184.6434	377.6375	458.3664
chr14	71704	BC005517	Arhgef3	Mus musc	1280.838	2619.36	2745.022
chr1	14897	AK032919	Trip12	Mus musc	27.2348	55.6877	115.3799
chr17	63959	AK205461	Slc29a1	Mus musc	671.2737	1576.24	1987.894
chr16	78809	BC145794	4930562C	Mus musc	81.5015	166.5822	180.2749
chrX	59026	AK166712	Huwe1	Mus musc	41.0151	85.4535	83.8275
chr6	18705	XM_00148	Pik3c2g	PREDICT	12.1307	24.7903	27.3453
chr17	13078	BC050063	Cyp1b1	Mus musc	170.0695	562.9215	347.5375
chr17	52614	BC120538	Emr4	Mus musc	22.3667	54.1902	45.7062
chr8	20911	BC003477	Stxbp2	Mus musc	1923.935	5174.89	3931.244
chr6	330260	AK210368	Pon2	Mus musc	136.0692	415.4915	278.0309
chr17	21815	BC005724	Tgif1	Mus musc	2329.792	4807.818	5806.762
chr3	17235	BC061167	Smcp	Mus musc	6.1182	13.5109	12.5005
chr9	15235	BC051393	Mst1	Mus musc	161.7115	342.4334	332.6835
chr5	11867	BC092051	Arpc1b	Mus musc	6870.234	15562.96	15121.07
chr19	N/A	AK076939	N/A	Mus musc	67.2838	137.4075	159.152
chr2	71995	AK005451	Erv3	Mus musc	15.073	30.78	37.3158
chr10	1E+08	XM_00147	Gm4104	PREDICT	9.3013	28.7232	22.4185
chrX	13405	AK036936	Dmd	Mus musc	390.5095	797.1923	1443.647
chr10	16969	AK149961	Zbtb7a	Mus musc	2492.118	5468.42	5957.228
chr14	668253	AK080165	Dleu2	Mus musc	350.8518	716.1755	887.7979
chr17_rand	66616	AK194036	Snx9	Mus musc	2019.639	4156.684	4122.064
chr11	70355	NM_00111	Gprc5c	Mus musc	178.7775	364.8755	366.9068
chr1	320078	BC025654	Olfml2b	Mus musc	2663.176	5433.799	6186.27
chr2	19215	BC043015	Ptgds	Mus musc	562.6395	1147.807	1294.24
chr16	547253	AK005563	Parp14	Mus musc	67.3038	146.1115	137.2786
chr11	69922	AK089825	Vrk2	Mus musc	15.188	30.9653	63.9361
chr8	234839	BC042207	Fam38a	Mus musc	2114.364	4783.126	4309.996
chr11	N/A	AK136017	N/A	Mus musc	48.6405	99.1435	130.1915
chr4	73349	AK133010	1700042G	Mus musc	11.2471	22.9224	27.293

chr15	27008	AK007847	Micall1	Mus musc	28.9761	73.0403	59.0535
chr19	73458	XM_89501	1700055N	PREDICT	116.7155	3106.936	2612.888
chr3	11529	BC047267	Adh7	Mus musc	340.7795	694.3075	1213.59
chr16	381033	AK028773	Gm1600	Mus musc	44.341	175.4355	193.5795
chr1	22019	AK038041	Tpp2	Mus musc	250.2275	509.4275	524.4455
chr17	106759	BC094338	Ticam1	Mus musc	701.0835	1427.223	1606.152
chr6	12922	AY445512	Crhr2	Mus musc	96.8135	196.9293	329.0555
chr13	66695	BC145904	Aspn	Mus musc	3046.22	9274.004	12762.06
chr7	16790	AK171427	Anpep	Mus musc	3244.912	6599.304	7600.794
chr7	12493	AK155663	Cd37	Mus musc	365.3975	743.0695	778.3895
chr6	232449	AK030961	Dera	Mus musc	19.1253	38.879	66.2599
chr15	239319	AK052796	Card6	Mus musc	150.4935	419.5075	305.8855
chr6	12332	BC003480	Capg	Mus musc	2635.23	5353.208	6121.762
chr6	1E+08	XM_00147	Gm2358	PREDICT	23.4455	47.622	60.6309
chr18	71302	AK007768	Arhgap26	Mus musc	22.1484	97.7735	44.9872
chr19	52874	AK031451	D19Bwg13	Mus musc	89.9282	182.5854	226.2335
chr10	17997	AK090040	Nedd1	Mus musc	24.0977	48.9076	54.1453
chr2	241694	AK042986	Ralgapa2	Mus musc	10.4742	26.0887	21.2547
chr10	58223	AK080125	Mmp19	Mus musc	1289.42	3853.88	5052.65
chr8	71607	BC039809	Snx20	Mus musc	51.4174	104.2955	144.5455
chr18	12475	BC057889	Cd14	Mus musc	116.0022	235.2075	240.6721
chrX	N/A	AK139871	N/A	Mus musc	180.3715	365.7135	483.085
chr7	11816	BC028816	Apoe	Mus musc	8440.61	20132.01	17111.27
chr17	22324	CT010321	Vav1	Mus musc	249.4107	508.1937	505.4415
chr6	101095	AK081854	Zfp282	Mus musc	292.7075	593.0469	679.4995
chr1	72481	BC064105	2610203C	Mus musc	275.1135	864.5335	557.3815
chr6	18705	AK090232	Pik3c2g	Mus musc	15.687	31.7727	40.7644
chr13	11472	AK047768	Actn2	Mus musc	37.0303	125.1137	120.5655
chr2	66205	BC005501	Cd302	Mus musc	1002.44	2028.322	2254.44
chr7	18400	BC015078	Slc22a18	Mus musc	62.3214	163.0189	143.0055
chr9	12046	BC120720	Bcl2a1c	Mus musc	16.1952	32.7634	62.3704
chr9	72560	AK161457	Naalad2	Mus musc	240.4721	540.602	610.1175
chr7	18400	BC003734	Slc22a18	Mus musc	517.5774	1141.743	1046.792
chr16	224273	AK162506	Crybg3	Mus musc	76.1243	153.9215	276.1175
chr7	29875	AK163056	lqgap1	Mus musc	106.7857	215.9175	239.4908
chr16	67102	AK044670	D16Ert47	Mus musc	1330.498	2793.114	3310.096
chr2	241274	BC021312	Pnpla7	Mus musc	1861.816	3862.176	3763.94
chr17	11974	BC024733	Atp6v0e	Mus musc	2541.212	7233.604	5136.2
chr1	621495	XM_89647	Krtap28-10	PREDICT	58.7297	157.6848	118.6895
chr15	207818	BC132460	Smagp	Mus musc	1613.038	3420.476	3259.472
chr7	233765	AK160810	Plekha7	Mus musc	811.097	1710.378	1638.986
chr12	112407	BC044926	Egln3	Mus musc	3016.372	11271.83	12389.4
chr7	68713	BC090258	lfitm1	Mus musc	355.3055	717.9515	1294.024
chr5	16599	AK010713	Klf3	Mus musc	4553.306	9481.896	9198.538
chr2	18041	BC012651	Nfs1	Mus musc	180.0335	363.9951	363.6895
chr11	14055	BC007135	Ezh1	Mus musc	695.0355	1403.326	1492.547
chr15	72318	BC039640	Cyth4	Mus musc	289.9429	585.4066	672.1135
chr11	26397	BC007467	Map2k3	Mus musc	4454.612	8991.93	10466.03
chrX	18636	BC132369	Cfp	Mus musc	888.5675	1793.527	2434.334
chr8	234839	BC044757	Fam38a	Mus musc	644.816	1506.518	1603.521
chr17	15039	AB359229	H2-T22	Mus musc	876.6875	2019.572	1769.194
chr11	11927	BC027632	Atox1	Mus musc	1006.496	2482.884	2030.378
chr3	20321	AK167289	Frrs1	Mus musc	399.7906	806.3608	838.3035



chr11	76719	AK153679	1700081L1	Mus musc	189.5499	382.2835	494.7807
chr4	12579	BC002010	Cdkn2b	Mus musc	170.1582	412.6355	346.0195
chr3	229665	AK137549	Ampd1	Mus musc	21.3593	43.0495	68.4786
chr1	18777	BC013536	Lypla1	Mus musc	361.8495	729.2755	731.3712
chr4	242700	BC057856	Il28ra	Mus musc	285.2075	574.7416	610.7365
chr3	71887	BC117498	Ppm1j	Mus musc	392.8512	791.6206	909.159
chr11	207742	BC131957	Rnf43	Mus musc	1249.33	3139.279	3727.536
chr7	69217	BC030731	Plekha4	Mus musc	214.9143	432.8876	638.6635
chr1	75345	AK040678	Slamf7	Mus musc	44.2506	89.1167	91.9715
chr17	22324	AK151214	Vav1	Mus musc	899.0837	1810.612	1932.232
chr17	15024	BC021751	H2-T10	Mus musc	1052.253	2118.658	2374.322
chr17	224902	AK161772	Safb2	Mus musc	1648.415	3318.664	3349.302
chr1	12825	AK031544	Col3a1	Mus musc	53.2658	107.2255	293.1755
chr17	22324	BC020487	Vav1	Mus musc	230.5555	464.0895	558.9055
chr3	14707	BC002316	Gng5	Mus musc	2458.286	4948.216	5044.134
chr7	14159	BC129919	Fes	Mus musc	735.921	1481.244	1647.096
chr6	1E+08	XM_00147	Gm2052	PREDICTI	41.6267	83.7555	98.6775
chr7	16170	BC058709	Il16	Mus musc	284.3215	572.0635	683.2315
chr11	N/A	AK158967	N/A	Mus musc	595.6395	1402.032	1258.988
chr19	12495	BC011278	Entpd1	Mus musc	1923.617	3870.022	5038.636
chr11	16664	BC003325	Krt14	Mus musc	11852.36	23843.94	24841.85
chr9	67095	AK041436	Trak1	Mus musc	710.5515	1428.95	1571.187
chr6	1E+08	XM_00147	Gm13861	PREDICTI	28.9485	58.214	95.8413
chr11	117160	BC060740	Ttyh2	Mus musc	1813.702	3647.066	4298.663
chr15	68070	AK020883	Pdzd2	Mus musc	1078.034	2595.364	2528.044
chr2	71586	AK156450	Ifih1	Mus musc	20.0778	40.3661	61.0869
chr1	20215	AY651760	Sag	Mus musc	11.961	24.0405	30.2407
chr2	24136	AK158309	Zeb2	Mus musc	437.5855	879.4495	1037.174
chr13	66129	BC140305	1110018J1	Synthetic	662.0515	2120.679	2171.458
chr12	24000	BC098500	Ptpn21	Mus musc	1453.494	3557.014	4338.314
chr9	12045	BC100462	Bcl2a1b	Mus musc	25.6081	61.0852	51.4404
chr3	14707	BC087872	Gng5	Mus musc	2392.108	4855.397	4804.84
chr15	223697	AK171058	Unc84b	Mus musc	992.7826	2137.098	1992.881
chr14	65107	BC052378	Lrp10	Mus musc	1471.262	2986.086	2953.168
chr11	83796	BC005732	Smarcd2	Mus musc	2546.573	5111.003	5433.298
chr19	N/A	AK218226	N/A	Mus musc	447.3075	897.7028	973.2355
chr18	225115	BC023697	Svil	Mus musc	1444.67	2899.282	3746.9
chrX	170743	AF334943	Tlr7	alt '-'	58.7729	117.9475	170.2155
chr15	68607	BC055431	Serhl	Mus musc	2353.921	7192.822	4722.473
chr13	13025	AK150917	Ctla2b	Mus musc	296.9175	747.7167	595.6395
chr17	78785	AK018895	Clip4	Mus musc	1945.025	3901.597	4320.062
chr11	217353	BC058195	Tmc6	Mus musc	549.2132	1236.93	1101.621
chr13	26421	NM_01195	Prl2c4	Mus musc	31.5941	95.9115	126.5527
chr2	13661	AF035527	Ehf	Mus musc	5.345	11.3744	10.7196
chr11	76408	AF534127	Abcc3	Mus musc	97.1755	312.8675	391.2455
chr13	18081	BC118937	Ninj1	Mus musc	810.7055	2533.916	1625.111
chr11	78887	BC106124	Sfi1	Mus musc	86.6629	493.2373	173.7047
chr8	244495	XM_14637	Gm4975	PREDICTI	24.5912	60.203	49.2844
chr5	170756	BC043689	Slc24a6	Mus musc	1665.196	3744.978	3336.972
chrX	13595	BC004620	Ebp	Mus musc	1519.034	3217.364	3058.674
chr2	18796	BC156752	Plcb2	Synthetic	87.1094	216.9535	294.1855
chr17	14960	BC019721	H2-Aa	Mus musc	377.9575	757.202	812.5335
chr9	75600	NM_00110	Calml4	Mus musc	724.8555	1552.063	1639.246

chr7	319236	AK050485	9230105E	Mus musc	651.6035	1333.776	1304.903
chr13	69386	BC028550	Hist1h4h	Mus musc	117.3298	234.9615	238.7115
chr19	66395	AK009866	Ahnak	Mus musc	104.2295	208.7212	239.6068
chr16	224139	AK155415	Golgb1	Mus musc	1016.849	2035.474	2096.326
chr13	319179	BC069889	Hist1h2be	Mus musc	51.5212	216.0975	224.5175
chr7	54200	AF478566	Sult2b1	Mus musc	116.9775	234.0915	260.2295
chr12	30955	BC051246	Pik3cg	Mus musc	323.0981	646.4415	685.9195
chr9	319899	AK010755	Dock6	Mus musc	295.7495	1101.598	909.2415
chr8	67528	AK088191	Nudt7	Mus musc	18.7578	51.6925	37.5256
chr8	272465	BC042836	Fam70b	Mus musc	94.6153	189.2475	313.0976

For Review Only

before and after the transition from scarless to normal healing.

a	RATIO			At least a two-fold loss in DNA methylation at E15 vs. E18, E19, and adults (the higher value is at least 2.0 but the lower one does)	minimum fold-change	
	Adults	E15/E18	E15/E19			E15/Adults
<i>(ts)</i>						
	6.2621	922.7332	965.3541	1127.40522	-	922.73
	14.0301	628.5682	843.4616	1034.76907	-	628.57
	6.7678	603.3855	1183.408	1236.95015	-	603.39
	10.3067	787.6777	759.3072	580.691346	-	580.69
	5.3267	551.4262	539.2408	610.205474	-	539.24
	5.4691	507.3189	512.6655	552.345011	-	507.32
	18.5192	493.9614	418.0825	492.491765	-	418.08
	16.0509	920.8725	408.3186	1536.33662	-	408.32
	13.5894	656.8041	766.2631	370.252807	-	370.25
	7.6711	359.3053	429.4902	504.318259	-	359.31
	8.5936	329.625	312.5071	660.899379	-	312.51
	8.428	310.2856	383.6798	1751.05571	-	310.29
	19.4062	415.3336	286.4651	276.112851	-	276.11
	12.7413	373.7208	330.701	271.811628	-	271.81
	19.2205	469.6687	604.9756	270.648708	-	270.65
	7.1317	299.1216	256.9106	267.861842	-	256.91
	21.7039	248.9472	363.1893	238.087233	-	238.09
	15.4694	281.5153	231.7768	677.686627	-	231.78
	21.2897	250.0348	231.7027	671.763317	-	231.70
	15.6571	304.2115	208.9424	286.825862	-	208.94
	12.3665	328.9643	206.6061	296.340557	-	206.61
	8.2534	175.1104	705.8473	1739.46634	-	175.11
	18.4838	208.3941	169.6663	223.790427	-	169.67
	55.6797	170.4524	233.0562	166.846172	-	166.85
	12.0693	166.628	169.8426	183.087428	-	166.63
	31.3725	165.8823	204.5352	193.826807	+	165.88
	15.6453	177.7723	161.7417	930.687267	-	161.74
	17.6609	265.5116	159.6583	446.334417	-	159.66
	10.8994	181.5207	158.0594	247.984247	-	158.06
	11.4401	148.3597	189.5716	997.678123	-	148.36
	9.2206	249.9148	145.9782	561.40159	-	145.98
	14.4987	137.3134	276.3209	279.288316	-	137.31
	19.4876	218.5036	136.4594	137.797548	-	136.46
	23.9426	135.313	195.0516	268.328118	+	135.31
	29.1953	134.5494	187.1318	195.018291	-	134.55
	25.5722	128.758	219.1765	361.022959	-	128.76
	32.3809	171.2261	128.3537	140.995321	+	128.35
	9.3055	123.7237	197.7995	350.365859	-	123.72
	21.4202	125.7566	177.7201	120.386434	-	120.39
	22.7223	182.8832	146.7164	118.018576	-	118.02
	10.4344	117.501	130.9644	204.017548	-	117.50
	30.8697	115.9752	154.6852	268.934311	-	115.98
	10.9044	203.4196	115.3218	627.501366	-	115.32
	19.0688	114.9852	181.3157	149.486009	-	114.99
	15.3787	112.7856	201.0727	304.211637	-	112.79
	14.5799	199.0245	108.7269	571.882763	+	108.73

24.507	107.4459	115.2711	147.671865	-	107.45
110.8736	207.7056	106.9647	105.438426	-	105.44
6.1489	104.3507	155.711	340.880613	-	104.35
83.8595	100.3115	169.2669	110.802086	-	100.31
6.6103	850.9082	1168.775	1820.02419	-	850.91
10.1268	571.9967	620.2574	646.086098	-	572.00
39.454	563.3464	621.3568	497.726403	-	497.73
6.1924	525.398	487.6128	621.477214	-	487.61
10.1836	467.7964	652.733	1072.09705	-	467.80
6.4714	520.7803	531.1784	463.71612	-	463.72
7.9831	726.0903	444.5536	808.266688	-	444.55
24.5031	558.3472	466.7966	389.7887	-	389.79
17.8638	578.5364	389.4737	807.281726	+	389.47
6.4714	435.7632	336.7559	432.645548	-	336.76
10.8901	415.3997	313.2174	1118.90644	-	313.22
43.8928	403.7537	312.2728	598.150255	-	312.27
10.0863	338.2841	273.2691	510.748193	-	273.27
9.9377	297.6605	283.3337	268.336889	-	268.34
26.6108	396.6214	262.8275	705.984243	-	262.83
7.0414	341.5795	261.8646	327.923921	-	261.86
8.8778	251.8385	239.6723	286.903185	+	239.67
36.1576	343.83	327.0077	239.213535	-	239.21
7.5079	306.4923	239.082	241.992501	-	239.08
16.4611	238.9647	337.8515	537.070032	-	238.96
15.9232	234.4362	341.826	293.460473	-	234.44
35.8976	232.82	432.2535	391.189093	-	232.82
9.0301	230.3747	742.0763	644.950056	-	230.37
7.8723	224.3328	294.9492	277.658308	-	224.33
11.7831	241.4095	270.1614	221.944098	-	221.94
7.2706	214.9455	765.0755	982.414808	-	214.95
17.3734	211.5632	256.9213	802.539371	-	211.56
12.4595	206.5855	364.6001	555.838533	-	206.59
10.0063	202.1468	363.2488	1199.74137	+	202.15
13.7429	193.7862	214.6386	224.75447	+	193.79
6.3077	501.1124	190.1845	498.784708	-	190.18
32.3618	221.5384	224.5048	185.168041	-	185.17
69.9336	184.7904	366.5544	189.078433	+	184.79
63.2952	298.4204	193.0941	182.447223	-	182.45
6.3872	182.3826	209.2844	188.441805	+	182.38
9.6259	195.9197	223.5573	180.556987	-	180.56
30.8304	196.6021	177.9433	179.889508	-	177.94
48.4299	225.825	177.4139	438.950968	-	177.41
12.6221	246.1689	173.0649	442.06487	-	173.06
12.509	253.4406	237.7742	170.941202	-	170.94
9.8046	237.9054	167.9417	422.178518	-	167.94
56.5974	247.0482	168.6667	163.037905	-	163.04
12.7641	247.9806	160.6133	173.835703	-	160.61
28.0979	159.2037	300.0851	201.745977	-	159.20
8.2794	360.9135	157.789	800.597326	-	157.79
7.9646	241.3642	156.8747	498.571567	-	156.87
33.4975	169.1284	153.8362	410.803245	-	153.84
17.0728	235.2341	144.431	284.809744	-	144.43
6.8428	298.6626	140.6975	487.144605	-	140.70



70.8296	139.3965	151.3501	194.663214	-	139.40
18.7919	179.6334	139.0629	749.661051	-	139.06
34.6313	150.8289	134.3576	174.79293	-	134.36
7.7522	198.3391	130.6818	299.34825	-	130.68
5.2999	214.7388	129.4636	399.940282	-	129.46
62.4704	193.1856	125.8522	142.974649	-	125.85
18.2957	146.5927	148.3072	125.031302	-	125.03
15.6451	211.2676	124.4512	214.528734	-	124.45
23.7009	250.0018	341.6517	123.190305	-	123.19
63.5526	121.3738	156.7866	207.515965	-	121.37
44.9941	120.915	191.5188	203.850449	-	120.91
13.8854	151.5796	118.5924	221.774691	-	118.59
50.6789	141.7279	166.0461	117.764227	-	117.76
9.0695	180.8544	116.6406	433.571895	-	116.64
191.9095	145.0251	200.2741	115.271894	-	115.27
16.6937	190.4659	112.7663	316.162594	-	112.77
10.2953	219.8282	111.8508	307.855186	-	111.85
27.085	190.8581	121.1003	110.639228	-	110.64
9.0474	112.5794	108.3418	189.225137	-	108.34
83.5395	221.631	121.8913	107.895754	-	107.90
26.5006	111.0105	123.7569	107.04684	-	107.05
7.4112	106.4077	131.9482	140.383703	-	106.41
43.8049	109.9965	104.97	146.770644	-	104.97
28.2169	118.9223	187.1516	104.374028	-	104.37
12.4103	231.3563	104.1371	354.583652	-	104.14
16.1274	116.7324	103.7298	148.077136	-	103.73
13.7898	163.6278	102.8311	298.39791	-	102.83
9.1872	101.0742	368.6605	461.383392	-	101.07
18.1957	101.0109	110.7923	277.138857	-	101.01
36.975	366.9215	100.7178	184.39355	-	100.72
22.68	124.2172	130.2279	99.2154982	-	99.22
4.9955	99.02496	102.9641	126.011771	-	99.02
10.776	124.6623	98.59593	148.409011	-	98.60
27.8564	98.49963	105.3171	127.804052	-	98.50
8.9648	98.22776	176.7094	241.853862	-	98.23
28.2116	100.4392	97.70887	262.257422	-	97.71
10.8258	103.7259	97.43908	343.673955	-	97.44
81.936	151.3128	125.22	97.1765951	-	97.18
15.4974	167.3498	97.0287	510.378309	-	97.03
13.2088	157.9961	187.5854	96.4114833	-	96.41
9.3701	217.603	96.30107	961.69726	-	96.30
11.0559	95.4867	134.6321	180.577384	-	95.49
7.1329	100.5367	132.3077	95.2060873	-	95.21
6.2893	201.167	94.60962	238.718061	-	94.61
65.7819	93.78547	121.3866	103.696537	-	93.79
6.4002	93.7107	130.2593	207.225946	-	93.71
10.0476	127.1503	93.59313	287.41817	-	93.59
19.3325	93.31372	148.2718	112.90128	-	93.31
65.4879	141.6919	157.839	93.1433975	-	93.14
24.2551	135.6306	92.86101	185.923022	-	92.86
54.8425	92.44341	126.3051	190.005188	-	92.44
56.4968	120.7273	91.5409	506.056692	-	91.54
21.5223	149.9531	176.1136	91.2149491	-	91.21

61.4346	91.09759	160.5225	128.884171	-	91.10
54.8265	90.8445	93.36343	250.078579	-	90.84
8.1231	91.03312	90.46496	90.8257931	-	90.46
10.0476	89.96505	90.0939	130.227089	-	89.97
113.6455	121.1969	89.82309	107.785258	-	89.82
33.2652	89.24271	150.3304	203.604412	-	89.24
12.2615	109.8058	89.10095	99.5672145	-	89.10
7.0275	98.39876	88.96606	176.064817	-	88.97
77.0206	88.33978	110.4604	168.01346	-	88.34
11.3777	88.04669	288.6029	449.030604	-	88.05
11.1126	111.8803	111.0363	87.5452639	-	87.55
14.3081	202.1621	87.04983	245.384747	-	87.05
85.5206	190.7152	228.6463	86.5422308	-	86.54
12.5747	88.39855	119.5414	86.4920435	-	86.49
10.1632	117.4989	86.23926	140.227045	-	86.24
11.9905	88.064	95.49625	86.0075476	-	86.01
8.7873	84.26886	100.0256	116.081254	-	84.27
21.152	194.9243	83.79919	223.970286	-	83.80
5.778	91.95971	83.48463	141.663794	-	83.48
14.7222	82.8518	84.63223	129.527754	-	82.85
22.9227	208.4547	82.82421	342.789353	-	82.82
76.258	316.5708	143.4984	82.7709578	-	82.77
48.7441	96.47153	81.59442	112.749184	-	81.59
21.5001	104.519	81.33137	678.434775	-	81.33
57.8402	114.329	150.6337	80.5955045	-	80.60
16.4018	182.4558	183.4932	80.4741797	-	80.47
61.4967	103.6275	79.58124	81.788413	-	79.58
15.3261	79.44141	113.2492	188.804034	-	79.44
11.2952	84.85111	108.9016	78.7828015	-	78.78
28.3123	77.94555	97.74644	94.0374855	-	77.95
12.7187	77.75583	122.8088	137.975068	-	77.76
32.1599	90.77398	78.42291	77.3116676	-	77.31
18.6842	130.6171	77.0453	77.3026086	-	77.05
9.432	76.45218	106.5025	248.578191	-	76.45
28.1866	116.6516	76.11909	450.097972	-	76.12
49.7831	111.6506	76.11343	165.306771	-	76.11
5.3648	77.68911	75.95524	99.470381	-	75.96
31.7344	74.91586	106.5083	86.5447432	-	74.92
36.2582	108.358	74.16698	207.252194	-	74.17
23.7379	73.42595	83.0731	136.322981	-	73.43
19.7227	72.71052	75.95123	84.3459313	-	72.71
39.3656	109.3739	72.69911	239.354906	-	72.70
14.2137	72.48436	139.436	118.791905	-	72.48
20.4608	98.36594	108.1409	72.4177696	-	72.42
17.4616	159.4065	72.02245	574.598634	-	72.02
9.0816	71.82291	121.5113	262.990828	-	71.82
8.354	134.9977	71.37479	99.9716902	-	71.37
29.169	71.1591	122.7085	116.107974	-	71.16
35.0109	203.1519	100.5689	71.0160407	-	71.02
14.9007	103.7875	79.93279	70.7999624	-	70.80
26.7785	70.57825	124.7389	70.4725619	-	70.47
13.5636	84.59108	70.12434	89.7487688	-	70.12
15.9098	159.8521	70.10691	207.705892	-	70.11



11.562	147.6153	69.99726	239.989145	-	70.00
24.7366	86.53612	95.58793	69.9023916	-	69.90
9.903	114.3609	69.84597	95.3376654	-	69.85
13.3599	126.6257	69.59418	202.679474	-	69.59
44.5408	97.10746	68.39859	175.286288	-	68.40
5.8924	68.00175	118.4973	147.305207	-	68.00
9.8697	99.65679	67.99473	70.572682	-	67.99
43.712	67.91805	68.85386	78.5725087	-	67.92
96.7577	200.1447	167.8812	67.6865562	-	67.69
52.2697	92.49666	67.27797	364.955137	-	67.28
29.7608	67.07011	142.6028	295.586678	-	67.07
91.1474	95.00092	170.0685	67.0643299	-	67.06
9.096	66.88767	86.10054	127.202759	-	66.89
54.1413	103.5965	106.7504	66.7718415	-	66.77
63.1423	91.11774	66.2192	76.3387064	-	66.22
44.3022	140.248	163.2164	65.9243785	-	65.92
24.07	151.3933	65.77173	186.050914	+	65.77
116.5095	170.4156	142.9942	65.1197894	-	65.12
9.4377	88.57126	65.01436	586.177723	-	65.01
23.6541	64.99266	116.6193	145.752301	-	64.99
23.6771	64.84332	81.3956	80.1532071	-	64.84
10.8681	92.74384	64.61083	75.8908641	-	64.61
9.8247	225.73	64.49511	256.556587	-	64.50
15.4947	120.0376	64.11869	274.666273	-	64.12
43.2737	71.37	111.0765	64.0574645	-	64.06
15.4421	150.9012	63.91601	108.309666	-	63.92
70.1816	88.22614	63.85888	197.579689	-	63.86
18.3889	63.70166	69.28937	88.215282	-	63.70
31.8856	63.55641	83.49248	84.3078851	-	63.56
14.0381	63.88041	63.44321	96.938439	-	63.44
8.6023	63.27824	76.86671	107.372854	-	63.28
46.2456	152.2693	63.11954	135.719928	-	63.12
10.6532	63.10403	66.57496	99.3918729	-	63.10
12.4536	78.82435	86.60799	62.919726	-	62.92
166.7755	135.3851	100.0916	62.8962497	-	62.90
30.3241	63.01332	62.82691	118.432188	-	62.83
31.3725	62.68696	85.90974	67.6299785	+	62.69
29.6176	62.43813	63.87017	69.4936626	-	62.44
13.6109	62.08953	156.3232	235.730297	-	62.09
42.9357	93.95886	61.60711	108.92594	-	61.61
19.8087	81.81137	61.39555	128.086765	-	61.40
15.7494	61.338	73.79629	493.322374	-	61.34
41.6051	70.6458	61.03763	168.879659	+	61.04
45.1273	79.98393	108.2517	60.9486386	-	60.95
74.6075	85.15544	60.80778	117.415271	-	60.81
91.1815	93.62129	60.73407	124.789541	-	60.73
35.4348	85.56807	122.3519	60.4159611	-	60.42
130.4475	93.75556	60.28198	81.9857606	-	60.28
39.4696	87.37729	60.25719	244.774447	+	60.26
70.6636	60.23629	76.74167	139.067915	-	60.24
9.6404	66.18895	69.596	59.8717377	-	59.87
13.3576	59.38018	122.9264	394.857991	-	59.38
91.4975	61.30702	59.07902	87.0593568	-	59.08

6.4394	77.38005	59.03473	100.90746	-	59.03
25.4987	109.6035	58.97711	233.888532	-	58.98
14.3165	189.383	58.93861	240.81733	-	58.94
83.8355	171.3187	198.095	58.6358679	-	58.64
10.2886	58.58187	115.3836	136.032065	-	58.58
13.4406	58.21292	136.181	352.326198	-	58.21
11.0559	83.68801	58.10506	121.081504	-	58.11
32.6398	264.6659	58.09531	138.759107	-	58.10
22.0144	84.59179	57.99843	132.039801	-	58.00
23.7433	90.69407	57.9064	235.08463	-	57.91
32.0024	108.5995	57.5912	200.844859	-	57.59
9.9469	62.45836	57.52412	362.900069	-	57.52
11.7929	64.86628	57.13583	119.32735	-	57.14
23.6088	75.48923	56.99947	117.569021	-	57.00
45.7482	56.91736	62.30877	164.721585	-	56.92
33.5138	64.01378	56.72291	100.163234	-	56.72
9.9377	74.29503	56.53417	64.5634201	-	56.53
33.6666	129.3636	56.35707	173.523492	-	56.36
51.9704	115.029	56.31807	169.431359	-	56.32
92.0695	72.23592	56.24345	65.499514	-	56.24
71.6634	282.7864	139.8142	55.6604278	-	55.66
5.0307	55.52098	71.18211	87.2772179	-	55.52
10.8908	70.5615	66.04362	54.9043505	-	54.90
8.5225	54.6862	66.83402	63.2980346	-	54.69
362.0755	63.38086	58.31793	54.6543284	-	54.65
35.1082	54.45656	74.72549	96.9440045	-	54.46
34.8086	57.33197	54.33851	92.8635768	-	54.34
53.3942	65.68269	54.09567	259.990851	-	54.10
400.1315	78.5455	81.1565	54.0469658	-	54.05
63.5122	54.15764	53.93285	60.9685934	-	53.93
42.9304	53.86087	62.99346	75.0747978	-	53.86
102.9882	105.9014	53.84176	79.8253732	-	53.84
33.6261	96.27952	53.75824	72.0276065	-	53.76
6.5363	54.46292	55.15755	53.4605358	-	53.46
9.7293	113.8558	53.39051	88.7109042	-	53.39
7.3986	52.98265	53.92521	81.2850404	-	52.98
16.3937	82.61536	52.4652	68.0367153	-	52.47
162.3767	70.26812	74.262	51.7711069	-	51.77
13.0827	51.39038	58.06414	54.6577924	-	51.39
28.1872	63.9088	51.06886	89.5848293	-	51.07
618.9815	61.73456	50.99169	53.6023114	-	50.99
6.935	67.15254	50.97866	67.3645999	-	50.98
14.9863	102.0208	50.51805	194.140695	+	50.52
5.321	50.45713	58.4853	91.8365345	-	50.46
37.2156	150.9604	50.34743	182.859755	-	50.35
55.074	61.45174	50.14579	211.915014	-	50.15
13.4121	50.11816	58.78872	182.652642	-	50.12
23.3588	52.2373	73.1878	49.9450914	-	49.95
10.3708	49.7517	60.58641	58.8612643	-	49.75
15.588	54.42015	63.6077	49.6624006	-	49.66
17.2201	72.6001	49.60679	1180.85142	-	49.61
25.4258	49.36069	50.29936	87.4055723	-	49.36
10.9367	60.47401	66.88545	49.3144641	-	49.31

78.572	70.12639	48.72122	79.6097656	-	48.72
19.645	77.22599	54.16444	48.6388139	-	48.64
12.5743	52.22442	52.59825	48.6189688	-	48.62
100.8512	48.39661	51.47884	104.605247	-	48.40
30.0602	48.34922	62.30939	51.8965775	-	48.35
8.8887	54.13692	48.29011	57.3606377	-	48.29
229.7455	62.7955	53.47885	48.2665641	-	48.27
75.1641	75.53996	48.00602	125.369285	-	48.01
11.3528	52.34752	47.87263	58.8932686	+	47.87
8.5264	49.26535	68.715	47.8306788	-	47.83
17.5282	47.81155	54.93909	195.852729	-	47.81
38.1872	125.9947	89.15712	47.6970687	-	47.70
16.3725	61.55212	81.20569	47.6183539	-	47.62
5.8413	64.23028	49.92308	47.2779176	-	47.28
115.5095	61.11488	47.19653	62.0577225	-	47.20
38.1647	52.36727	46.94557	373.970279	-	46.95
9.5788	123.6651	46.89254	267.901564	-	46.89
89.4084	46.54185	64.43073	114.433426	-	46.54
38.2164	86.40106	46.40113	107.994774	+	46.40
50.1679	93.14948	46.28144	56.1367468	-	46.28
5.568	46.09555	51.75854	58.8902119	-	46.10
9.0064	46.02987	47.08732	62.4932826	-	46.03
94.0745	69.57654	46.02455	52.7324567	-	46.02
173.2278	61.29861	51.71599	45.9366078	-	45.94
13.8125	45.78593	80.42359	222.506534	-	45.79
74.2675	69.04855	45.45608	52.9134076	-	45.46
7.768	45.28003	50.01752	85.8018151	-	45.28
119.41	49.98	45.20784	88.1969307	-	45.21
9.1464	58.39724	45.02009	55.2463811	-	45.02
27.1726	81.03179	60.67112	44.8724634	-	44.87
7.5217	46.47432	44.86589	51.9807756	-	44.87
21.5119	68.80587	44.7184	53.6037031	-	44.72
48.7536	84.75294	44.59539	84.2754074	-	44.60
606.0851	46.67682	44.49294	45.1713885	-	44.49
64.3181	75.07244	44.2007	58.8848162	-	44.20
11.3418	44.10704	45.83961	83.3518048	-	44.11
20.0381	50.90458	43.90677	49.3178545	-	43.91
5.6957	43.85927	59.1674	80.7050055	-	43.86
44.8717	51.13842	43.77967	56.2316716	+	43.78
7.0477	43.5984	78.20652	55.9608809	-	43.60
14.5471	43.29553	43.32224	56.4891628	-	43.30
16.3725	43.2057	75.79779	115.467736	-	43.21
10.9751	58.66989	76.8864	43.1421582	-	43.14
27.5071	43.10551	49.21345	54.4561041	-	43.11
7.2134	46.71391	42.5891	48.3704633	-	42.59
57.7219	45.6958	42.57001	137.313644	-	42.57
182.5235	55.91919	73.90638	42.3036239	-	42.30
272.1664	63.38497	42.26965	55.9372494	-	42.27
30.8362	57.19086	42.06257	69.0373554	-	42.06
14.5799	52.08478	43.66795	41.861021	-	41.86
37.4835	47.68283	41.84828	201.263292	-	41.85
25.9085	80.52849	41.63687	406.874867	-	41.64
8.9886	60.07942	41.48257	70.8479407	-	41.48

14.8	54.60883	68.71365	41.4798311	-	41.48
12.9496	53.47164	41.45224	291.933612	+	41.45
14.7174	49.25136	65.77457	41.4269776	-	41.43
14.3604	44.91769	41.36396	67.375289	-	41.36
27.9586	91.28584	41.18242	524.286463	-	41.18
57.3351	58.58389	50.23074	40.9270116	-	40.93
54.7586	42.36611	40.86004	196.71784	-	40.86
37.3022	58.47619	40.53082	124.1903	-	40.53
17.279	40.48571	43.33404	81.7167371	-	40.49
10.5895	40.286	41.30351	57.1540394	-	40.29
9.5145	42.14032	49.0046	40.1755846	-	40.18
18.92	71.72398	40.03011	57.305259	-	40.03
22.8119	58.60208	49.47046	39.951933	-	39.95
204.2549	97.50198	39.77294	49.6809012	-	39.77
7.0155	219.672	39.44262	461.074692	-	39.44
116.6095	42.56852	38.88194	71.5821181	-	38.88
6.9609	44.53823	38.75339	142.4476	-	38.75
5.1672	38.69642	45.84192	47.3288241	-	38.70
111.9655	51.95757	38.66466	75.349396	+	38.66
139.6228	44.82991	42.32178	38.5446324	-	38.54
46.3929	54.02497	38.42249	81.413074	-	38.42
26.4267	49.28367	38.31976	64.470649	-	38.32
29.8628	38.3628	38.30276	96.8582819	-	38.30
47.1859	61.87386	51.84206	38.2940539	-	38.29
6.889	38.2827	39.91215	47.6408187	-	38.28
8.8694	38.1428	40.23289	47.938891	-	38.14
77.107	41.66696	38.09737	43.4198905	-	38.10
14.2721	58.69418	38.00363	78.4950988	-	38.00
5.6416	37.87786	78.47911	214.739453	-	37.88
13.7342	37.84233	56.90223	62.8927422	-	37.84
779.1175	37.80501	39.96697	41.3183576	-	37.81
14.2894	47.18575	51.25696	37.6996585	-	37.70
36.2983	51.61014	65.48675	37.633374	-	37.63
19.6792	37.57592	57.29467	47.989151	-	37.58
82.8695	37.1072	39.62118	61.1430683	-	37.11
10.163	86.36675	37.04042	67.7133032	-	37.04
9.5203	37.01436	40.96944	107.164848	-	37.01
8.9382	44.23389	41.8278	37.0021257	-	37.00
379.7826	48.76611	36.97751	52.6736017	-	36.98
83.8595	90.97406	43.78707	36.9714236	-	36.97
6.5302	52.31385	36.96568	49.7719365	-	36.97
15.6172	68.6546	36.948	57.754495	-	36.95
18.9148	63.19185	36.89187	46.8723804	-	36.89
45.8849	44.8918	36.83462	60.8488958	-	36.83
31.7649	103.0321	36.7263	74.685439	-	36.73
217.3534	52.21661	41.35313	36.6121952	-	36.61
12.6	36.49567	61.36189	189.829325	-	36.50
8.2639	53.80369	36.19126	250.433028	-	36.19
12.9958	36.19025	52.51026	162.71884	-	36.19
54.8005	69.27873	36.19023	44.9325371	-	36.19
7.159	36.15749	47.12027	37.6731806	-	36.16
16.2758	108.3242	35.65637	78.0521695	-	35.66
12.0907	51.57097	51.61563	35.493189	-	35.49

14.9217	97.76655	35.43	248.260734	-	35.43
16.2942	51.99077	40.65332	35.4221441	-	35.42
35.0811	88.57708	69.78701	35.3706383	+	35.37
80.8115	35.366	77.2159	37.384376	-	35.37
30.1455	35.3626	36.72096	38.8311191	-	35.36
14.7721	44.72591	67.06067	35.2815172	-	35.28
71.5096	42.21032	35.19601	119.891308	-	35.20
30.7412	68.09508	52.31885	35.0844307	-	35.08
355.3675	87.80724	34.92388	37.1932521	-	34.92
54.5551	103.9459	34.71284	67.8014246	-	34.71
49.9507	57.83525	34.70885	103.413195	+	34.71
8.4574	34.62361	50.24928	158.201989	-	34.62
18.2243	34.35401	47.21329	228.672679	-	34.35
51.0813	34.30588	46.29946	154.614777	-	34.31
8.0076	57.83827	34.3048	348.212011	-	34.30
11.4753	50.32744	34.30029	77.801783	-	34.30
14.1646	34.28845	56.57888	55.2547407	-	34.29
145.4371	40.93849	34.05419	39.6720273	-	34.05
21.6466	153.188	33.8952	81.2399037	-	33.90
9.1038	38.6798	33.87821	72.0002307	-	33.88
17.7491	48.33212	33.86806	37.7118558	-	33.87
18.5169	48.15608	33.74373	132.303404	-	33.74
39.9801	83.86922	62.40782	33.7368216	-	33.74
7.3669	36.01615	33.64636	36.9069079	-	33.65
26.0266	41.03071	33.5664	191.751343	-	33.57
16.5513	65.81773	33.50158	115.270202	-	33.50
71.3076	63.12338	33.46388	64.5485965	-	33.46
5.6331	33.37981	38.57627	44.1390176	-	33.38
10.7093	96.61705	33.25497	90.3432997	-	33.25
21.3055	33.23161	37.12558	175.061177	+	33.23
15.6475	119.5008	33.12199	288.864643	-	33.12
56.2304	53.15969	32.93629	58.8547263	+	32.94
201.7075	193.7261	109.2639	32.6570494	-	32.66
6.6306	46.35057	32.49643	60.1335475	-	32.50
12.668	48.49733	49.00464	32.2843385	-	32.28
14.6812	98.76336	32.26459	87.3567215	+	32.26
25.8037	32.26171	35.84548	38.3154121	-	32.26
56.5036	59.43854	32.222	123.811005	+	32.22
257.6646	49.2864	32.19132	58.8679248	-	32.19
17.9947	85.96432	41.22905	32.1711115	-	32.17
167.3288	34.42798	31.81171	41.6008679	-	31.81
8.1366	34.67907	31.75722	34.8683111	-	31.76
96.9635	49.1695	62.8693	31.7190644	-	31.72
12.9052	31.68323	49.25706	56.1185879	-	31.68
14.2734	48.57935	46.62777	31.5673561	-	31.57
55.3419	31.19059	32.50663	48.4173023	-	31.19
48.3172	37.89662	31.11434	171.727045	-	31.11
76.0825	66.90153	31.01417	40.9417251	-	31.01
419.3318	51.11823	31.00905	32.9878953	-	31.01
41.0251	96.1379	30.90619	57.2525893	-	30.91
31.6956	30.87849	67.66991	134.671787	-	30.88
453.5875	82.5273	36.63944	30.8739044	-	30.87
41.9901	50.71241	30.817	114.40024	-	30.82

9.3388	63.23635	30.79028	186.733724	-	30.79
12.3014	50.21071	30.73628	61.7154145	-	30.74
7.4922	30.65315	62.49244	51.366381	-	30.65
23.9255	36.34633	30.60579	50.7610499	-	30.61
269.4795	36.32358	30.47152	45.1059672	-	30.47
8.6479	82.4473	30.4159	107.82435	-	30.42
8.6085	45.41155	30.41241	39.8620433	-	30.41
16.4327	33.46283	36.20439	30.3983216	-	30.40
61.5265	67.95436	30.39523	58.8709499	+	30.40
26.0491	37.76316	30.376	56.8734236	-	30.38
7.9469	32.26186	30.34665	30.3103726	-	30.31
14.612	30.94732	30.28106	63.1073775	-	30.28
62.8442	30.27496	42.32813	50.6149096	-	30.27
30.9374	30.26402	38.04881	31.3919205	-	30.26
10.1319	58.25412	30.21668	60.1900038	-	30.22
133.1355	51.40346	43.90807	30.2068637	-	30.21
5.656	30.17158	36.80064	34.1830799	-	30.17
8.8157	30.153	36.16128	47.3143936	-	30.15
15.8866	49.52447	30.06586	42.4785857	-	30.07
60.3561	29.97477	35.51829	81.2700539	-	29.97
217.3395	29.95062	32.99403	67.0344024	-	29.95
14.786	44.48162	29.94704	301.263864	-	29.95
32.4761	32.8423	40.69098	29.8965547	-	29.90
157.9195	47.31135	40.66804	29.8345265	-	29.83
55.1841	40.85803	29.80686	177.697661	-	29.81
39.0819	29.6868	49.41524	40.8355147	+	29.69
136.232	65.49993	128.8465	29.5600204	-	29.56
7.4384	42.56095	29.53787	54.1389949	-	29.54
90.8855	32.83887	30.81604	29.5147136	-	29.51
13.8926	71.80757	29.48294	70.0796539	-	29.48
31.3825	44.51444	29.36573	109.914809	-	29.37
17.9768	45.20761	29.36009	355.437091	-	29.36
10.5094	55.4007	49.55785	29.3535026	-	29.35
34.302	31.79913	37.55741	29.1431812	-	29.14
8.0647	34.88985	29.08804	35.8385929	-	29.09
189.5875	55.48983	47.98407	29.0812501	-	29.08
7.6228	45.032	29.05166	87.309322	-	29.05
172.4194	32.39158	28.89213	79.1282976	-	28.89
57.1062	33.05776	28.83072	55.5446081	-	28.83
416.0835	147.6232	102.3887	28.8149458	-	28.81
36.0052	56.12177	28.7933	187.60061	-	28.79
52.7701	55.59503	28.71965	135.603889	+	28.72
207.1352	46.06425	34.26839	28.6370207	-	28.64
15.5333	43.28866	28.33147	33.5891021	-	28.33
218.2195	50.20269	36.70901	28.2512136	-	28.25
95.8675	114.5209	47.91898	28.2378439	-	28.24
117.6019	36.74998	28.23207	34.8817621	-	28.23
15.2762	41.22458	28.22502	50.3261937	-	28.23
48.6676	37.1119	40.89887	28.2116953	-	28.21
23.0274	28.21125	37.52416	81.7789894	-	28.21
43.4753	89.72095	35.28319	28.1902414	-	28.19
43.8632	28.05815	30.28934	45.4858743	-	28.06
23.4741	27.98364	31.76604	49.7463801	-	27.98

105.2562	46.67929	27.93071	71.3082317	-	27.93
36.613	59.08829	27.89924	179.082894	+	27.90
56.6692	30.37406	27.79455	44.0312127	-	27.79
9.6904	35.98589	27.77886	63.1996099	-	27.78
20.4509	35.38206	27.72422	215.240967	-	27.72
11.2952	36.31138	27.71741	181.33539	-	27.72
11.1473	48.43903	27.69873	444.275251	-	27.70
14.423	38.17222	27.69601	77.1630451	-	27.70
79.6833	37.14215	54.58833	27.6687273	-	27.67
40.7048	34.54842	27.62808	41.1921321	-	27.63
6.7872	36.22961	27.61312	34.8508221	-	27.61
18.5581	70.19302	27.54333	61.7958466	-	27.54
31.5093	59.26255	27.44591	77.1302917	-	27.45
501.1495	65.70625	37.18227	27.3006708	-	27.30
27.4081	42.08314	27.24528	173.576187	-	27.25
9.9377	32.54148	37.21983	27.0336899	-	27.03
67.2557	68.2934	79.65459	26.977819	-	26.98
8.9784	50.64663	26.97665	90.3193776	-	26.98
8.0917	26.89898	41.28065	44.8772817	-	26.90
16.1952	26.7582	33.10078	26.7286295	-	26.73
13.4592	47.85854	26.72573	125.412469	-	26.73
273.6115	29.08967	26.70621	33.3793598	-	26.71
8.5036	26.67149	42.2022	34.8169599	-	26.67
13.4562	35.16395	32.33213	26.6466982	-	26.65
17.1746	28.10161	32.02322	26.6435667	-	26.64
81.5755	36.03035	26.6247	27.8077057	+	26.62
50.4826	39.79449	36.36157	26.6148237	-	26.61
27.5601	26.5514	35.32856	125.256349	-	26.55
18.8449	35.29251	26.44353	44.731556	-	26.44
34.2556	50.10146	26.39785	76.5216081	-	26.40
40.4834	40.80192	26.36588	212.766472	-	26.37
316.1267	41.37059	26.36487	40.0841799	-	26.36
182.6775	26.33496	26.74322	51.3102747	-	26.33
10.5969	26.26562	34.44455	38.766007	-	26.27
37.6003	49.05022	26.12463	97.4076138	-	26.12
35.8515	35.55427	26.10299	282.195688	-	26.10
33.2267	62.71989	35.64095	26.1014636	-	26.10
24.6655	31.35686	36.48523	26.0442926	-	26.04
14.4459	97.10905	26.03309	170.583314	-	26.03
37.7144	33.1784	26.01654	66.1902615	-	26.02
74.4075	30.22585	25.93653	46.3490307	-	25.94
13.1198	29.33979	27.72365	25.8560801	-	25.86
65.6838	32.09208	25.84672	87.4671197	-	25.85
26.3227	59.75904	62.46187	25.8390477	-	25.84
30.2019	34.01197	25.81315	53.2932895	-	25.81
8.3613	28.22339	25.75518	40.7663282	-	25.76
9.4632	28.80897	31.20894	25.6647963	-	25.66
248.3439	45.13992	39.7645	25.5795222	-	25.58
17.6767	25.53562	59.48705	45.9539111	-	25.54
9.8411	36.31215	26.70878	25.4193535	-	25.42
42.1957	29.59533	25.3798	100.340497	-	25.38
7.5806	25.27507	61.21924	192.876224	+	25.28
71.3805	48.20785	25.25374	37.0629163	-	25.25

226.8688	32.21357	25.24177	31.5712936	-	25.24
31.1578	43.89532	25.23948	33.1140036	-	25.24
7.353	26.91459	31.31016	25.1997144	-	25.20
19.1891	25.08504	56.24194	34.2628836	-	25.09
8.3177	25.03442	57.29591	58.5509816	-	25.03
36.0629	30.35415	25.02493	157.783026	+	25.02
12.6315	35.13803	25.01397	37.614923	-	25.01
64.7352	26.04859	25.00039	37.792816	-	25.00
35.4068	34.02213	24.91218	165.453684	+	24.91
56.24	39.01292	24.90996	83.2809299	-	24.91
13.2698	24.87978	38.34142	26.151728	-	24.88
8.6624	36.55997	24.82954	46.71247	-	24.83
31.3737	42.5137	24.68441	157.66223	-	24.68
7.5568	27.61501	24.63535	69.3123412	-	24.64
15.0374	51.78603	24.58097	92.0821086	-	24.58
139.6975	45.15564	47.97314	24.5466175	-	24.55
51.2156	38.49713	27.43317	24.5418876	-	24.54
9.5601	42.06829	24.47723	38.5545653	-	24.48
31.2684	27.80785	24.37962	27.4276586	-	24.38
10.4588	24.26539	37.00236	62.0355873	-	24.27
5.3414	24.25625	27.85843	26.4105852	-	24.26
56.062	29.29028	24.21935	139.76989	-	24.22
10.3563	24.19134	24.20349	98.6660777	-	24.19
36.2082	24.15456	28.29047	24.5901785	-	24.15
31.9695	24.1142	24.19666	75.8513208	+	24.11
10.9596	35.84256	24.05051	54.2694533	-	24.05
16.6572	38.7984	24.01239	37.1982206	-	24.01
346.0592	25.14189	23.99073	35.2906656	-	23.99
7.7938	23.92695	52.52817	63.5314609	-	23.93
130.5275	55.2693	45.41101	23.9158093	-	23.92
138.8195	38.12149	38.00992	23.913067	-	23.91
47.4189	25.12065	40.44843	23.8982241	-	23.90
13.5063	32.09947	40.8915	23.8725262	-	23.87
20.9182	41.26123	23.81724	67.0396831	-	23.82
4.6392	23.75791	36.08866	51.3371918	-	23.76
11.6542	40.91521	23.69583	87.106408	-	23.70
37.7832	36.87599	23.68386	99.1652772	-	23.68
68.9266	39.78382	23.63251	75.6186654	-	23.63
222.8655	23.62095	33.99498	29.3112101	-	23.62
34.1664	25.90252	23.52899	56.9696398	-	23.53
87.7615	34.78292	23.48494	120.131191	-	23.48
121.4592	45.85319	35.8226	23.4554608	-	23.46
18.3922	23.37869	26.43611	50.468541	-	23.38
58.1707	31.31693	23.36727	31.3510118	-	23.37
20.8214	29.64777	23.34874	48.8735244	-	23.35
7.7407	23.94526	23.27928	32.9799114	-	23.28
20.3337	28.82383	23.25754	99.8254376	-	23.26
8.0166	30.01353	23.25137	24.5133348	-	23.25
40.0646	64.23929	23.24456	26.2106598	-	23.24
6.736	34.20426	23.20938	2439.68463	-	23.21
25.5745	24.51898	23.19543	79.3380711	-	23.20
18.6825	35.41118	23.13171	62.8839556	-	23.13
124.4532	25.45128	23.01358	25.744872	-	23.01



31.9796	30.80973	23.01086	44.636806	-	23.01
39.4893	22.9667	23.28041	108.661625	-	22.97
8.5527	22.85977	30.60389	29.090638	-	22.86
190.8955	53.08652	22.851	43.5351671	-	22.85
11.1823	22.81928	23.50159	45.6801821	-	22.82
477.8459	22.91897	22.79643	23.5053466	-	22.80
29.4295	35.58057	53.68701	22.768569	-	22.77
30.1672	27.07068	36.173	22.711604	-	22.71
5.2612	56.00721	22.62084	107.387953	-	22.62
30.0602	37.05048	33.92556	22.5764865	-	22.58
18.8544	46.06863	22.56848	320.590923	-	22.57
72.5411	22.49421	32.51593	153.163896	-	22.49
11.1664	22.44979	30.05304	25.4453987	-	22.45
14.4321	88.90123	22.38188	124.091262	-	22.38
40.5311	37.48283	22.35933	76.544567	-	22.36
29.7036	45.56691	22.27648	27.1751404	-	22.28
11.5779	32.64893	22.25007	1068.48339	-	22.25
147.7292	26.83832	22.2279	96.9446629	-	22.23
1162.88	88.92103	166.1704	22.1138395	-	22.11
13.526	38.61872	21.97032	25.5361526	-	21.97
90.0175	22.81816	28.32249	21.9329841	-	21.93
19.1194	25.24496	21.91114	22.7036152	-	21.91
82.8364	25.4631	21.85527	169.956509	-	21.86
12.3934	48.65647	21.80789	209.784539	-	21.81
29.0429	39.71702	36.10931	21.775446	-	21.78
403.6615	45.26291	37.55628	21.7636448	-	21.76
39.0582	21.75931	25.11663	54.0472986	-	21.76
36.0736	26.30022	21.73095	22.8895536	-	21.73
22.0026	49.68032	21.62791	507.874956	-	21.63
63.789	47.67693	21.60893	51.3613962	-	21.61
75.8635	46.81402	26.17387	21.5337639	+	21.53
5.2701	92.34662	21.51502	124.071555	-	21.52
206.1294	67.10833	58.81463	21.4702682	-	21.47
9.6964	21.44712	41.95024	38.0396333	-	21.45
47.7556	21.79576	21.43792	28.4312939	-	21.44
65.9442	34.5168	21.35389	105.50219	-	21.35
129.5375	29.04503	21.33142	35.6471717	-	21.33
55.1342	48.21137	21.27715	85.2431612	-	21.28
24.7252	34.20038	36.78522	21.2162369	-	21.22
14.8066	21.03825	37.47995	30.331305	-	21.04
9.2152	37.18269	21.03658	269.224705	-	21.04
26.2535	27.62553	20.99989	327.077422	-	21.00
48.1648	36.80493	20.99185	30.8385584	-	20.99
41.6644	22.34023	20.92053	47.7553859	-	20.92
16.6202	30.34182	20.90723	76.2147327	-	20.91
41.9295	44.76487	20.89888	140.195364	-	20.90
35.1777	29.22816	20.86687	44.343803	-	20.87
28.6804	24.60581	20.80966	21.3224188	-	20.81
8.8524	88.21298	20.8003	153.335378	-	20.80
86.2475	25.60446	36.63943	20.7797269	-	20.78
56.5757	22.40844	20.77447	39.0262533	-	20.77
1103.29	70.90359	55.9814	20.7713759	-	20.77
18.3334	47.64509	20.73873	97.5631089	-	20.74

147.4057	31.79624	20.71289	41.7014892	-	20.71
8.2792	20.68057	23.25347	688.373454	-	20.68
12.0461	20.67487	21.65745	33.146454	-	20.67
18.7934	53.93204	20.63907	30.8708642	-	20.64
36.0971	26.09587	20.63851	30.8638506	-	20.64
25.3443	35.60883	20.61508	110.896237	-	20.62
51.0143	39.08949	20.78362	20.5803628	-	20.58
47.7716	20.56474	23.61152	58.6148569	-	20.56
55.1436	28.56517	20.55096	43.2746574	-	20.55
105.8408	31.74985	20.52591	92.7660741	-	20.53
96.0235	27.59695	20.50872	29.1706843	-	20.51
549.2635	31.62946	27.67558	20.4736588	-	20.47
14.6581	32.15451	20.41199	482.280391	-	20.41
93.1914	23.77526	20.4013	67.0711847	+	20.40
47.4944	20.84629	20.37362	103.256009	-	20.37
73.6539	24.45623	20.30375	25.7882543	-	20.30
471.0703	22.68503	22.4387	20.2339044	-	20.23
28.781	41.29782	20.18241	183.76045	-	20.18
261.4835	29.03934	20.17513	30.7102876	-	20.18
127.7422	29.15681	20.14336	65.2407231	-	20.14
39.6488	37.12236	20.13626	144.467462	-	20.14
67.7981	53.12215	20.12678	33.9889407	-	20.13
15.5721	50.58217	20.12013	36.0689631	-	20.12
72.9256	30.93786	20.11591	23.8673319	-	20.12
39.9187	29.62688	20.11295	22.5339377	-	20.11
5.3052	20.08987	22.67451	24.4606235	-	20.09
34.7036	32.18768	46.21783	20.0813604	-	20.08
10.5637	20.07136	22.20269	20.8363168	-	20.07
44.5083	33.00314	20.0683	101.083113	-	20.07
23.9111	54.14849	20.04544	255.030823	-	20.05
27.913	31.72959	20.03119	146.312707	-	20.03
23.2671	30.5549	19.98389	25.3001663	-	19.98
9.8354	34.70112	19.9794	137.735069	-	19.98
7.5254	23.89982	19.97607	48.4170277	-	19.98
7.3038	19.8954	24.53997	42.8244886	-	19.90
101.9812	21.66101	19.84995	35.9676303	-	19.85
273.963	19.90614	19.84163	39.9117965	-	19.84
17.0166	19.8078	19.94751	30.2485514	-	19.81
83.9792	28.29547	19.74903	20.3579017	-	19.75
7.6711	34.26909	19.70902	32.9923349	-	19.71
64.0941	19.6759	28.41662	150.444367	-	19.68
62.7667	28.96161	19.66161	21.0289771	-	19.66
115.1229	19.65552	20.41009	66.3579835	-	19.66
107.07	25.34537	19.64902	65.8027421	-	19.65
39.3949	19.64342	22.9384	46.5427403	-	19.64
8.5682	19.5921	21.22912	22.0559161	-	19.59
595.9585	22.09374	21.34426	19.5381415	-	19.54
34.2803	19.49946	30.79691	37.3728205	-	19.50
78.0723	87.73612	44.48591	19.4475826	-	19.45
40.3075	29.71906	19.44368	32.7538969	-	19.44
27.1616	19.41531	25.89469	66.1493248	-	19.42
266.2715	21.77731	19.36122	87.0082735	-	19.36
71.3449	47.64646	19.36077	34.8034337	-	19.36

1659.521	72.28877	106.0407	19.3568345	-	19.36
9.8697	19.35536	37.76879	65.2738786	-	19.36
41.2899	30.37902	19.31979	78.9411333	-	19.32
9.5716	45.60124	19.30576	156.944482	-	19.31
42.0011	37.58762	19.28322	49.511358	-	19.28
89.9975	25.92209	19.26657	36.8989639	-	19.27
324.5075	29.66248	24.75535	19.2260996	-	19.23
13.5219	25.12983	19.22109	773.926112	-	19.22
55.8415	33.9909	19.21413	72.4548499	-	19.21
7.8691	19.21169	19.26745	24.0429909	-	19.21
15.552	27.40853	19.15987	30.732909	-	19.16
26.677	21.89425	19.11979	261.748604	-	19.12
60.4729	42.99981	30.73033	19.1072282	-	19.11
159.3558	21.23342	19.09937	19.4737593	-	19.10
9.9818	20.67105	19.07967	25.704933	-	19.08
55.4545	25.31906	20.88464	19.0725856	-	19.07
23.0055	27.95381	19.008	244.915846	-	19.01
48.3004	26.31475	19.19166	18.9769753	-	18.98
60.2342	35.70642	18.94505	62.7101082	-	18.95
32.8628	23.56974	18.93943	36.123687	-	18.94
163.0615	18.85175	19.71136	46.8636772	-	18.85
17.6734	18.83435	60.10965	32.2441353	-	18.83
57.0308	18.74799	33.87041	37.482136	-	18.75
36.6408	19.65467	18.74745	20.556811	-	18.75
107.1518	20.28539	18.73726	42.9719473	-	18.74
6.9299	20.7249	19.27008	18.7211648	+	18.72
54.3111	36.18176	35.39577	18.7146035	-	18.71
40.2721	32.52547	18.71165	95.5938106	-	18.71
18.1208	18.70829	56.93215	28.7595194	-	18.71
6.663	73.21661	18.70376	89.170869	-	18.70
10.5714	19.98287	18.66637	45.5634069	-	18.67
31.7321	24.07222	18.65388	110.936922	-	18.65
55.8935	18.65302	19.40722	79.1766037	-	18.65
48.3055	18.61568	28.36217	50.2649077	-	18.62
345.5995	30.36055	18.57026	22.6030668	+	18.57
7.3836	18.52821	24.11352	27.2555664	-	18.53
74.8575	24.30178	18.52612	78.9030865	-	18.53
50.9045	18.47597	43.62326	29.6349733	-	18.48
84.1486	21.65461	18.47214	68.4820841	-	18.47
1939.782	25.56306	28.5507	18.4553885	-	18.46
96.2055	22.72133	18.43457	87.0766068	-	18.43
15.8045	18.4252	29.67328	86.2514474	-	18.43
9.6904	21.9929	18.403	87.7171634	-	18.40
68.6937	21.33784	18.38095	118.130351	-	18.38
12.0979	26.3065	24.41498	18.3727341	-	18.37
181.0573	18.34827	28.22762	24.9371376	-	18.35
20.6709	18.25725	47.19797	33.7456521	-	18.26
15.0011	24.41173	18.18851	121.09202	-	18.19
9.083	18.18068	31.32359	41.3503798	-	18.18
17.2128	27.16809	24.63152	18.165406	-	18.17
7.242	18.15407	28.33064	58.9869511	-	18.15
6.2526	20.93942	18.09315	21.3479832	-	18.09
24.5031	28.8373	18.01783	42.8651681	-	18.02

11.0559	20.16841	17.98233	23.5005291	-	17.98
76.5935	31.92804	31.76159	17.9369529	-	17.94
57.6492	31.51293	17.86847	39.6903947	-	17.87
283.7083	22.18893	19.48857	17.8511644	-	17.85
23.39	40.06108	17.83288	30.7173792	-	17.83
62.6141	29.5809	17.81468	53.9826748	-	17.81
28.9762	31.1399	18.72453	17.789793	-	17.79
11.6149	36.42142	17.77118	222.273244	-	17.77
22.0434	50.02931	47.15064	17.7395093	-	17.74
26.3619	17.70734	23.84942	24.3185051	-	17.71
33.0132	32.62018	17.69432	33.7356421	-	17.69
14.5799	17.62634	21.9209	21.4160248	-	17.63
19.3723	26.51873	17.61465	22.2799306	-	17.61
66.2299	18.96232	17.61016	120.865876	-	17.61
266.6203	29.04038	24.36415	17.5674902	-	17.57
11.3223	17.53005	20.86571	23.3456806	-	17.53
244.9384	25.64299	17.5145	25.5386232	+	17.51
75.6373	29.98172	21.06301	17.4993806	-	17.50
41.0846	17.47504	21.37211	89.050267	-	17.48
46.3929	20.84449	17.40645	29.8714502	-	17.41
8.0517	40.46574	17.36761	37.9785014	-	17.37
33.7938	27.94606	30.03887	17.362895	-	17.36
38.2859	25.8612	17.32261	34.2957956	-	17.32
6.0859	18.94823	17.32252	20.6282555	-	17.32
13.4576	17.31211	25.65318	35.4067516	-	17.31
34.5017	19.50198	17.27515	32.0641447	-	17.28
105.2375	17.19993	31.6634	59.3469638	-	17.20
74.7665	17.18778	25.58305	35.8198324	-	17.19
83.5915	20.73929	17.14194	41.7158862	-	17.14
84.9715	17.09555	22.50279	36.7515638	-	17.10
13.8218	20.35239	17.08621	108.380059	-	17.09
6.1503	25.49417	17.08212	24.5606718	-	17.08
320.4818	29.94999	17.0813	25.4580479	-	17.08
107.6075	65.7173	27.26278	17.0714448	-	17.07
11.9071	22.83254	17.03101	23.0087679	-	17.03
37.6353	17.16102	17.02154	75.535933	-	17.02
143.9195	22.81864	18.36534	16.988702	-	16.99
6.0423	18.26404	16.97182	17.7021167	-	16.97
25.9256	29.68116	16.96542	78.0355479	-	16.97
26.4337	16.96139	17.1439	40.610641	-	16.96
11.4795	36.54722	16.94122	109.80561	-	16.94
121.2495	33.58757	16.92643	29.2729413	-	16.93
18.5581	17.6842	16.91782	29.7840566	-	16.92
52.6008	21.19269	19.54228	16.9157028	-	16.92
139.4112	23.83675	16.9121	29.2295562	-	16.91
123.3855	27.92906	32.76682	16.8878636	-	16.89
7.0629	50.09698	16.81626	45.1623979	-	16.82
110.3855	46.74437	27.89884	16.7829244	-	16.78
49.2929	25.37902	33.17663	16.7442269	-	16.74
6.6766	18.38844	18.79407	16.742279	-	16.74
45.5549	23.30588	16.72431	35.0976404	-	16.72
34.7658	38.02877	27.26799	16.7006598	-	16.70
12.2215	19.39982	16.69211	21.875449	-	16.69



28.5888	46.71915	16.67443	20.5357168	-	16.67
15.1048	24.15675	16.65449	17.3342381	-	16.65
17.6547	23.24204	17.94262	16.6395068	-	16.64
43.9941	22.94806	16.63401	38.1104239	-	16.63
23.5373	35.0048	16.61016	75.8449567	-	16.61
20.7823	16.56311	19.01229	114.4286	-	16.56
9.0636	17.80988	16.53542	87.7422768	-	16.54
87.1375	34.82748	16.48195	25.7668799	-	16.48
111.9078	27.2885	16.45004	64.2011656	-	16.45
25.6528	37.07313	36.15291	16.4485553	-	16.45
14.2489	32.41461	16.44668	65.0198612	-	16.45
18.133	16.44149	16.40833	22.6588485	-	16.41
16.6857	16.31412	34.9855	25.1664899	-	16.31
103.9855	25.33685	16.29753	18.2785821	-	16.30
9.7494	18.00578	21.63209	16.2656676	-	16.27
10.3274	34.77765	16.24057	148.786481	-	16.24
172.9095	17.0293	16.19287	20.59196	-	16.19
104.0281	23.93549	21.81118	16.1831967	-	16.18
72.1714	17.9231	16.18023	81.2624322	-	16.18
8.0983	19.73235	16.13274	18.1573293	-	16.13
47.7751	16.12821	18.52206	21.4037752	-	16.13
10.8002	17.65888	16.12217	16.4008722	-	16.12
15.0535	16.09374	16.31308	61.6619059	-	16.09
30.3886	16.06624	26.1337	20.6977452	-	16.07
54.7586	28.60338	22.37853	16.0498534	-	16.05
14.6031	16.00186	19.78891	59.7059186	-	16.00
106.8475	17.68173	15.99938	111.935417	-	16.00
176.8991	20.92902	15.9378	44.3467349	-	15.94
6.3982	15.89353	25.17609	32.1333344	-	15.89
73.9755	27.73443	19.96764	15.8864421	-	15.89
12.5613	15.87835	34.24254	36.3434915	-	15.88
10.4279	25.14697	15.77944	206.650572	+	15.78
78.6199	16.87617	20.47508	15.7787265	-	15.78
13.3606	30.83914	15.7543	26.540088	-	15.75
27.666	23.27138	17.88928	15.7513735	-	15.75
156.1123	15.74805	16.11059	21.836175	-	15.75
92.9977	23.35866	15.71873	33.0067249	-	15.72
39.2995	29.41832	22.49059	15.6956577	-	15.70
93.6309	15.68119	25.56224	17.2954505	-	15.68
86.4941	40.92425	20.48472	15.6769502	-	15.68
10.9408	28.12277	15.67539	108.414878	-	15.68
16.4939	15.66825	18.27543	21.8640528	-	15.67
118.9595	102.6309	62.03604	15.6539453	-	15.65
224.7063	22.9802	29.39872	15.6215091	-	15.62
8.0381	15.60242	21.48577	23.3940235	-	15.60
14.5775	15.56459	25.80709	20.1887498	-	15.56
97.2715	17.81827	15.56107	43.5943786	-	15.56
40.4834	67.88142	15.52751	27.0042412	-	15.53
27.7436	16.4898	15.52633	52.7700911	-	15.53
23.505	21.7529	15.5119	78.2989789	-	15.51
9.0582	51.08888	15.50781	62.8117617	-	15.51
16.5766	15.48381	20.56908	130.342392	-	15.48
19.2026	17.89012	15.4837	32.1973847	-	15.48

8.6253	15.48222	16.96248	26.0505142	-	15.48
17.2186	15.99661	18.62525	15.4757936	-	15.48
34.8411	18.57086	15.43791	100.698414	-	15.44
7.5332	21.67487	15.42487	23.7300881	-	15.42
16.5062	17.92321	15.40956	30.523373	+	15.41
46.5801	17.70771	15.39272	38.7650842	-	15.39
1918.687	71.70004	87.46639	15.3738732	-	15.37
65.9479	15.36825	27.63716	53.12517	-	15.37
7.122	15.36503	41.45666	44.3624684	-	15.37
170.4725	27.79805	15.36008	31.5529461	-	15.36
223.8127	22.29441	19.42539	15.3192625	-	15.32
8.872	21.22843	15.30419	2279.59913	-	15.30
9.9576	17.13693	15.28358	18.4865329	-	15.28
34.2025	19.28146	15.23283	166.597398	-	15.23
17.8614	19.39562	19.86915	15.2047152	-	15.20
46.0928	32.26901	15.16532	60.2968099	-	15.17
50.9743	25.71115	15.15092	36.7257638	-	15.15
37.2276	16.21045	23.75863	15.090672	+	15.09
13.5823	16.32808	15.06706	139.6579	+	15.07
11.0265	35.90753	15.03904	18.9354283	-	15.04
45.8336	20.48632	14.97835	94.4994393	-	14.98
10.6762	24.83223	19.11221	14.9588337	-	14.96
6.7389	14.87793	19.58613	30.749143	-	14.88
34.2002	18.91988	14.8667	101.626096	-	14.87
11.6955	18.48878	16.47923	14.8473002	-	14.85
46.1541	28.80584	14.84447	24.4663096	-	14.84
186.6155	18.88634	14.83052	39.3179211	-	14.83
364.9318	77.71221	57.81387	14.8125425	-	14.81
288.1995	16.98915	15.85892	14.8035493	-	14.80
37.6132	39.19743	14.79784	74.3360177	-	14.80
8.7821	19.15281	14.78867	24.3527061	-	14.79
97.2995	17.48739	14.73057	61.3351209	-	14.73
38.7613	14.71675	20.06427	15.0021491	-	14.72
12.2454	14.66944	16.08423	14.809357	-	14.67
62.3784	23.62862	19.91276	14.664892	-	14.66
13.767	32.90112	14.65282	87.3816736	-	14.65
144.9718	14.64463	14.97453	36.9417597	-	14.64
8.5898	15.92287	15.13902	14.6428904	-	14.64
67.8482	20.19199	14.62443	30.6945431	-	14.62
206.5155	21.56086	14.60383	31.447672	-	14.60
74.3084	16.44204	14.59018	24.8816957	-	14.59
82.8255	31.40892	14.57396	100.396249	-	14.57
14.8337	16.65956	14.56054	30.4809656	-	14.56
154.5327	20.31388	24.95912	14.5584223	-	14.56
262.4978	15.70959	14.55614	25.796001	-	14.56
67.3758	24.60493	26.76535	14.4715091	-	14.47
94.8544	55.25778	92.95994	14.4701089	-	14.47
58.4478	16.03135	26.31461	14.4183391	-	14.42
76.0489	40.72273	14.40516	15.6842361	-	14.41
31.0705	24.43972	25.01158	14.3771198	-	14.38
54.0814	20.0867	14.36421	101.977286	-	14.36
19.9181	14.36052	16.4342	15.3810604	-	14.36
24.2722	28.26168	14.28695	32.3680383	-	14.29



60.3326	14.2808	17.17	16.2106473	-	14.28
90.7495	14.26865	17.35628	78.1645904	-	14.27
11.1062	20.79588	14.25236	21.6113342	-	14.25
1351.76	14.23961	14.22692	14.9685266	-	14.23
25.3775	23.45217	14.22455	43.2504187	-	14.22
77.1573	15.9485	14.1758	37.6628977	-	14.18
53.0539	20.70803	14.16064	77.8539297	-	14.16
322.9015	20.67058	14.15542	15.4337456	-	14.16
10.2913	14.05492	15.79584	14.778065	-	14.05
83.7095	14.03286	19.19964	49.4669386	-	14.03
171.5875	14.01837	89.3132	60.417545	-	14.02
14.8259	13.92145	39.98355	31.2405655	-	13.92
522.8395	13.88533	15.08443	32.496859	-	13.89
146.1965	16.69504	13.88359	30.8762323	-	13.88
91.3632	17.58449	13.86916	48.7959211	-	13.87
184.8727	13.85096	14.31863	16.3756423	-	13.85
118.9887	23.4495	13.83269	77.8679169	+	13.83
33.0296	30.91513	13.77149	58.0909154	-	13.77
88.7295	33.09702	13.76245	14.2200136	+	13.76
943.9455	13.96202	13.75754	18.1540015	-	13.76
207.3774	17.06886	13.73305	45.5654256	-	13.73
8.9232	14.60881	13.73301	24.539571	-	13.73
6.6306	31.96504	13.73059	112.435903	-	13.73
11.9376	31.36786	13.70774	68.7215102	-	13.71
150.1606	16.02804	13.66789	22.5212972	-	13.67
14.561	18.09998	13.66503	32.0225877	-	13.67
44.9743	13.6489	24.07118	19.1285779	-	13.65
43.9712	25.26058	13.63129	40.7202351	-	13.63
67.971	32.09211	23.31746	13.5969972	-	13.60
7.9329	18.82436	13.5854	26.0670751	-	13.59
135.3955	20.65267	13.58355	22.8072092	-	13.58
1236.73	13.58046	18.71478	13.8999146	-	13.58
60.2495	13.56807	17.91641	32.2002921	-	13.57
15.4506	16.81471	21.50821	13.5595317	-	13.56
5.7167	14.19785	13.53831	14.5751045	-	13.54
11.1947	13.53307	18.86361	56.4541703	-	13.53
9.636	15.19794	13.5189	169.95082	-	13.52
10.0261	21.6863	13.43436	19.5782508	-	13.43
10.5159	31.61709	13.38319	427.158256	-	13.38
621.2175	17.34884	14.04634	13.3823492	-	13.38
103.2455	13.37145	13.57908	34.5737248	-	13.37
357.0335	20.97703	13.36664	14.2063742	-	13.37
119.3622	15.35245	13.33272	95.8943577	-	13.33
22.3346	13.32682	17.7503	18.6482811	-	13.33
10.0488	13.30337	20.94139	23.8185156	-	13.30
448.4449	17.49648	13.30272	35.7353414	-	13.30
15.3876	15.5955	13.29801	15.5150316	-	13.30
28.6563	13.29631	207.4297	245.361805	-	13.30
17.3172	15.82341	13.29478	23.7119915	-	13.29
410.6255	16.95369	13.26088	39.5216839	-	13.26
129.1687	13.26025	13.49165	33.6133715	-	13.26
325.5511	20.69714	13.25457	39.3800343	-	13.25
122.4635	16.30025	24.17924	13.2489975	-	13.25

14.5729	17.04232	13.23321	21.8569605	-	13.23
130.8066	13.22893	13.43955	115.566611	-	13.23
12.4525	13.21739	17.14496	76.2120137	-	13.22
11.8608	37.30767	13.21697	53.018304	-	13.22
38.8414	13.2166	14.87418	38.4361609	-	13.22
27.1323	13.18767	66.85452	100.302105	-	13.19
136.2635	34.12419	13.18602	14.5353635	-	13.19
7.9065	13.18253	17.16122	15.7473471	-	13.18
29.6049	36.55201	13.1673	55.1376124	-	13.17
71.7376	13.16721	20.5452	56.8575963	-	13.17
49.9986	13.15291	13.96167	31.4514706	-	13.15
73.8195	16.57629	13.14112	38.9775534	-	13.14
66.6938	16.16452	13.12587	28.5413862	-	13.13
130.6095	29.10086	13.12524	55.5713597	-	13.13
82.8695	15.72801	13.12165	18.1163576	-	13.12
39.9693	16.9352	13.10859	123.814415	-	13.11
283.8604	14.47608	13.0761	16.3951559	-	13.08
19.0438	22.64298	13.06811	71.0899873	-	13.07
90.7961	13.05463	13.84418	18.0209447	-	13.05
216.7835	18.6238	13.03928	18.6629767	-	13.04
6.0059	23.37426	13.01776	39.2912802	-	13.02
91.6268	16.41752	13.00998	133.813355	-	13.01
93.8115	20.8075	29.5666	12.9898094	-	12.99
144.1462	25.31972	36.64864	12.9824269	-	12.98
71.9256	12.95818	14.10703	31.9182989	-	12.96
39.3909	13.40947	12.92539	45.6835843	-	12.93
21.347	17.28475	17.88995	12.9226355	-	12.92
82.6207	16.6141	12.9226	26.9144355	-	12.92
510.4106	12.91851	15.20926	25.5952237	-	12.92
156.4396	24.94396	23.99432	12.8649236	-	12.86
6.9939	15.71655	14.88623	12.8639815	-	12.86
10.1108	20.36248	16.67028	12.8537307	-	12.85
13.7345	12.82945	18.95206	55.7942189	-	12.83
278.4289	16.43385	12.81898	34.8401387	-	12.82
34.5017	12.77907	13.80057	15.039998	-	12.78
11.8875	12.73663	20.42385	15.0393438	-	12.74
324.3135	13.56122	12.72407	35.8511221	-	12.72
15.1014	18.88137	12.71748	23.8951024	-	12.72
40.8788	39.4294	42.13297	12.709216	-	12.71
74.6895	14.76101	12.67076	22.6820838	+	12.67
58.5257	15.13973	12.66919	133.997516	-	12.67
13.6319	25.3935	12.6675	42.3580205	-	12.67
507.297	12.66137	14.03388	15.5829691	-	12.66
34.2893	14.27495	12.65421	40.1253306	+	12.65
45.764	22.02111	18.87606	12.6448628	-	12.64
11.2091	17.8694	12.60607	18.4728033	-	12.61
58.4318	24.36467	12.52367	77.6451265	-	12.52
384.9732	13.71237	12.51033	25.116173	-	12.51
89.8455	20.40757	12.50902	66.2361443	-	12.51
501.247	117.6331	45.67696	12.4907471	-	12.49
6.3082	19.95241	12.48664	27.3369107	-	12.49
7.8954	20.09529	12.47996	17.8825012	-	12.48
45.7921	16.08735	12.47933	41.3015673	-	12.48

62.9503	94.17349	91.99661	12.4610606	-	12.46
17.1216	20.68585	12.45609	632.209525	-	12.46
14.3281	24.16501	12.52547	12.4112967	-	12.41
194.3261	13.14088	12.38199	14.3090902	+	12.38
29.6477	21.9503	12.37339	15.2597166	-	12.37
829.338	12.36488	13.22836	21.4352646	-	12.36
28.2687	12.35915	14.4448	34.0456229	-	12.36
340.4635	12.81834	12.35766	12.7696963	-	12.36
52.3197	36.15188	30.57453	12.3303364	-	12.33
159.9635	17.53521	12.31751	14.1116536	-	12.32
15.3787	17.30346	12.2754	27.8448438	-	12.28
632.9795	36.92387	37.94844	12.2331916	-	12.23
81.8919	12.22367	16.97552	18.372165	-	12.22
17.587	19.49307	17.23605	12.2233184	-	12.22
440.2035	17.62405	12.21603	31.1637175	-	12.22
191.7996	16.07247	12.20412	37.5687421	+	12.20
29.4598	18.09118	12.20047	63.9984487	-	12.20
7.704	12.18933	12.4939	13.2862799	-	12.19
40.6183	23.65645	12.18787	62.5872722	-	12.19
29.6574	12.17717	28.84335	22.7690829	-	12.18
5.1362	14.5973	12.17675	14.0755033	-	12.18
7.7599	12.16924	34.61825	51.8160672	-	12.17
177.6715	14.15937	12.15341	34.4467728	-	12.15
30.9987	19.63703	12.15327	79.4620258	-	12.15
12.0098	16.10262	12.30196	12.1290529	-	12.13
8.2895	16.8894	12.11855	15.3692623	-	12.12
178.9535	13.22686	12.11243	18.313805	-	12.11
205.7303	12.50741	12.11168	31.3230973	-	12.11
170.2249	21.21479	12.09809	16.4570659	-	12.10
107.187	20.09867	12.09296	12.9520324	-	12.09
11.1198	14.72429	12.09103	18.8243943	-	12.09
15.8835	25.51662	28.2178	12.0092864	-	12.01
20.5851	11.97573	17.93851	14.6043255	-	11.98
380.377	16.42375	11.97303	12.9453027	-	11.97
12.8845	17.57138	17.1696	11.9644146	-	11.96
260.902	11.95556	12.63565	14.7033189	-	11.96
13.1842	16.87661	18.63889	11.9289073	-	11.93
294.9212	17.68435	18.75759	11.9192476	-	11.92
17.7288	18.17986	12.51621	11.9124588	-	11.91
120.3675	17.18503	11.90653	54.6144557	-	11.91
14.0972	12.55301	11.9005	12.881856	-	11.90
132.2345	18.99381	11.88852	23.4875036	-	11.89
142.3202	12.42336	11.88426	61.1075975	-	11.88
164.0691	24.47956	21.29746	11.8573668	-	11.86
16.953	11.84019	19.483	21.0828467	-	11.84
23.9318	16.48246	11.83698	66.6587344	-	11.84
9.4484	18.77913	11.81794	13.1450298	-	11.82
27.2793	19.81548	16.33652	11.8040969	-	11.80
8.0829	25.70572	11.76624	31.3719828	-	11.77
336.9275	18.86465	11.73865	36.250729	-	11.74
11.5362	29.91879	11.73186	133.178603	-	11.73
8.035	23.70831	11.71296	379.20168	-	11.71
30.5584	17.73838	12.60382	11.6942477	-	11.69

13.7018	11.65906	32.18089	22.1227503	-	11.66
237.7458	11.65542	12.59188	20.5903238	-	11.66
64.1221	19.06073	11.65201	70.6750372	-	11.65
10.7973	11.65102	14.42816	12.2039306	-	11.65
96.5728	12.61721	11.64047	22.7951711	+	11.64
69.5814	30.60261	14.70566	11.6330241	-	11.63
190.8481	11.62002	14.10879	17.273997	-	11.62
142.2515	15.29932	13.91053	11.6128934	-	11.61
228.8323	11.61175	11.90212	17.722582	-	11.61
40.0815	11.59623	18.05583	14.3602435	-	11.60
11.8164	16.41029	11.59536	36.1762635	-	11.60
51.5412	16.54573	11.59123	31.5711994	-	11.59
14.1322	14.08737	11.58586	15.7979296	-	11.59
79.524	19.27329	11.53641	85.8707497	-	11.54
16.7423	29.92811	11.46666	122.326771	-	11.47
9.2495	24.79207	11.46193	23.6606844	-	11.46
76.5326	13.16728	11.42119	12.1265644	-	11.42
152.8095	17.28192	11.40451	55.0270114	-	11.40
40.6901	11.39957	31.34065	19.042111	-	11.40
42.9796	16.1787	23.74731	11.3948362	-	11.39
45.9611	15.1812	11.37461	31.976702	-	11.37
395.1699	23.76716	16.08167	11.3642998	-	11.36
169.6711	22.1517	13.44202	11.3560854	-	11.36
449.1395	18.06871	11.34566	21.7888551	-	11.35
78.6835	26.2542	21.72909	11.3321789	-	11.33
13.2458	20.35821	11.31438	14.0439309	-	11.31
327.3122	13.11331	11.29964	11.4759593	-	11.30
35.6429	33.36249	11.29061	53.4839449	-	11.29
9.3294	14.37085	11.28881	15.8491543	-	11.29
5.8168	11.25525	12.86994	19.0993673	-	11.26
19.1467	18.71131	11.24087	47.192477	-	11.24
6.8072	14.61945	11.23528	11.7532025	-	11.24
20.7141	11.22244	159.523	219.880927	-	11.22
18.0595	12.94116	11.20853	14.5749052	-	11.21
152.7495	28.68819	27.0803	11.1994566	-	11.20
6.3023	11.17125	14.55961	1723.06896	-	11.17
531.5959	15.5211	12.47566	11.1667376	-	11.17
49.2684	13.95364	11.16583	34.9403167	-	11.17
65.0234	11.15119	28.79918	12.0419649	-	11.15
19.5678	13.34624	11.06492	18.378484	-	11.06
32.5129	11.05423	13.6933	35.617724	-	11.05
15.4421	11.94941	11.04653	20.6740081	-	11.05
60.7469	11.45212	11.0452	24.028143	-	11.05
186.8109	26.22782	11.04255	43.3970207	-	11.04
38.8201	17.71776	14.1097	11.0343224	-	11.03
13.298	14.00036	11.01476	13.7285231	-	11.01
8.0426	19.19711	10.97206	18.1647602	-	10.97
220.5695	18.85499	10.96708	12.1541297	-	10.97
169.8175	10.9621	12.74024	13.007703	-	10.96
124.3115	10.92039	11.17143	17.0937484	-	10.92
34.7036	24.58344	10.8888	12.6973426	-	10.89
227.9135	12.66132	10.85719	15.3821652	-	10.86
233.3915	10.82412	11.25593	29.8430813	-	10.82



14.6742	16.37959	10.82241	23.9504368	-	10.82
8.9232	14.92309	12.68787	10.8173637	-	10.82
11.7429	13.58152	10.81308	11.6385901	-	10.81
91.0315	30.80698	11.34917	10.812823	+	10.81
405.4415	16.33994	10.78963	34.7884822	-	10.79
67.4598	11.6816	10.78768	22.2123324	-	10.79
22.1862	10.76285	18.05613	39.2746257	-	10.76
24.9272	22.20575	10.75492	27.2290189	-	10.75
34.0608	28.0155	10.74884	26.7690571	-	10.75
111.2357	13.0704	10.74669	40.4001368	-	10.75
7.7777	10.71137	14.41451	13.4656132	-	10.71
130.1135	16.91226	10.69971	17.2759437	-	10.70
484.8736	14.00555	10.67857	15.6633017	-	10.68
15.527	10.67667	21.44536	25.3645585	-	10.68
33.5334	16.80762	10.655	11.7183316	-	10.66
121.5528	16.23299	10.64873	41.4262896	-	10.65
159.4293	11.87609	10.62581	62.0499858	+	10.63
282.6255	24.24666	25.15271	10.6241917	-	10.62
19.0107	15.14213	10.62076	11.1098224	-	10.62
9.4025	21.42203	10.60022	121.033289	-	10.60
7.5836	11.122	13.95576	10.5869903	-	10.59
11.0265	10.57557	12.07574	42.2730241	-	10.58
17.4719	18.89734	10.564	29.9074457	-	10.56
54.3231	11.50373	13.91596	10.5216289	-	10.52
12.0162	21.88111	10.50275	44.5470531	-	10.50
35.723	17.53477	10.49062	19.6620301	-	10.49
27.7645	18.8082	10.48797	31.9781123	-	10.49
53.4281	18.82794	10.48343	36.8435992	-	10.48
71.6589	21.59774	11.75195	10.4736174	-	10.47
407.8395	13.77777	19.08019	10.4672375	-	10.47
1847.779	14.64909	16.35552	10.462443	-	10.46
36.2946	21.25037	12.60766	10.451293	-	10.45
9.275	20.46731	10.44776	20.1422642	-	10.45
41.439	21.13085	30.16311	10.4404426	-	10.44
1393.802	10.43935	10.82952	12.3540394	+	10.44
170.4235	10.98473	10.40295	25.8187721	-	10.40
22.1134	27.99163	10.39699	31.3545407	-	10.40
127.5275	14.14524	10.39541	27.8978801	-	10.40
149.1228	12.04548	10.39221	68.7175134	-	10.39
6.1459	15.7583	10.36953	70.0755788	-	10.37
79.6835	15.87202	10.34554	24.837482	+	10.35
14.3138	10.33505	11.21898	11.0346309	-	10.34
81.9515	11.86105	10.3324	19.0574364	-	10.33
149.3655	17.39671	10.33072	28.6216931	-	10.33
376.5381	19.87372	12.40305	10.3142593	-	10.31
291.9643	11.0142	10.31403	27.5644985	-	10.31
180.0405	11.92598	10.28707	10.2830169	-	10.28
319.2055	14.60356	15.31412	10.2663065	-	10.27
286.3517	16.22422	12.21258	10.2424477	-	10.24
15.3876	14.05279	10.22707	19.773233	-	10.23
260.3275	14.97989	10.20861	39.8876089	-	10.21
195.5595	28.74392	27.26925	10.2065279	-	10.21
134.2661	17.49583	12.26551	10.2040016	-	10.20

107.0415	25.26853	29.50882	10.2032529	-	10.20
307.3577	14.62595	10.20317	14.7748321	-	10.20
35.1896	33.70516	10.184	70.3625929	-	10.18
165.3115	10.16166	11.44598	28.1490187	-	10.16
6.935	10.53327	10.14678	14.8974045	-	10.15
123.2355	16.95749	14.47753	10.1456277	-	10.15
33.6339	11.67014	10.14493	146.867402	-	10.14
39.0806	10.96946	10.14023	37.299151	-	10.14
127.3195	14.61393	10.12075	12.5687542	-	10.12
123.5615	12.36702	10.09222	14.6386172	-	10.09
9.9318	10.07561	24.12643	33.2527336	-	10.08
117.672	15.17777	10.0739	17.694692	-	10.07
26.5205	16.78332	10.07209	49.6506137	-	10.07
456.3235	11.44354	10.9902	10.0676286	-	10.07
9.0301	10.04536	11.11442	13.6979103	-	10.05
63.8002	10.03716	10.32902	19.2752922	-	10.04
241.8216	10.29067	10.01733	19.6919192	-	10.02
427.6886	10.37729	10.002	20.9672774	-	10.00
222.4215	9.994429	13.136	25.3373595	-	9.99
13.1905	21.46234	9.992462	67.9341193	-	9.99
10.261	15.2935	9.9902	53.2492934	-	9.99
18.1898	18.55281	9.981113	24.6805078	-	9.98
297.5175	18.20316	9.970913	62.4117892	-	9.97
71.9416	12.92873	9.959267	85.0120264	-	9.96
30.922	25.041	9.954811	74.6998739	-	9.95
35.585	27.7093	26.03493	9.9016861	-	9.90
180.5035	19.51997	9.90046	15.2412302	-	9.90
155.5335	49.81875	34.62885	9.89911177	-	9.90
7.8882	12.60252	13.15694	9.89547679	-	9.90
7.6677	16.70784	9.893648	17.6598458	+	9.89
12.9087	13.33158	9.870696	17.1027989	-	9.87
149.179	13.3811	9.86301	23.9515455	-	9.86
211.7695	12.36114	9.858977	23.3650809	-	9.86
433.8935	13.64777	9.827535	19.4421292	-	9.83
22.3232	19.44607	9.804768	25.1687706	-	9.80
19.3074	12.26718	9.797394	35.5612615	-	9.80
147.1782	18.46141	14.77436	9.79234357	-	9.79
111.9095	9.790546	10.0133	32.8864082	-	9.79
10.7476	15.98382	9.787133	21.0273642	-	9.79
27.3271	9.756399	16.47346	10.0899656	-	9.76
38.1872	9.730536	22.73978	23.6759333	-	9.73
324.584	34.92965	15.14042	9.72950638	-	9.73
159.8935	23.14395	31.50427	9.70548209	-	9.71
532.5227	20.5834	14.26264	9.70488282	-	9.70
124.3795	17.79266	9.69461	10.914461	-	9.69
48.3932	9.689506	15.44163	11.2124534	-	9.69
9.8235	16.97271	9.649512	67.5084746	-	9.65
74.2355	10.50732	9.649	189.876912	-	9.65
164.4419	9.955567	10.58412	9.64399584	-	9.64
39.4869	16.91529	9.63219	84.1433817	-	9.63
434.111	13.60121	9.603985	26.004735	-	9.60
50.9502	10.92974	9.592752	85.9028051	+	9.59
71.7308	12.487	9.590326	20.6828796	-	9.59



9.2695	11.01552	9.582188	21.0513512	-	9.58
10.2684	15.81242	9.556728	67.5176853	+	9.56
38.1301	9.753152	9.53172	46.0030134	-	9.53
234.9095	16.25133	9.528414	28.9975565	-	9.53
57.6682	13.43862	9.518948	16.2260466	-	9.52
194.0115	23.18942	12.77818	9.51229644	-	9.51
5.5444	11.89644	9.500695	13.9249513	-	9.50
24.7471	17.29717	9.477971	44.6606471	-	9.48
47.5782	19.95822	9.476241	59.289454	-	9.48
55.8602	9.47332	39.37506	16.1435065	-	9.47
8.1678	9.454496	15.21499	54.5614609	-	9.45
22.9501	25.36497	9.452402	43.5226644	-	9.45
70.1656	9.450742	10.7393	15.8507517	-	9.45
52.4974	9.444888	10.58385	13.5737675	-	9.44
62.4864	16.4987	17.9597	9.41882234	-	9.42
697.6235	14.3034	10.77108	9.36572162	-	9.37
47.9729	13.77036	9.36153	66.0172201	-	9.36
19.4995	15.01071	14.95466	9.34575246	-	9.35
166.0555	15.52911	9.337119	23.1814634	-	9.34
31.474	12.38738	9.336007	17.6485353	-	9.34
49.43	14.85959	9.334638	11.293949	-	9.33
13.2346	16.81624	9.326851	44.68299	-	9.33
28.4997	9.326073	9.626252	14.3231016	-	9.33
85.6233	26.57238	11.6131	9.31232503	-	9.31
55.278	38.79285	16.55539	9.29609429	-	9.30
13.7247	18.05467	9.273539	99.0450429	-	9.27
15.844	13.83366	9.261261	12.845645	-	9.26
174.9955	14.19815	11.65753	9.23856499	-	9.24
15.934	12.46168	9.237476	93.6162608	-	9.24
33.3401	9.235988	10.73186	55.394015	-	9.24
228.5915	18.95726	10.56637	9.21488988	-	9.21
283.3475	10.43719	9.205619	21.6441066	-	9.21
24.1873	13.07004	9.198903	105.336912	-	9.20
324.1406	9.182061	12.18443	18.350418	-	9.18
6.7739	12.95708	9.177989	10.5628368	-	9.18
14.9601	19.06955	9.16918	18.884339	-	9.17
426.6397	11.23169	9.164656	23.7131181	-	9.16
99.1555	12.61503	17.70019	9.16067692	-	9.16
8.7796	14.28023	9.152188	22.9422867	-	9.15
27.9905	9.14818	9.607828	262.732684	+	9.15
188.3795	14.79096	9.147246	9.21406151	-	9.15
161.9015	19.35519	11.60774	9.13636687	-	9.14
1335.423	16.20388	17.00059	9.13465597	+	9.13
69.1497	26.32455	19.5087	9.11857463	-	9.12
8.4218	9.106359	14.11546	12.8166781	-	9.11
443.4487	9.624422	9.088444	15.011918	-	9.09
8.315	9.081289	10.22088	40.1290319	-	9.08
1223.643	9.986195	9.07517	12.6428652	-	9.08
37.2993	19.07564	9.061728	10.9362776	-	9.06
6.3458	9.040941	9.169533	11.2157648	-	9.04
555.2566	12.61959	9.026989	15.1229495	-	9.03
88.8008	11.19421	9.026753	155.800708	-	9.03
68.7201	13.95499	9.004082	39.6651635	-	9.00

286.2038	16.04663	9.537733	8.99885851	-	9.00
63.5362	8.984713	10.61908	57.184243	-	8.98
98.8078	10.18412	8.983415	10.3387941	-	8.98
26.7539	10.76686	8.955049	11.1501052	-	8.96
55.3919	29.80483	17.67802	8.94759884	-	8.95
788.4355	9.506797	8.932764	10.1974347	-	8.93
510.2987	12.806	8.926032	18.0943622	-	8.93
8.6956	8.920086	9.397878	10.839183	-	8.92
1976.803	13.20137	14.14129	8.91505131	-	8.92
9.95	8.909984	15.71643	22.0317487	-	8.91
46.547	21.80107	14.97573	8.87283391	-	8.87
514.0255	11.34767	8.872385	13.3131907	-	8.87
19.4545	9.97385	9.749552	8.87144362	-	8.87
123.1255	14.22254	8.869493	47.1022753	-	8.87
28.2551	28.02215	8.852974	45.7538462	-	8.85
306.671	12.25517	8.837426	24.9665325	-	8.84
70.6556	29.58801	8.824919	22.7655487	-	8.82
170.3342	9.775567	9.164852	8.82293632	-	8.82
1549.135	11.25272	8.792559	13.1569484	-	8.79
96.2375	11.60382	8.790813	36.8642317	-	8.79
125.1395	15.44085	8.786872	42.6311396	+	8.79
202.8409	12.92044	8.776198	17.2657856	-	8.78
219.9935	23.82124	9.965748	8.77523609	-	8.78
40.7033	8.763981	9.501545	101.882732	-	8.76
35.0894	11.44968	8.760819	85.2581549	-	8.76
223.2929	11.8556	8.75502	29.9404338	-	8.76
16.7077	13.20829	8.739693	13.4993745	-	8.74
38.4996	8.949285	8.738796	15.3715207	-	8.74
10.5831	8.719106	11.39919	9.8596725	-	8.72
15.8835	11.93948	8.702677	16.0891176	-	8.70
215.6068	11.05147	8.691371	10.7926536	-	8.69
8.9626	14.19692	8.689289	186.010477	-	8.69
62.2464	20.16701	8.68887	11.2314849	-	8.69
96.0772	11.51139	8.678894	15.3947815	-	8.68
101.7668	8.672538	9.193343	33.0554749	-	8.67
5.5651	10.45545	8.628517	11.7482166	-	8.63
1247.973	9.750487	8.618869	9.22192335	-	8.62
487.4584	13.77222	8.610164	16.9479357	-	8.61
34.3655	9.849758	8.605225	151.421091	-	8.61
83.4826	15.21258	8.600127	161.114837	-	8.60
39.8087	8.594032	9.092538	19.1809479	-	8.59
22.6217	14.91018	8.592402	53.8976956	-	8.59
9.4082	32.66085	8.590011	55.0185476	-	8.59
6.5571	11.122	8.588362	30.9672721	-	8.59
26.0254	12.26782	8.585566	280.238286	-	8.59
396.3094	10.44797	8.580333	9.00179885	-	8.58
7.4008	8.705334	8.576786	9.10385364	-	8.58
186.8555	8.548513	12.74951	22.3299475	-	8.55
143.9184	11.10106	8.544972	15.30913	-	8.54
65.5379	28.95126	11.76681	8.51726253	-	8.52
37.3022	11.03132	8.512758	32.2099903	-	8.51
6.3482	8.507438	9.055089	11.1079676	-	8.51
55.8783	8.507121	8.496327	90.835539	-	8.50

573.7975	21.48604	14.48929	8.49603127	-	8.50
7.2782	8.491502	9.922376	14.9916738	-	8.49
33.0115	14.42724	8.465274	12.3913061	-	8.47
51.2437	11.25773	11.1036	8.4461407	-	8.45
10.0863	8.438986	10.69084	12.4897633	-	8.44
27.5515	10.65946	8.433697	24.0084024	-	8.43
32.8012	12.22693	8.584804	8.41528664	-	8.42
18.8265	8.41141	26.28716	23.5255889	-	8.41
146.2056	10.48063	8.408727	34.5424012	-	8.41
27.2538	15.35951	8.400208	14.1231425	-	8.40
7.7044	15.01752	8.394086	13.6325996	-	8.39
52.7143	20.2508	8.392304	32.0354951	-	8.39
8.8445	9.343244	11.50153	8.38911188	-	8.39
13.5167	18.01588	8.375131	45.4756117	-	8.38
82.1199	8.631395	8.363802	41.4283201	-	8.36
2162.306	14.01392	12.85397	8.36004255	-	8.36
93.8758	15.26462	8.357141	72.0795082	-	8.36
522.564	10.35399	8.357078	8.83514785	-	8.36
23.0843	10.36944	8.356084	9.12677881	-	8.36
8.8562	8.880372	8.347265	8.94615072	-	8.35
75.0455	9.029953	8.344574	13.3382748	-	8.34
79.5315	23.03199	8.337533	23.9933058	-	8.34
1078.097	8.638532	8.647194	8.33498207	-	8.33
141.2965	9.457408	8.325591	16.3086099	-	8.33
265.9975	12.59645	8.323336	22.4036748	-	8.32
10.512	12.04323	8.32094	14.7537576	-	8.32
130.3735	21.06116	20.71716	8.30949158	-	8.31
301.9556	15.22189	8.304541	8.49524069	-	8.30
36.7395	9.375724	8.298393	11.0778726	+	8.30
7.8773	8.294228	8.861199	12.722316	-	8.29
452.7605	8.690416	8.285186	14.7008971	-	8.29
13.2196	14.95743	8.278238	21.0221641	-	8.28
182.5248	8.260362	8.729918	16.1211074	-	8.26
37.5487	8.246876	8.468829	9.37835131	-	8.25
12.1326	18.93976	8.232767	386.981644	-	8.23
19.5237	16.22202	8.228665	124.985197	-	8.23
817.559	10.82755	8.226749	13.3085533	-	8.23
8.8944	9.518528	8.627214	8.20489297	-	8.20
11.2158	15.37331	8.204711	33.0344247	-	8.20
169.9318	9.564909	8.20313	16.0376427	-	8.20
37.6371	19.30238	8.192067	35.3817244	-	8.19
86.3995	10.87996	8.190794	27.2841104	-	8.19
202.5653	8.185734	10.5776	37.7272238	+	8.19
29.1123	9.52181	8.180264	50.2564037	-	8.18
114.6495	8.170438	12.61014	13.0929904	-	8.17
559.1881	18.10369	18.36159	8.16975379	-	8.17
276.9695	10.41756	12.28191	8.16644251	-	8.17
10.3563	8.165517	11.94811	13.048048	-	8.17
86.2275	9.018551	8.162477	8.54907657	-	8.16
52.7769	8.979763	9.439714	8.16034098	-	8.16
24.4474	8.156522	27.6084	22.156037	-	8.16
27.6634	9.563487	8.148444	79.1118771	-	8.15
42.8582	10.0026	12.30467	8.13112777	-	8.13

753.4095	8.711212	9.736953	8.11252778	-	8.11
20.149	11.16561	8.103944	27.5498288	-	8.10
51.2433	8.080783	9.430645	15.7302555	-	8.08
21.3754	12.02103	8.072668	65.010484	-	8.07
11.2091	8.715857	8.046029	8.26984325	-	8.05
10.1927	8.136964	8.041027	10.2508168	-	8.04
80.6975	8.037165	17.50067	25.1195093	-	8.04
32.271	11.15981	8.037108	11.8975396	-	8.04
130.3235	10.15862	10.30907	8.03309841	+	8.03
12.4435	12.5499	8.025956	12.0396753	-	8.03
13.7154	10.963	7.999134	9.22623474	-	8.00
17.9947	7.997957	18.04329	20.1227862	-	8.00
206.3496	14.0731	14.61613	7.9842762	-	7.98
266.8095	14.1631	7.982406	39.1150735	-	7.98
63.7842	10.88849	7.981581	13.7671947	-	7.98
114.3615	9.895419	7.979828	24.5675485	-	7.98
395.2762	11.68873	7.977991	29.3510753	-	7.98
168.7775	7.957261	8.033042	25.1172508	-	7.96
53.1129	7.989603	7.93532	11.6107669	-	7.94
25.3249	27.67207	7.929101	38.4253758	-	7.93
103.6624	11.27407	7.907707	40.2526596	-	7.91
290.754	8.160993	7.902438	15.6802847	-	7.90
29.6706	7.886123	7.986131	85.7536248	-	7.89
314.2754	9.756666	7.883181	45.3034552	-	7.88
46.8529	15.46412	21.00094	7.88304459	-	7.88
198.7635	13.28425	9.916395	7.88266156	-	7.88
108.4043	13.41689	7.875805	32.6409737	-	7.88
17.0264	9.602543	7.875617	39.5267937	-	7.88
43.2329	17.42272	7.864179	77.7113009	-	7.86
14.8444	10.05996	10.25177	7.86030422	-	7.86
17.3915	10.83639	8.931953	7.85461289	-	7.85
8.6538	10.05621	7.849165	18.1626106	-	7.85
18.4915	7.846452	10.4455	13.498283	-	7.85
1834.171	9.382795	7.844857	10.1109038	-	7.84
34.0238	10.86712	7.838038	81.4941012	-	7.84
62.9703	9.541524	7.830289	20.3081056	+	7.83
12.0696	9.775772	7.818208	16.8200686	-	7.82
144.2533	14.28695	7.80714	47.1698706	-	7.81
11.4401	8.9295	12.50385	7.80434612	-	7.80
66.6518	10.74152	7.787612	7.93178129	-	7.79
13.9322	14.80375	7.782757	79.8357402	-	7.78
229.9535	9.629953	7.764628	12.5523095	-	7.76
16.8887	12.61402	7.756799	73.5549509	-	7.76
140.3078	10.31957	7.744762	18.3505607	-	7.74
465.6215	8.849899	7.743575	9.78996782	-	7.74
81.8555	15.35246	7.730698	117.628815	-	7.73
7.5506	9.054855	7.726686	14.1860912	-	7.73
17.8271	19.49797	7.724052	11.3269573	-	7.72
1093.064	10.44476	7.715791	10.4220345	-	7.72
292.2615	13.24748	7.694656	21.930776	-	7.69
4.9356	16.80596	7.694206	86.2576992	-	7.69
133.5735	12.63631	7.6882	28.8962968	-	7.69
180.4275	9.14532	7.686659	32.2538055	-	7.69

29.8143	7.683207	10.04926	8.50548227	-	7.68
13.1896	9.150595	7.676758	16.2632301	-	7.68
234.3822	9.200128	7.675845	48.7682883	+	7.68
627.9575	7.661014	8.110036	11.0913729	-	7.66
2049.876	9.811109	7.641039	9.78868887	-	7.64
18.4455	7.638448	10.27116	26.5899813	-	7.64
68.5957	9.863314	7.634102	9.20395448	-	7.63
13.0344	7.629878	10.56533	10.715453	-	7.63
37.9653	13.02046	7.628016	45.7495529	-	7.63
147.6515	8.324758	7.625761	10.7276086	-	7.63
24.3179	9.862528	7.615712	16.918048	-	7.62
7.1685	7.613203	9.160364	10.7758387	-	7.61
41.2451	11.1979	10.21014	7.61108107	-	7.61
360.407	7.7685	7.607882	18.8252179	-	7.61
91.2902	14.59753	11.62481	7.60532894	-	7.61
253.1455	7.588686	8.802759	26.9194811	-	7.59
21.828	16.78822	7.584123	17.2139225	-	7.58
22.2243	10.56972	7.544864	8.75309909	-	7.54
152.1055	8.396616	8.803084	7.54152808	-	7.54
9.4988	7.538119	8.840072	16.0615551	-	7.54
22.1195	18.91977	7.533199	22.7635118	-	7.53
28.533	9.436934	8.680187	7.52060772	-	7.52
188.9782	7.514591	13.80032	11.9181445	-	7.51
179.2375	9.886492	7.503153	25.1826376	-	7.50
11.2239	14.40066	7.495826	30.282834	-	7.50
65.5566	16.14261	10.08104	7.49200081	-	7.49
56.8248	22.63193	7.490415	43.9072993	-	7.49
11.7142	14.26774	7.481184	47.5955251	-	7.48
277.0717	9.484446	7.475845	11.0368742	-	7.48
125.4268	11.73309	7.474192	39.7275981	-	7.47
9.3388	15.99411	7.468694	44.0439243	-	7.47
263.9524	20.54597	7.46709	18.3042757	-	7.47
24.3521	11.88863	7.46612	181.272642	-	7.47
37.5877	8.999073	7.45828	30.9797487	-	7.46
56.1833	8.343744	8.219029	7.45583652	-	7.46
42.0055	7.43938	8.39413	29.0305936	-	7.44
186.4675	9.366971	7.436231	9.64396048	-	7.44
108.1929	12.03905	15.68566	7.42751604	-	7.43
173.4515	15.26138	7.425229	9.67452573	-	7.43
10.7408	7.421168	10.5161	10.303739	-	7.42
2538.784	10.70917	7.754895	7.41613636	-	7.42
19.2594	12.04787	14.98306	7.41598908	-	7.42
123.3375	7.406814	7.518206	21.6448323	-	7.41
122.4072	8.613223	7.406714	20.10531	-	7.41
32.1209	20.07992	7.399799	13.0268299	-	7.40
18.1208	13.56972	7.385358	13.4302845	-	7.39
16.8705	8.246711	13.03814	7.36335615	-	7.36
24.4232	7.349146	18.18383	8.81360755	-	7.35
11.1198	8.340225	7.34731	12.5514398	-	7.35
8.3349	7.959844	7.334388	14.3288462	-	7.33
175.6355	10.40195	7.322989	46.7374733	-	7.32
82.0095	16.27126	7.313962	47.2628354	-	7.31
4033.6	13.92085	12.77721	7.30755415	-	7.31

198.4455	28.68713	27.12118	7.30446143	-	7.30
17.8271	10.36534	7.293611	77.5017978	-	7.29
28.939	9.963876	7.291853	33.1640865	-	7.29
109.962	10.58257	7.271628	102.219635	-	7.27
16.0325	7.270305	10.89802	11.2576017	-	7.27
112.8135	7.94829	8.132947	7.26279656	-	7.26
343.0348	14.39077	7.262734	8.29149666	-	7.26
198.6257	9.930931	7.261224	8.82236085	-	7.26
614.8218	14.24378	11.18	7.25483953	-	7.25
5.461	9.70639	7.248069	14.1424281	-	7.25
71.1676	9.989316	7.237286	18.860036	-	7.24
22.6286	15.84673	8.382402	7.2322415	-	7.23
83.2209	10.52011	7.232224	33.7385008	-	7.23
62.0991	7.226756	7.980589	23.310932	-	7.23
12.7938	10.21	7.224727	17.9844534	-	7.22
26.0085	16.50537	10.72607	7.22292712	-	7.22
58.842	22.32358	9.064009	7.21599368	-	7.22
44.087	18.80819	7.196817	27.1268446	-	7.20
48.9647	9.423819	7.736877	7.19182391	-	7.19
579.8892	8.818156	7.188068	16.5727479	-	7.19
13.1367	7.181895	7.915383	7.6655096	-	7.18
9.7997	7.176478	11.44767	14.0211435	-	7.18
117.8427	8.041509	7.17184	62.595235	-	7.17
29.4381	9.444423	7.165314	8.24582769	-	7.17
260.6815	8.39868	7.160845	32.9699403	-	7.16
145.1895	14.42732	8.613178	7.15571374	-	7.16
15.4193	12.61906	7.148632	22.7824545	-	7.15
41.7699	7.148554	7.207291	13.1376781	-	7.15
11.6148	8.717535	7.140853	11.5014895	-	7.14
12.4536	7.130062	12.06109	8.99061316	-	7.13
27.4616	9.650477	7.12607	73.1460403	-	7.13
13.004	13.62859	7.117373	22.6966703	-	7.12
57.4719	7.093432	9.090419	7.43792184	-	7.09
157.4224	11.51433	7.091113	7.64368667	+	7.09
11.9071	11.81257	7.084078	21.3316005	-	7.08
48.5581	7.083877	7.331901	14.4547233	-	7.08
82.5604	11.11727	9.461481	7.08147611	-	7.08
196.8349	10.64075	7.07921	17.6579682	-	7.08
240.0435	9.308473	7.071367	14.1733623	-	7.07
244.4435	10.79117	7.070286	7.88310837	-	7.07
42.7375	8.011203	7.060735	196.96069	-	7.06
211.3646	11.79317	7.060133	19.3874291	-	7.06
61.1354	8.217475	7.054866	18.5355113	-	7.05
7.6548	7.039846	8.110795	8.45208235	-	7.04
126.5215	7.438773	7.033427	11.4257537	-	7.03
93.8775	12.87626	8.892543	7.03271284	+	7.03
11.0006	15.92023	7.022416	13.9573751	+	7.02
14.7771	7.179927	7.130331	7.02031522	-	7.02
120.4255	7.018067	12.20009	11.913187	-	7.02
17.3263	13.47826	7.004914	27.3908163	-	7.00
69.5808	10.40544	6.987647	80.8157121	-	6.99
3845.441	7.86722	6.982776	7.3815792	-	6.98
26.1712	30.88256	6.977028	7.53620392	-	6.98

7.9014	6.973732	7.059936	8.21854355	-	6.97
64.724	13.8439	7.09608	6.95138279	-	6.95
22.3314	12.17813	6.950207	11.0309027	-	6.95
169.1155	14.13487	6.944492	9.20040741	-	6.94
478.1275	6.942847	7.924551	14.076947	-	6.94
8.284	8.797472	6.940367	15.2379768	-	6.94
443.2575	13.74633	6.93869	25.158215	+	6.94
59.8052	7.778118	6.935054	9.1471561	-	6.94
51.7329	13.96749	15.83536	6.93499688	-	6.93
38.5476	11.01035	6.931885	20.5429443	-	6.93
46.9068	16.58529	12.04806	6.92701485	-	6.93
71.1195	9.135161	6.921828	15.1409037	-	6.92
50.1541	8.2354	7.331403	6.91818814	-	6.92
409.5718	9.165193	9.10698	6.9126224	-	6.91
152.192	9.486433	6.907303	28.8673616	-	6.91
165.7888	9.579813	6.906724	31.829807	-	6.91
32.8628	6.904146	21.2399	16.7700774	-	6.90
81.0794	6.90012	7.150352	69.0391086	-	6.90
138.609	6.963616	6.896363	8.67549365	-	6.90
47.136	12.85571	6.893162	16.0272297	-	6.89
44.308	6.89059	7.470762	12.4187844	-	6.89
21.2363	6.889639	93.17552	210.309305	-	6.89
8.9915	6.888864	8.00798	28.8287271	+	6.89
103.5095	7.527497	6.880433	32.822509	-	6.88
30.6151	16.60364	11.07789	6.87691695	-	6.88
348.7994	6.871167	8.845014	27.4560607	-	6.87
1137.913	7.047989	6.866916	25.0430252	-	6.87
12.5702	6.863943	7.565455	7.31279534	-	6.86
23.307	6.851602	7.248818	26.0081306	-	6.85
639.6755	9.864117	6.850345	20.5810032	-	6.85
113.8075	11.65504	10.18593	6.84240933	-	6.84
11.4429	7.600208	7.956361	6.84018037	-	6.84
44.513	24.3232	9.081559	6.83839552	-	6.84
193.7395	9.998959	6.8372	35.5609956	-	6.84
6.1182	6.836567	7.445197	7.11335033	-	6.84
25.7614	8.828097	18.2836	6.83468678	-	6.83
82.866	9.952523	8.445361	6.83155335	-	6.83
31.8984	8.467811	12.46009	6.82484074	-	6.82
16.0509	6.820735	11.67053	35.6430792	-	6.82
30.3209	12.00936	6.820275	6.91587321	-	6.82
195.9735	11.08113	6.814583	46.7409905	-	6.81
104.7069	12.08879	6.811732	20.7054884	-	6.81
13.0231	14.38489	6.809522	15.0148198	-	6.81
81.6375	18.70635	9.143722	6.78966774	-	6.79
14.4506	11.79234	6.788406	28.9698352	-	6.79
28.7452	6.771855	9.083877	7.49862586	-	6.77
40.595	9.904132	6.765879	26.679431	-	6.77
209.9393	6.748548	7.494981	9.39148078	-	6.75
12.5702	6.742826	7.172365	9.83830806	-	6.74
36.0266	7.019708	6.736362	36.3928181	-	6.74
34.84	11.42131	6.73149	20.3677239	-	6.73
144.8589	6.971513	6.730955	8.48251298	-	6.73
10.2275	7.206626	6.723292	9.38210706	-	6.72

66.7499	7.99755	6.718111	50.2973907	-	6.72
118.3255	15.24567	11.98456	6.71354442	-	6.71
10.6962	14.49379	6.713192	32.1543071	-	6.71
24.7008	14.97166	6.712043	27.180314	-	6.71
50.7109	6.703273	6.768268	37.9642937	-	6.70
5.2938	6.695438	7.972295	8.44170539	-	6.70
136.1412	9.889798	8.187355	6.69436952	-	6.69
1292.813	9.099867	6.694326	21.3903382	-	6.69
49.6694	6.694132	82.54561	122.481244	-	6.69
143.1683	8.543915	6.688236	27.717267	-	6.69
26.189	13.53695	6.685156	9.62400626	-	6.69
24.6007	9.969016	15.80752	6.68067169	-	6.68
106.2135	7.982156	6.678014	29.5063763	-	6.68
15.2858	8.402096	11.80581	6.67740648	-	6.68
25.5042	6.956857	9.450728	6.67715514	-	6.68
1333.662	8.605654	6.67403	18.5743558	-	6.67
21.2133	9.438454	6.665675	64.8559819	-	6.67
19.7789	6.663234	7.656556	14.5094773	-	6.66
312.4368	6.657244	9.638894	25.8166564	-	6.66
7.677	8.764725	7.882898	6.65625896	-	6.66
51.942	11.65787	6.648026	13.0996515	-	6.65
996.6202	6.813627	7.255486	6.63780857	-	6.64
19.6668	26.59487	6.63208	13.5312405	-	6.63
44.5797	11.29226	11.24204	6.62372111	-	6.62
42.7414	16.38159	9.481679	6.62256033	-	6.62
211.4835	7.637402	7.389184	6.61452406	-	6.61
128.1824	11.13827	6.612461	9.48494879	+	6.61
59.525	12.89699	6.61208	9.08901302	-	6.61
6.3238	6.590514	8.29931	11.9768968	-	6.59
245.0946	7.426466	6.74363	6.58352122	-	6.58
46.0664	12.80016	7.735609	6.57341359	+	6.57
26.1785	7.553061	6.546206	19.1835094	-	6.55
227.0895	7.287711	8.065841	6.52931774	-	6.53
12.556	12.74153	6.527284	19.3564431	-	6.53
70.0696	12.79244	6.51563	67.9771313	-	6.52
50.9943	13.43505	6.515611	34.4961986	-	6.52
14.814	8.056664	6.513961	13.0474011	-	6.51
22.1104	10.51804	6.510216	47.4037286	-	6.51
140.3733	8.699055	6.509106	21.227965	-	6.51
10.9035	6.60862	6.505975	10.8296877	-	6.51
254.7339	10.05735	6.502633	22.0081642	-	6.50
51.0143	11.09818	6.502238	37.687813	-	6.50
11.039	6.499383	18.01581	11.9262705	-	6.50
360.2915	10.98214	6.494826	80.1382467	-	6.49
23.9682	7.946309	6.489281	59.0840989	-	6.49
267.1835	6.48686	8.522761	25.2031413	-	6.49
6.1182	6.481746	6.64357	11.0734857	-	6.48
55.3939	9.320861	6.475415	19.0911924	-	6.48
37.1372	9.171452	6.474619	47.2629627	-	6.47
16.5269	14.0575	6.46412	13.816959	-	6.46
53.3622	11.00495	7.837583	6.46048139	-	6.46
20.509	10.81467	6.438707	32.3225657	-	6.44
210.6283	12.94368	7.470746	6.43234931	-	6.43



2412.918	9.718468	6.42562	9.83511765	-	6.43
308.8731	11.07835	6.425143	13.9554772	+	6.43
177.2545	6.417376	6.488833	31.3440759	-	6.42
34.1516	16.79443	10.35474	6.4166979	-	6.42
200.7462	6.694588	6.40986	25.1771117	-	6.41
18.3767	14.31968	9.824866	6.40340213	-	6.40
276.9858	10.04721	8.852045	6.40056458	-	6.40
220.7915	9.78118	8.198627	6.39537935	-	6.40
29.7078	14.81388	6.394847	7.81374252	-	6.39
314.0292	6.384343	7.722781	25.8070444	-	6.38
66.5898	7.658622	6.48302	6.38060934	-	6.38
16.2998	6.822077	6.377372	11.2863655	-	6.38
1232.051	6.376169	7.426066	20.9819901	-	6.38
163.8215	6.375743	7.379143	11.6478454	-	6.38
5.1464	7.214021	6.374781	7.22229131	-	6.37
54.5628	8.104633	6.351834	54.8189517	-	6.35
25.1126	6.350206	13.4305	10.9255473	-	6.35
80.8644	6.348007	14.31288	23.8345366	-	6.35
91.8515	6.666119	7.415552	6.3438866	-	6.34
136.4135	6.325612	8.262963	17.8039234	-	6.33
6.665	6.316047	8.936817	10.0908927	-	6.32
53.8044	8.711667	6.30346	11.6875107	-	6.30
83.2815	6.303169	7.49606	16.347202	-	6.30
18.4138	6.294822	18.17018	14.6922145	-	6.29
19.5246	6.292276	7.38434	7.73841718	-	6.29
13.0567	8.119243	6.288612	16.3034687	-	6.29
170.9515	6.952135	14.25937	6.28803784	-	6.29
11.7463	8.155452	6.287615	10.4507377	-	6.29
730.4635	8.45245	6.285233	6.55197118	-	6.29
609.644	7.422108	6.271055	7.79817238	-	6.27
663.1455	6.270486	7.422497	10.6315364	-	6.27
7.8058	6.269757	11.06689	11.0529991	-	6.27
2563.745	13.64583	11.03823	6.2584163	-	6.26
56.6729	13.71497	30.74364	6.25723406	-	6.26
224.0715	9.661441	6.248751	7.0213414	-	6.25
172.8215	8.538723	6.2447	7.02683115	-	6.24
6.6078	6.243883	9.016705	9.14074276	-	6.24
11.806	6.236823	9.694055	16.0562002	-	6.24
153.2915	8.874952	8.158434	6.23327712	-	6.23
5.6744	7.940924	6.232524	7.92860919	-	6.23
136.7775	6.231574	6.574781	30.889612	-	6.23
115.5435	8.2657	8.465079	6.22732997	-	6.23
116.4537	15.38244	12.07437	6.21463723	-	6.21
13.1454	6.214175	8.819994	18.3124211	-	6.21
129.7135	18.73043	15.16574	6.21342343	-	6.21
1502.785	7.646558	6.208331	6.5587	-	6.21
350.6091	6.205306	7.629947	16.6553429	-	6.21
20.5219	7.877531	6.205179	80.3784981	-	6.21
177.983	7.877971	6.199197	26.3896293	-	6.20
21.3367	6.195355	12.3903	20.0354319	-	6.20
15.7392	11.97735	13.24741	6.18889143	-	6.19
212.2455	6.188858	9.476012	20.1818908	-	6.19
54.4289	8.283852	6.185916	6.88578127	-	6.19

264.2211	7.399679	6.18534	27.8257092	-	6.19
123.5633	7.086948	6.177988	10.0799857	-	6.18
323.9335	6.176458	8.201689	24.3383457	-	6.18
65.9359	7.020838	6.170736	17.484604	-	6.17
572.2644	6.168925	6.372361	7.61179885	-	6.17
24.6971	14.42059	6.145237	19.992902	-	6.15
6.634	6.768351	8.782171	6.14354839	-	6.14
151.7595	6.14014	6.667429	27.3703821	-	6.14
206.3955	9.283117	6.135143	9.40402044	-	6.14
18.6577	10.36737	6.131942	27.1605235	-	6.13
232.4243	7.008737	6.125852	10.3115216	-	6.13
415.6715	6.12465	10.21798	13.6004477	-	6.12
91.0211	8.572952	6.27161	6.11778478	-	6.12
94.1731	9.276354	6.117478	25.7534614	-	6.12
101.8535	25.20414	8.844871	6.10614657	-	6.11
21.5363	8.531347	7.848968	6.10436797	-	6.10
16.5724	6.096936	7.411696	6.58208226	-	6.10
50.3118	7.914525	6.088246	46.4678962	-	6.09
28.1535	8.198853	10.17079	6.08043405	-	6.08
77.3892	8.160938	6.077362	77.7950864	-	6.08
65.9479	7.702024	6.073145	84.6116025	-	6.07
102.8435	8.768666	10.80949	6.06927224	-	6.07
1854.821	7.585501	6.484882	6.06610378	-	6.07
11.3528	10.44983	6.049128	16.1700462	-	6.05
206.6315	12.89672	6.047853	10.2346327	-	6.05
329.6385	12.99401	6.039157	15.8471146	-	6.04
8.2041	6.50576	6.617202	6.03646957	-	6.04
14.1676	10.22162	7.887155	6.03249668	-	6.03
35.4	7.844816	7.732748	6.02765537	-	6.03
8.8711	7.747299	6.069969	6.00537701	-	6.01
242.7755	8.089524	5.991165	6.62400242	-	5.99
322.3495	5.990117	7.471464	22.8935534	-	5.99
201.2531	10.46847	5.98777	41.0788182	-	5.99
115.9961	5.98677	7.228229	7.4491082	-	5.99
77.6175	7.147154	5.986744	19.9964235	-	5.99
265.7555	9.461691	5.98243	15.9245604	-	5.98
13.1551	5.980755	8.209522	8.00583044	-	5.98
9.0368	5.979578	10.14109	7.5460008	-	5.98
21.0433	10.54112	9.032413	5.97904321	-	5.98
7.4435	11.81207	5.972919	11.1739773	-	5.97
215.8895	9.151282	5.968963	9.42078934	-	5.97
51.1719	12.94532	10.71525	5.9677577	-	5.97
13.2057	11.37943	5.96596	31.880438	-	5.97
281.7221	5.965155	9.26374	30.477106	-	5.97
7.6469	5.955877	10.51708	8.71304712	-	5.96
13.9847	6.40951	5.954322	6.67400802	-	5.95
8.6579	8.271233	5.9534	7.42375172	-	5.95
26.0254	10.66533	5.946056	11.8805283	-	5.95
10.5161	7.719638	6.055556	5.94228849	-	5.94
161.0027	7.102056	5.926247	16.3896599	-	5.93
8.2195	7.845814	5.924889	7.51439869	-	5.92
10.8644	5.92032	11.86977	11.9442859	-	5.92
10.6013	6.039188	5.917772	8.05198419	-	5.92



18.9475	7.604481	6.334653	5.91273255	-	5.91
1069.506	7.113263	5.911159	8.42975653	-	5.91
11.4511	6.043802	5.9064	97.4618596	-	5.91
12.4498	5.906351	7.227299	9.35111407	-	5.91
36.9943	5.903037	9.110433	54.0214438	-	5.90
9.2205	5.900542	13.01425	23.618871	-	5.90
4590.76	6.434074	5.897277	7.0347265	-	5.90
65.5085	5.890539	10.16261	7.60486807	-	5.89
314.8283	5.889251	7.91969	15.8831576	-	5.89
133.7575	13.00004	6.28237	5.88724371	-	5.89
14.6302	18.71172	5.884141	110.503172	-	5.88
17.8865	11.83375	10.28194	5.86748665	-	5.87
20.6484	5.866635	6.432075	7.03243835	-	5.87
223.6775	8.136317	5.864752	9.58717842	-	5.86
268.5515	5.864145	8.707586	10.7784596	+	5.86
410.6715	5.845153	6.696968	9.65763512	-	5.85
21.4659	9.507595	5.84422	9.5668572	-	5.84
131.4423	8.676191	5.829093	15.8606697	-	5.83
208.1912	8.831011	5.824174	26.4288092	-	5.82
299.6741	5.822907	12.90997	45.7484831	-	5.82
41.1202	6.008734	5.812129	14.39627	-	5.81
32.4146	13.76912	12.14814	5.80119761	-	5.80
10.4134	6.460466	8.339968	5.79378493	-	5.79
48.4132	14.95705	10.91719	5.79109623	-	5.79
33.7321	8.267616	9.419157	5.79064748	-	5.79
321.2355	5.788974	7.659225	17.880681	-	5.79
82.6855	5.80785	5.786847	18.4876127	-	5.79
407.019	11.75932	8.178163	5.78332093	+	5.78
3444.372	9.748903	8.648816	5.77981803	-	5.78
3098.939	5.770637	5.899505	5.87392948	+	5.77
138.9535	8.470539	5.764511	8.89164721	-	5.76
18.0142	9.18044	5.753868	11.254094	-	5.75
38.0713	8.922079	8.702755	5.7486742	-	5.75
89.8455	7.078288	5.747324	20.0328731	-	5.75
51.2737	12.59015	5.743601	123.098928	-	5.74
7.4957	8.103321	5.742667	6.99252905	-	5.74
35.8882	5.739819	5.755497	15.9698592	-	5.74
155.0955	7.049151	5.738957	16.1480475	-	5.74
26.7918	6.035363	5.73674	121.673994	-	5.74
27.8062	10.67719	5.734091	45.8867267	-	5.73
27.7354	10.13991	5.73187	9.75567326	-	5.73
61.5306	5.72942	7.630274	14.0806883	-	5.73
340.2395	5.728833	7.499954	24.0020912	-	5.73
3121.53	7.478863	6.20238	5.72686319	-	5.73
591.2535	6.039937	5.722077	8.34087156	-	5.72
307.6015	8.482953	5.720813	76.2893712	-	5.72
583.1295	9.464718	9.045665	5.71716488	-	5.72
121.3635	6.061406	5.69502	12.2596835	-	5.70
12.668	7.248685	6.763441	5.6913167	-	5.69
36.08	13.10291	5.690714	30.1909867	-	5.69
20.3487	15.03485	5.684811	78.0395554	-	5.68
5.8049	7.331877	5.684342	11.9425141	-	5.68
17.9306	5.682213	7.082363	5.69007172	-	5.68

7.5457	6.175911	6.511216	5.66608797	-	5.67
22.3678	10.06637	6.946518	5.66449986	-	5.66
17.2011	11.42778	13.43666	5.66123678	-	5.66
164.2115	5.6571	14.58432	13.3897669	-	5.66
123.0631	7.145174	5.822422	5.6537248	-	5.65
2240.244	8.422881	6.434388	5.64646086	-	5.65
69.6237	5.641556	6.184877	14.9889118	-	5.64
331.6026	5.63789	6.110072	14.8047497	-	5.64
37.9397	12.03523	5.637022	11.9637609	-	5.64
3407.438	9.587671	8.104465	5.63608797	-	5.64
108.0131	5.635233	5.80773	6.91732299	-	5.64
233.9525	5.635033	7.262505	25.8855174	-	5.64
35.7659	7.512861	5.634063	6.90487308	-	5.63
100.3735	6.04588	5.632875	17.2567211	-	5.63
261.6655	5.628515	5.890404	6.61661472	-	5.63
52.7121	5.788083	5.619341	467.096691	-	5.62
24.9319	5.614739	11.26449	5.72353491	-	5.61
321.7394	8.337153	5.614362	17.3494396	-	5.61
132.6909	5.611034	6.637228	81.3801768	-	5.61
343.4836	6.239011	5.605719	7.67443191	-	5.61
16.9969	10.37032	5.603847	35.7463714	-	5.60
128.4976	7.851001	5.603604	17.9907438	-	5.60
229.9895	5.777034	5.598902	15.8106935	-	5.60
45.5549	9.146152	5.595091	20.7376484	-	5.60
375.3608	6.508185	5.594914	16.6285491	-	5.59
64.3181	10.37793	5.590758	212.496538	-	5.59
78.5975	6.391732	5.587764	19.0537803	-	5.59
99.6475	10.15996	5.583883	12.0166336	-	5.58
9.8953	12.04774	5.583824	19.8161349	-	5.58
253.5524	5.581308	7.258843	26.8631395	-	5.58
276.5569	5.702558	5.581146	14.3083836	+	5.58
112.1555	7.428149	5.57887	41.1192273	-	5.58
13.8397	11.87205	5.577148	11.9806499	-	5.58
186.5696	6.23376	5.558399	8.84476088	-	5.56
9.3849	5.548021	10.6131	12.331458	-	5.55
5.3788	5.54754	8.231595	7.11151186	-	5.55
225.9439	6.51738	5.542543	25.6303587	-	5.54
660.3395	5.863079	5.53812	19.8696633	-	5.54
41.4686	6.974731	5.533145	16.0525988	-	5.53
211.2755	12.1832	12.23073	5.53288479	-	5.53
61.8707	7.24168	5.53228	8.6645779	-	5.53
8.6134	6.550865	5.531786	11.181357	-	5.53
29.5039	8.366473	5.529263	29.7748942	-	5.53
14.663	6.410391	7.391711	5.52571097	-	5.53
35.4157	14.63438	13.39302	5.5255014	-	5.53
200.1805	7.271487	5.524518	9.13367086	-	5.52
715.001	5.560003	5.523796	12.8909883	-	5.52
303.9261	7.335104	5.523657	17.2506037	-	5.52
403.4935	6.823745	5.520024	11.7447679	-	5.52
134.9355	6.480454	5.506593	8.34502781	-	5.51
10.6894	6.021437	5.503261	9.41002301	-	5.50
24.556	5.497773	11.53973	51.7424458	-	5.50
251.5861	14.19157	5.496965	6.35257472	-	5.50



18.4199	5.490539	8.212062	10.0766834	-	5.49
431.7092	8.147798	5.489164	10.9420033	-	5.49
42.6972	10.82079	5.483732	12.330024	-	5.48
7.1403	63.556	5.475257	100.247819	-	5.48
27.6876	8.392228	9.385591	5.47218249	-	5.47
16.3725	22.89234	5.467243	17.6504199	-	5.47
115.3264	7.001039	5.466229	10.9303811	-	5.47
30.1257	7.146814	7.234765	5.46020507	-	5.46
7.0679	5.590893	5.457899	6.82038512	-	5.46
18.6263	8.483284	5.454651	149.019021	-	5.45
35.7075	17.27681	5.452846	9.47015333	+	5.45
3451.332	7.157484	7.405121	5.45153641	-	5.45
76.4265	5.450672	5.631484	6.92679241	-	5.45
78.0035	7.776912	5.448364	50.3878095	-	5.45
23.3146	6.929922	5.446277	8.3357853	-	5.45
57.9561	12.01943	12.59845	5.4432838	-	5.44
163.9555	5.814334	5.442904	6.63031005	-	5.44
740.3195	12.62338	5.437752	12.9040144	-	5.44
11.3777	8.960854	5.430418	10.3110031	-	5.43
182.5035	5.426566	16.66628	12.2937012	-	5.43
291.0513	7.230434	5.905888	5.42607781	-	5.43
75.2782	5.420258	5.66919	9.96014251	-	5.42
21.2671	17.88239	5.412338	11.2564242	-	5.41
131.7782	6.568702	5.410476	6.24506254	-	5.41
572.0635	8.057411	5.40757	7.3416771	+	5.41
60.371	5.40387	6.391329	10.3745424	-	5.40
87.6206	6.310444	5.403441	19.6954449	-	5.40
194.4888	7.747316	5.398362	7.64955874	-	5.40
27.2837	6.235404	5.397214	7.41080572	-	5.40
186.2661	5.390477	7.820437	51.8922096	-	5.39
112.0775	5.390018	17.87977	19.9039549	-	5.39
23.1979	5.386202	7.824338	5.84878373	-	5.39
66.6223	9.081859	5.385041	11.2939286	-	5.39
12.606	5.377351	7.1262	9.05422021	-	5.38
723.5295	6.653078	5.37434	7.93929964	-	5.37
8.1436	5.372528	5.735316	7.81904809	-	5.37
169.9905	5.794676	5.370938	23.782879	-	5.37
30.6559	6.236865	5.366681	14.9060866	-	5.37
34.2851	5.366458	11.71659	5.4146991	-	5.37
8.7482	7.67889	5.363418	9.88586223	-	5.36
35.6515	8.737876	12.65887	5.35953606	-	5.36
23.688	5.35752	7.607661	6.04742908	-	5.36
148.724	7.802009	5.35504	17.3460726	-	5.36
317.8355	11.62511	9.243125	5.35417567	-	5.35
96.2746	8.898026	5.40179	5.35401342	-	5.35
226.6855	8.483121	6.326621	5.35307949	-	5.35
204.2152	6.965156	5.344474	11.2558884	-	5.34
62.9343	23.72362	10.03159	5.33995611	-	5.34
107.7375	9.328956	11.13154	5.33847917	-	5.34
71.3076	7.512203	5.405787	5.33541306	-	5.34
4842.644	11.14311	11.39321	5.33519544	-	5.34
10.0934	5.529159	5.333231	6.91437969	-	5.33
22.0631	6.647434	5.331129	11.4540341	-	5.33

92.8567	7.151836	5.330101	26.1760271	-	5.33
671.4395	5.850637	5.329465	20.4937504	-	5.33
6.1312	5.385911	5.625196	5.32582529	-	5.33
34.7158	7.527036	5.321472	82.0130747	-	5.32
62.8475	6.80831	5.312078	25.3332829	-	5.31
393.2978	5.594481	5.29817	9.64978065	-	5.30
37.8437	10.11863	11.30342	5.29798883	-	5.30
65.009	5.296171	5.88755	8.60056454	-	5.30
15.0394	7.348995	5.295219	14.4720867	-	5.30
16.3578	9.454593	10.07548	5.29464842	-	5.29
14.4268	5.290547	5.530063	8.68366512	-	5.29
219.4363	5.325692	5.287503	35.9681416	-	5.29
1134.102	7.930122	7.779214	5.28716654	-	5.29
82.3975	6.113266	5.286672	73.1309785	-	5.29
34.8471	7.958824	5.272334	7.91456104	-	5.27
146.2784	8.353894	5.271281	9.06360064	-	5.27
250.5148	8.01033	5.26486	10.5353915	-	5.26
187.4195	6.414032	5.25785	6.34213356	-	5.26
16.6188	7.780637	5.257086	6.30487761	-	5.26
1437.748	6.302714	5.256641	5.44072134	-	5.26
436.3866	12.02365	10.54231	5.25313793	-	5.25
48.3598	5.478203	6.274789	5.24728183	-	5.25
82.5884	6.012914	5.244977	55.8960278	-	5.24
67.2958	8.301999	7.732841	5.23966577	-	5.24
39.9801	5.80311	5.231646	24.5507515	-	5.23
175.5566	9.623253	5.228625	24.5594498	-	5.23
271.8319	32.0372	17.86053	5.21951802	-	5.22
332.7082	5.215526	6.9826	6.34464885	-	5.22
263.2155	5.2134	8.190284	22.0220656	-	5.21
32.8778	5.781634	5.210379	31.0044164	-	5.21
99.9505	9.913866	8.98458	5.20789291	-	5.21
110.3736	13.36137	5.207119	16.8843229	-	5.21
1101.632	6.753755	5.205509	13.4568372	-	5.21
8.6166	5.204144	6.264753	6.25879117	-	5.20
19.656	7.886061	5.192101	10.9612078	-	5.19
171.6795	5.186716	6.46902	7.32007898	-	5.19
10.1108	6.142661	5.186212	8.06405032	-	5.19
42.6211	5.694838	5.184835	18.3597678	-	5.18
10.1773	6.658174	5.184461	7.33077535	-	5.18
1438.516	6.764941	5.180553	8.3719483	-	5.18
70.5857	11.88821	5.170094	12.7917269	-	5.17
80.7263	5.454232	13.01298	5.16864392	-	5.17
57.5923	6.273223	5.163477	5.99023654	-	5.16
319.5346	5.149969	5.856864	19.7124365	-	5.15
175.9051	7.013033	5.143056	19.5552687	-	5.14
1484.948	13.71581	9.365509	5.13327205	-	5.13
147.5375	8.398935	7.810382	5.12651699	-	5.13
62.2704	5.120721	8.481784	6.13294278	+	5.12
99.2355	17.44383	5.107002	11.5616508	-	5.11
170.1395	5.099974	7.794752	24.6588264	-	5.10
11.6149	5.099679	6.708042	6.41950426	-	5.10
185.051	5.402233	5.091021	59.6643104	-	5.09
28.2057	9.912823	5.088038	450.960107	-	5.09



897.9992	8.230811	7.658658	5.07753014	+	5.08
187.6055	5.076401	8.160672	34.1881102	-	5.08
45.9068	5.075943	7.870572	31.0530357	-	5.08
6.4024	5.368025	5.073443	6.67129514	-	5.07
10.4742	5.067453	5.229031	15.2702354	-	5.07
382.2778	8.554588	5.615231	5.06709649	-	5.07
217.2514	6.073759	5.066617	54.096045	-	5.07
13.0426	5.389511	5.065549	10.7748072	-	5.07
8.7965	5.063661	8.099791	8.7982152	-	5.06
11.8532	13.87657	5.06046	21.6746111	-	5.06
10.3734	5.399834	5.059401	204.68371	-	5.06
14.0515	7.595645	5.058341	25.3450165	-	5.06
47.0977	9.625679	5.725536	5.05781599	-	5.06
1131.867	7.044122	5.050249	9.77500312	-	5.05
63.6558	5.04975	7.646506	28.7818156	-	5.05
42.1775	7.793135	5.044576	15.3624942	-	5.04
7.8691	11.92974	5.035309	177.450954	-	5.04
8.3236	5.032659	5.358948	5.10418569	-	5.03
2043.403	5.413104	5.03092	5.27724326	-	5.03
14.0041	6.319316	5.027456	6.15844645	-	5.03
5.3329	5.022264	5.319115	6.00234394	-	5.02
981.5415	5.059198	5.021005	5.8439745	-	5.02
29.2299	5.016763	9.412506	5.12150914	-	5.02
10.9444	5.015698	5.31987	9.41481488	-	5.02
13.6609	5.012551	8.184814	7.86445256	-	5.01
344.1811	10.78667	5.00923	15.4164929	-	5.01
180.4285	11.70562	5.007613	10.6601313	-	5.01
734.6888	4.993349	9.269154	6.51608014	-	4.99
39.276	8.523187	4.987645	86.6675705	-	4.99
7.0661	7.961574	4.984736	9.40941962	-	4.98
118.893	5.563453	4.980905	8.98616151	+	4.98
12.9443	4.97626	6.164034	5.50416786	-	4.98
1930.806	5.324134	4.97413	5.35923457	-	4.97
19.1336	5.31317	4.969578	100.352955	-	4.97
30.3595	7.215157	4.968815	19.1874537	-	4.97
143.3695	6.897042	4.966687	34.0908317	-	4.97
220.1018	12.94595	17.30907	4.96432787	-	4.96
129.607	4.963351	5.914314	5.50670488	-	4.96
36.3761	9.359675	4.963284	6.55527943	-	4.96
298.2577	5.001731	4.962381	8.52714783	+	4.96
35.9428	11.65276	4.952925	13.3511997	-	4.95
49.9041	26.92022	20.7451	4.95226645	-	4.95
26.0058	12.88918	6.473983	4.95027263	-	4.95
81.402	7.436491	4.949795	20.3984607	-	4.95
304.3643	5.467682	4.942501	9.96384103	-	4.94
46.9793	6.498605	4.941076	19.5602212	-	4.94
162.7546	7.111311	4.933961	16.4629725	-	4.93
336.9755	4.933464	7.41063	15.3236479	-	4.93
7.975	4.932983	7.808754	9.40056426	-	4.93
7.6452	4.93192	7.692821	11.380147	-	4.93
562.0035	4.931165	5.290038	9.44017519	-	4.93
634.1055	4.922934	5.795312	5.86310417	-	4.92
30.2902	5.084169	4.921665	5.54561871	-	4.92

10.3018	4.921562	6.985253	7.25091732	-	4.92
21.8986	7.432066	4.921131	57.4706831	-	4.92
127.2575	9.680433	6.338466	4.91349822	-	4.91
108.1795	6.462111	4.913245	17.8095064	-	4.91
60.0931	6.601072	14.81314	4.90864176	-	4.91
11.8975	4.9059	5.965831	6.27942845	-	4.91
35.3866	8.526273	4.904312	33.3704707	-	4.90
216.3381	7.544521	4.903767	5.68935615	-	4.90
854.9955	6.8224	6.59305	4.90249025	+	4.90
15.2938	4.890543	16.8876	58.3122246	-	4.89
37.5411	8.543089	4.886021	16.6145238	-	4.89
59.8052	4.876567	5.639974	22.3979437	-	4.88
296.4435	34.6041	41.84986	4.87623274	-	4.88
16.7793	4.872638	5.869368	34.2421615	-	4.87
122.8249	6.878943	4.86893	13.9320488	-	4.87
93.448	4.865802	5.549158	21.0307069	-	4.87
131.2883	10.35586	8.92891	4.86458809	-	4.86
38.6495	6.842139	4.863241	6.25792054	-	4.86
184.2358	8.184101	4.858275	47.7280908	-	4.86
337.4077	6.072482	4.85705	9.49244371	-	4.86
610.4913	4.852695	5.574264	5.56045958	-	4.85
15.5152	7.661849	4.849395	6.717896	-	4.85
68.4657	6.542033	4.844999	8.96933063	-	4.84
8.5793	4.843655	6.185111	5.49099577	-	4.84
73.8035	8.430161	4.838897	6.91205024	-	4.84
44.2466	5.579649	7.353646	4.83529808	-	4.84
29.9006	7.291395	4.827855	9.04702581	-	4.83
9.8236	5.006895	4.920338	4.82687609	-	4.83
37.3274	4.824944	5.63018	4.89371079	-	4.82
32.1779	7.329236	4.822783	29.3263979	-	4.82
26.9703	7.01184	8.174992	4.82210061	-	4.82
17.8387	11.05854	4.821239	10.4456883	-	4.82
490.8515	7.067294	5.440889	4.82097233	-	4.82
14.6468	4.820387	5.082107	17.776272	-	4.82
94.6855	6.714679	4.811737	37.1254131	-	4.81
457.2027	6.526748	4.810519	35.2819373	-	4.81
494.3548	7.511685	4.809385	15.4687004	-	4.81
6.1483	5.128807	4.804235	6.93798286	-	4.80
8.7482	4.803131	6.094219	7.06392172	-	4.80
9.882	16.61369	4.802403	476.787644	-	4.80
90.3215	5.722945	9.236092	4.79659328	-	4.80
11.3282	4.793277	4.990953	6.22831518	-	4.79
435.2915	8.855273	4.791522	16.2912444	+	4.79
291.5359	4.972134	4.789666	21.5604305	-	4.79
509.6995	6.171367	6.368737	4.78886775	-	4.79
20.7961	4.782893	10.99583	25.2058559	-	4.78
26.6698	4.782071	5.228998	12.5987259	-	4.78
35.585	8.989291	4.781879	9.6317409	-	4.78
70.3276	4.928471	4.780344	6.21931503	-	4.78
16.1665	8.356147	4.779089	8.4817493	-	4.78
57.5623	4.865463	4.779036	12.6193967	-	4.78
255.3424	7.852898	4.777035	10.20515	-	4.78
56.9943	5.114863	8.504728	4.77653906	-	4.78



369.1442	7.345582	4.768698	14.807773	-	4.77
29.3871	4.760383	7.685943	9.16904016	-	4.76
14.2579	5.6119	5.714846	4.75889156	-	4.76
20.7069	5.021014	5.467521	4.75872294	-	4.76
450.3422	6.799089	4.746871	24.6170277	-	4.75
167.7495	5.722326	4.739207	12.0245098	-	4.74
18.8215	7.116989	4.727044	13.1401589	-	4.73
34.494	4.725414	4.915325	6.77043544	-	4.73
534.5915	4.871348	4.725122	5.34143023	-	4.73
66.1185	8.382475	4.724318	19.0541452	-	4.72
1003.427	5.546057	5.392284	4.71982361	-	4.72
13.4318	5.911882	4.962635	4.71368692	-	4.71
527.786	6.151052	4.711434	4.92206633	-	4.71
291.8988	5.833168	4.704498	13.5072275	-	4.70
390.1312	5.597865	4.703985	10.3936832	-	4.70
418.8627	7.883154	4.694392	4.84333912	+	4.69
551.1215	5.721399	4.686412	17.1262117	-	4.69
242.3829	5.761611	4.684182	35.719729	-	4.68
107.3548	5.114629	4.684124	10.4586986	-	4.68
197.7355	7.334067	6.086217	4.68069821	-	4.68
14.6332	4.678667	7.153283	6.15214034	-	4.68
231.9835	8.768776	10.97761	4.67667528	-	4.68
10.4806	4.706077	4.672399	9.00825334	-	4.67
296.4526	4.670966	8.108446	24.0270991	-	4.67
237.0935	4.670219	5.280865	15.5097187	+	4.67
68.0513	5.215497	7.15158	4.66517906	-	4.67
156.0303	4.658094	7.016102	10.6478126	-	4.66
330.3995	5.694271	4.655327	16.9529055	-	4.66
94.232	10.84212	4.646592	68.1985472	-	4.65
1189.791	7.397987	7.768293	4.64493341	-	4.64
1487.885	5.646234	5.825065	4.64406588	-	4.64
400.8239	7.078206	5.450035	4.64151988	-	4.64
68.7303	7.764517	4.639788	65.4156827	-	4.64
17.6909	4.636245	7.094555	8.42645089	-	4.64
24.6617	4.634861	7.978657	6.44237015	-	4.63
634.2955	8.499654	5.593793	4.63258529	-	4.63
642.8959	6.398878	4.629423	9.09810469	-	4.63
7.3948	4.628714	5.303607	4.94450154	-	4.63
1402.272	5.973454	4.627733	10.4442053	-	4.63
41.5529	9.633567	7.39251	4.62534264	+	4.63
351.6115	6.550785	4.6247	5.36123392	-	4.62
71.6796	7.335624	4.62155	102.17508	-	4.62
22.1277	4.784503	9.780509	4.59842189	-	4.60
32.0024	5.718853	4.594678	6.47531123	-	4.59
20.5674	6.578752	5.198409	4.59451365	-	4.59
26.2285	4.593167	6.554491	5.07888366	-	4.59
1530.344	7.131246	4.589199	7.79625065	-	4.59
27.1479	10.0852	4.850271	4.58821124	-	4.59
3116.735	4.715908	4.583326	5.54164041	-	4.58
17.5065	7.295421	4.582886	13.2119784	-	4.58
190.7315	5.466139	4.581368	23.733032	-	4.58
9.0897	5.166605	4.579867	4.62486111	-	4.58
491.7474	7.135361	6.529497	4.57784993	-	4.58

64.5881	4.57277	5.650226	24.0970984	-	4.57
7.9647	6.420366	4.57151	6.07003403	-	4.57
32.2021	9.904538	10.69626	4.56714003	-	4.57
187.7826	4.719878	4.566327	6.92427307	-	4.57
10.5239	6.700804	4.562347	4.80165148	-	4.56
130.6695	7.169361	11.28475	4.56062968	+	4.56
8.5036	4.559143	4.703031	6.88868244	-	4.56
172.4258	4.554226	5.062759	16.423008	-	4.55
54.6647	4.72535	4.543558	14.6220413	-	4.54
62.2984	8.957648	4.537021	4.90246138	-	4.54
3109.38	5.924902	4.536114	6.33121801	-	4.54
69.8585	4.535924	5.978023	9.85714695	-	4.54
223.5275	4.535206	4.560843	28.760289	-	4.54
17.0186	23.50426	4.526607	53.538452	-	4.53
10.4231	4.973498	4.52644	5.21241281	-	4.53
28.2181	10.01307	10.57808	4.52083946	-	4.52
116.4293	8.373646	9.31862	4.51720057	-	4.52
48.6456	9.019663	5.246221	4.51598706	-	4.52
108.2169	4.644959	4.512945	31.6555686	-	4.51
39.7456	9.877094	4.512571	10.6853161	-	4.51
534.2375	7.513177	4.512372	6.26717424	-	4.51
514.697	5.73094	4.510105	20.6702242	-	4.51
6.2784	4.508502	5.030513	4.81850471	-	4.51
33.7061	4.507927	5.668112	80.2454007	-	4.51
867.1126	4.712386	4.505208	5.27855264	-	4.51
234.5126	6.121176	4.503928	27.167229	-	4.50
10.6254	8.612869	4.503676	8.07155495	-	4.50
138.2286	4.493729	7.053855	15.8288769	-	4.49
593.0175	5.11974	4.492829	6.03174021	-	4.49
15.701	4.492278	7.685423	7.02089676	-	4.49
10.5277	6.271913	4.489847	5.8303998	-	4.49
23.4741	5.23313	4.489602	10.2120507	-	4.49
8.8724	7.410272	4.489144	6.90012849	-	4.49
315.1588	6.19256	4.471852	14.837217	-	4.47
31.2631	6.500157	4.47086	15.5974775	-	4.47
101.5523	8.345785	4.468364	9.34078106	-	4.47
12.4987	6.065257	4.46588	6.50374839	-	4.47
183.1542	6.441897	4.464033	8.27616184	-	4.46
617.1595	4.858023	4.463732	5.71947365	-	4.46
69.5127	6.911182	6.001587	4.46062662	-	4.46
14.5799	4.915433	4.457459	14.7664593	-	4.46
1712.8	5.094126	4.452812	6.13322681	-	4.45
11.6604	4.59287	5.207379	4.44929848	-	4.45
1309.36	5.194963	4.447578	9.56795953	-	4.45
263.1159	4.447036	6.86783	26.462636	-	4.45
403.6844	6.319559	4.446716	8.46317445	-	4.45
5.9215	5.645032	4.433863	5.08791691	-	4.43
17.046	4.611312	4.431417	9.0188666	-	4.43
1310.54	5.107115	5.260687	4.42796795	-	4.43
114.4065	6.861885	4.421307	23.6633714	-	4.42
42.1769	7.306074	4.420953	24.5253563	-	4.42
39.7743	6.361436	4.420115	10.0067506	-	4.42
131.8227	6.129766	4.416568	8.04792725	-	4.42



36.8401	4.414573	10.64072	39.3351674	-	4.41
43.4226	5.049155	4.411507	406.332129	-	4.41
2827.494	6.789876	5.236087	4.41034796	-	4.41
8.3613	4.408313	5.533919	6.17869231	-	4.41
8.8445	6.979527	4.406811	7.59339703	-	4.41
33.6859	11.10648	4.404415	7.51474949	-	4.40
8.8149	5.180366	4.403405	4.82681596	-	4.40
125.3375	4.88306	4.402887	5.95202473	-	4.40
2288.522	5.935847	4.394942	9.04547041	-	4.39
9.1736	4.856449	4.841979	4.39333522	-	4.39
517.8805	6.410931	4.392063	18.0236456	-	4.39
7.9568	4.391455	5.96678	17.5959557	-	4.39
15.8854	4.387936	12.69004	63.6007592	-	4.39
902.09	6.648694	4.387604	14.421537	-	4.39
44.0399	17.39734	4.3873	6.25318177	-	4.39
73.0156	5.742792	4.386527	4.93658205	-	4.39
45.3679	6.498521	4.386065	7.88093564	-	4.39
19.9291	6.981143	4.379998	18.4450627	-	4.38
60.1243	5.568983	4.379653	6.62520811	-	4.38
73.2896	4.378448	7.980528	14.788558	-	4.38
107.3325	5.221942	4.373036	5.92306617	-	4.37
16.9751	8.726198	4.372168	11.9081184	-	4.37
233.1026	6.88836	4.371386	6.07585844	-	4.37
16.966	4.370151	4.775821	6.6631793	-	4.37
449.6411	8.597549	4.369094	14.4032685	+	4.37
11.3061	8.381578	4.366927	9.63457779	+	4.37
11.811	5.520976	4.38303	4.36213699	-	4.36
50.5292	11.12446	4.356355	8.66935356	-	4.36
1018.054	5.446973	4.935061	4.35406999	-	4.35
94.9733	4.352768	5.039431	23.2678932	-	4.35
401.8456	4.814102	4.349349	13.9896505	-	4.35
153.6715	4.415789	4.348641	10.5796163	-	4.35
13.7536	15.36938	4.348128	154.213988	-	4.35
100.0295	20.38746	17.55851	4.3396578	-	4.34
19.8264	5.342344	6.544609	4.3392396	-	4.34
1567.448	4.406667	4.333635	5.72305853	-	4.33
109.7535	11.69558	5.822264	4.32788658	-	4.33
22.2667	5.163559	4.327856	4.39308474	-	4.33
22.1217	4.325827	9.114929	5.4755828	-	4.33
8.4742	4.814017	4.319179	6.7454863	-	4.32
45.6624	8.217357	4.31381	5.24675663	-	4.31
5.3551	5.876538	4.306761	6.66357304	-	4.31
178.1516	4.300854	7.776801	8.59353943	-	4.30
21.6766	9.107485	4.295871	14.4353589	-	4.30
19.8109	8.405376	4.29222	36.235325	-	4.29
30.5991	6.195621	4.292169	24.4177607	-	4.29
590.2405	5.050825	4.290852	7.79034597	-	4.29
78.1542	8.040557	4.284057	10.8754654	-	4.28
13.0688	7.476648	4.283808	44.6314505	-	4.28
19.3926	16.88184	4.283442	10.5134794	+	4.28
28.6897	4.282417	5.509175	7.04392517	-	4.28
120.3595	4.280735	4.508718	16.6208725	-	4.28
1295.75	5.62908	4.509442	4.2753574	-	4.28

134.6275	4.274933	6.061265	5.87987373	-	4.27
22.9655	6.179891	4.273229	5.87296162	-	4.27
5.4644	4.594406	4.578173	4.26826367	-	4.27
411.7125	11.17693	7.694407	4.26821022	+	4.27
83.7157	6.694461	4.264275	7.71273967	-	4.26
1740.421	7.570859	4.259744	5.27672778	-	4.26
970.5455	8.337275	18.29454	4.25381324	-	4.25
52.7191	5.999387	4.232304	4.5890294	-	4.23
50.7779	12.58422	13.93918	4.22917056	-	4.23
40.8944	6.036659	4.227016	5.7110778	-	4.23
8.1076	4.955653	4.226714	5.87843505	-	4.23
117.6214	6.340139	4.223515	7.40343424	-	4.22
41.3181	4.222128	6.602615	6.82222803	-	4.22
26.1102	6.923016	4.221639	47.3469947	-	4.22
27.6876	4.527494	4.221381	8.81858666	-	4.22
10.8377	4.22065	4.861339	9.65176191	-	4.22
149.5751	4.216799	6.292542	19.7042288	-	4.22
8.7325	6.865916	4.211962	19.5231033	-	4.21
14.6526	6.735964	4.211928	6.1794835	-	4.21
10.0569	4.951444	4.59056	4.2029353	-	4.20
380.2796	5.419592	4.197943	11.0547581	-	4.20
62.5192	6.080858	4.19637	7.8170466	-	4.20
55.142	8.225255	4.196109	8.90978746	-	4.20
6.7503	4.187633	7.121115	6.94378028	-	4.19
1435.691	21.92812	11.48701	4.18639352	-	4.19
11.4704	4.186047	12.1391	8.56321488	-	4.19
11.7592	10.09721	4.1846	20.8161695	-	4.18
13.5934	5.451277	4.407212	4.18444245	-	4.18
11.2035	5.718449	4.181804	7.78139867	-	4.18
23.2527	5.842794	4.673667	4.18117036	-	4.18
267.9901	6.846391	4.179558	17.1384659	-	4.18
17.1072	10.96399	4.179345	15.2657068	-	4.18
231.9694	4.178947	8.096905	21.0850806	-	4.18
314.9419	4.172541	5.703244	18.8684627	-	4.17
110.5819	7.117603	4.162221	36.2356769	-	4.16
14.5281	4.914701	4.156324	30.5072033	-	4.16
53.0326	5.470609	4.154913	38.8450406	-	4.15
335.3018	5.886373	5.179038	4.15466126	-	4.15
48.5855	4.152499	5.640058	5.10048265	-	4.15
1102.178	5.369348	4.15201	8.31718637	-	4.15
34.6842	8.836195	4.150242	11.0910876	+	4.15
34.7764	5.488501	4.149461	7.53880505	-	4.15
21.6514	4.331783	4.149006	19.1381389	-	4.15
1415.958	5.328268	4.146082	12.6329282	-	4.15
3736.354	6.590279	4.143468	4.74351643	-	4.14
87.0755	6.604521	4.138555	8.59614358	-	4.14
593.2224	4.269132	4.133704	4.52835817	-	4.13
8.0642	10.66417	4.130458	15.6558617	-	4.13
68.1917	6.745264	4.125861	8.41692757	-	4.13
26.3799	4.125371	7.35314	22.245562	-	4.13
14.2294	5.781023	4.124666	14.7934207	-	4.12
296.4592	8.222187	4.123216	30.5366118	-	4.12
593.2635	5.231823	4.11929	37.7704924	-	4.12

199.4495	5.2395	4.118499	10.7387158	-	4.12
78.5775	7.173639	5.907346	4.10841271	-	4.11
429.0735	4.723284	4.315723	4.10836255	-	4.11
407.0695	10.96237	8.3085	4.10707631	-	4.11
39.7082	4.106305	4.222594	5.21870797	-	4.11
79.5835	6.030163	4.105063	12.2217734	-	4.11
163.6558	4.103606	5.339458	46.5651783	+	4.10
190.5174	4.208016	4.100585	17.5237931	+	4.10
9.592	4.098304	7.056097	5.05785029	-	4.10
16.6453	4.097716	8.635621	6.10837894	-	4.10
638.9861	6.078933	4.091514	21.7403782	-	4.09
382.9935	4.325722	4.090808	15.9284541	-	4.09
18.2006	7.663365	4.090598	16.4471446	-	4.09
52.7056	6.435788	4.088999	36.9205834	-	4.09
182.9856	4.486898	4.082722	18.3302211	-	4.08
70.1016	4.458667	6.703195	4.08229627	-	4.08
56.591	4.35467	4.08204	91.9826032	-	4.08
456.3396	4.081122	4.53469	10.7276846	-	4.08
535.9946	6.356244	4.081093	18.0952896	-	4.08
233.2466	10.82461	4.080647	10.9434573	-	4.08
222.5856	6.90765	4.079056	17.9320917	-	4.08
118.4464	4.830002	5.393197	4.07736748	-	4.08
51.8745	8.697539	4.075095	29.5327666	-	4.08
1391.79	5.037531	4.074268	6.54555707	-	4.07
46.0381	7.694483	10.35913	4.07359774	-	4.07
86.5215	4.376868	4.071855	11.2112192	-	4.07
8.8711	5.553678	4.071294	5.86175333	-	4.07
327.4998	7.825583	4.408725	4.06728645	-	4.07
10.0587	4.72865	4.063678	26.582113	-	4.06
34.3991	7.953596	4.060395	11.521848	-	4.06
1023.93	6.598945	5.832818	4.05941376	-	4.06
14.7127	4.059291	4.446157	5.89120964	-	4.06
107.0195	8.18281	4.912389	4.05843141	-	4.06
41.3746	4.055316	4.610085	6.61400714	-	4.06
2373.331	10.42033	10.39793	4.05162791	-	4.05
225.7795	6.765436	4.049889	52.1802533	-	4.05
52.4395	4.375913	4.048978	12.087558	-	4.05
450.9255	5.268788	4.048874	14.7208668	-	4.05
155.8415	4.048078	4.550316	6.89436062	-	4.05
2152.274	15.74632	13.5325	4.04688106	-	4.05
441.1095	6.943842	9.250469	4.04439805	-	4.04
2078.968	6.279905	4.043043	4.89361628	-	4.04
3640.694	5.221059	5.07086	4.04277361	-	4.04
37.3067	5.355567	4.041734	5.46775512	-	4.04
251.4635	4.598717	4.037819	9.99021926	-	4.04
30.9754	4.037627	4.650164	6.95873177	-	4.04
25.8397	5.785983	4.036357	13.4226055	+	4.04
25.3759	10.14732	4.03373	6.82543279	-	4.03
12.5037	4.032274	7.017568	7.3861337	-	4.03
317.1728	5.43399	4.03206	5.29398769	-	4.03
9.1981	4.023981	4.050859	5.677042	-	4.02
1540.146	7.397856	4.021194	9.08645854	-	4.02
24.125	4.226476	4.018928	18.1892104	-	4.02

13.7755	8.251386	4.015326	6.54636129	-	4.02
162.3423	7.062359	9.900481	4.01477311	-	4.01
749.4136	5.35634	4.012331	8.51673642	-	4.01
145.0153	4.77822	4.006693	5.81972592	-	4.01
596.5675	5.09625	4.003435	8.5322293	-	4.00
37.8459	4.001765	5.07029	6.00771814	-	4.00
58.4196	4.425366	3.998809	16.3107502	-	4.00
960.1033	6.121372	3.997266	8.96482649	-	4.00
153.7054	5.484581	3.993497	11.045191	-	3.99
62.0665	7.479861	3.992963	26.9921052	-	3.99
395.7046	7.418224	5.152807	3.9876754	+	3.99
27.08	5.31377	3.984513	6.79222674	-	3.98
58.6137	5.209239	3.984039	8.97748308	-	3.98
58.104	7.696471	3.979768	26.7873726	+	3.98
15.9337	3.975432	4.802603	19.5959758	-	3.98
8.6125	7.643292	3.970225	6.87714369	+	3.97
320.9555	6.036599	4.878803	3.96887886	-	3.97
257.5175	4.230302	3.967915	37.4975751	-	3.97
49.6256	8.304668	7.493179	3.96790165	-	3.97
71.4169	9.313145	3.96553	36.8339665	+	3.97
48.4327	6.197367	8.593266	3.96549232	-	3.97
94.2935	5.190251	3.965362	4.39354993	-	3.97
494.8535	8.939359	3.96446	26.908092	-	3.96
129.7844	4.742447	3.963434	6.98588274	-	3.96
13.473	7.665015	3.962637	95.6349069	-	3.96
37.6669	8.264105	4.723251	3.95783831	-	3.96
39.7547	3.957072	4.571666	5.38151967	-	3.96
95.2035	6.200099	3.954476	4.28806399	-	3.95
15.77	7.88135	8.313082	3.9522194	-	3.95
567.3278	5.896174	3.95113	4.10580885	-	3.95
1781.306	4.302808	3.949983	7.37191548	-	3.95
101.0566	3.942314	4.749939	18.4259662	-	3.94
46.9908	19.49082	3.942195	4.18748989	-	3.94
64.5641	5.212443	3.941376	8.76006171	-	3.94
129.3455	7.119959	3.940359	49.6149576	-	3.94
34.4184	4.209815	5.750381	3.94002917	-	3.94
18.3713	5.680778	3.939683	17.1968832	-	3.94
23.6868	4.889245	3.939509	9.15233801	-	3.94
21.2897	4.962672	3.938771	8.07759151	-	3.94
3582.9	4.684342	3.937354	5.04827685	-	3.94
1718.276	5.682262	3.937083	9.51337687	-	3.94
188.9592	5.013038	3.933071	5.69878683	-	3.93
37.9121	8.856479	3.932731	16.8185751	-	3.93
11.5417	3.958085	3.93121	12.5712417	-	3.93
1118.832	4.317267	3.930118	5.8889739	-	3.93
78.2167	6.480746	3.930096	11.3361916	-	3.93
183.3639	4.212627	3.926881	11.5838696	-	3.93
9.1035	3.919016	5.632611	4.33612347	-	3.92
15.9472	4.411175	3.918956	6.26980912	-	3.92
46.4945	6.844225	3.918955	32.5310628	-	3.92
314.5933	3.918314	4.374929	5.62791865	-	3.92
132.5375	7.492008	3.918186	13.4444629	-	3.92
700.4539	5.435711	3.916529	4.28223685	-	3.92

13.4747	13.22085	3.910944	103.814222	-	3.91
23.9738	4.29821	4.854231	3.90933436	-	3.91
24.7991	7.528025	3.908208	89.0069196	-	3.91
17.7403	3.907857	4.820269	4.67441362	-	3.91
38.0556	3.907691	6.39565	6.30079673	-	3.91
908.7915	5.238377	5.615045	3.90766254	-	3.91
32.6187	8.337575	5.276195	3.90716062	-	3.91
20.3487	5.40527	3.906949	5.85116002	-	3.91
7.5197	4.191361	3.906446	4.02364456	-	3.91
966.6623	4.047705	4.720871	3.90295504	-	3.90
18.7532	3.90021	4.558797	4.22745985	-	3.90
245.3195	3.898877	4.08953	8.19931355	-	3.90
54.6682	3.896175	4.582133	8.05663073	-	3.90
158.7487	4.841819	3.894695	8.02408146	-	3.89
11.617	3.892951	7.11293	5.75310321	-	3.89
90.1055	4.191432	3.88814	21.7686923	-	3.89
19.1194	3.886585	4.171796	11.0253198	-	3.89
8.1297	3.882091	4.340508	5.32845	-	3.88
2220.763	5.587268	3.879825	10.4807439	-	3.88
61.3634	4.03092	3.879349	7.82803104	-	3.88
803.2435	5.065811	3.878065	18.2472558	-	3.88
125.5975	9.981242	8.571219	3.87474591	+	3.87
110.1795	6.387246	3.872019	24.1425447	-	3.87
31.1241	7.769755	7.448478	3.87133443	-	3.87
24.4754	3.870393	4.221403	4.45057078	-	3.87
711.9835	4.376799	3.869824	5.75621134	-	3.87
20.3394	6.221318	4.435341	3.86797546	-	3.87
944.3192	4.881882	3.867944	4.03334392	-	3.87
490.8392	6.272435	3.86783	19.2857814	-	3.87
3253.114	4.338616	3.867146	4.29301458	-	3.87
1062.15	4.823129	3.877813	3.8646328	-	3.86
23.1488	5.593621	3.859183	9.94623911	-	3.86
48.6067	7.028522	3.858686	25.6019108	-	3.86
1165.8	6.2506	3.857324	4.22522869	-	3.86
14.1322	3.852948	4.655498	7.26269795	-	3.85
143.1195	4.562347	3.841704	21.5710473	-	3.84
401.9895	4.902352	3.837228	16.4418959	-	3.84
1185.78	5.698022	3.83477	10.281977	-	3.83
37.4856	3.834598	4.942761	5.90764187	-	3.83
22.4037	8.947505	3.834249	9.4960877	-	3.83
18.1318	3.833268	4.895467	5.46661115	-	3.83
13.5954	12.24973	3.832013	20.1782588	-	3.83
331.8537	5.256044	3.831773	10.4916254	-	3.83
697.5375	3.911394	3.831461	7.07812383	-	3.83
178.8365	3.828976	8.223567	17.7873057	-	3.83
45.4274	3.825575	3.966367	9.62735045	-	3.83
18.9947	3.824377	4.263335	5.55847157	-	3.82
13.491	6.38941	3.823956	5.07610259	-	3.82
6.0078	7.192876	3.822984	10.0665302	-	3.82
8.0517	3.820474	5.228639	6.74975471	-	3.82
46.0226	10.28526	7.234538	3.82045995	-	3.82
138.4262	4.210405	3.817091	3.83626366	-	3.82
194.5332	4.11155	3.813762	6.93174635	-	3.81

271.0151	4.982277	3.813739	6.02328284	-	3.81
387.9255	3.810348	6.184189	12.1055396	-	3.81
73.2155	3.81024	4.877903	5.58225103	-	3.81
181.7635	4.974965	3.807921	7.41406388	-	3.81
7.159	5.082571	3.806984	4.48308423	-	3.81
8.1046	8.054964	3.80448	10.9127533	-	3.80
8.4276	3.80385	4.663797	3.87570601	-	3.80
135.2248	7.849927	6.832866	3.80223228	-	3.80
11.4511	3.801984	4.614068	17.6124826	-	3.80
434.5075	4.484962	3.798314	12.8304195	-	3.80
28.8041	6.670271	3.796527	9.90482258	-	3.80
2669.798	7.388025	17.5207	3.79642385	-	3.80
45.1929	4.168563	3.795514	5.89078152	-	3.80
8.5036	3.790002	3.888566	13.1402582	-	3.79
41.3941	4.810183	3.786718	11.7816186	-	3.79
275.4855	7.0191	4.623951	3.78520104	-	3.79
150.1983	4.321919	3.783189	11.2932124	-	3.78
51.1874	5.835898	3.779985	13.5647347	-	3.78
1845.398	3.921381	3.774734	5.06826372	+	3.77
24.005	6.634724	3.774329	6.51112268	-	3.77
9.4334	4.737548	3.774289	4.53239553	-	3.77
181.1668	4.267949	3.771617	15.3552168	-	3.77
100.533	3.76933	7.278842	13.0515303	-	3.77
15.552	5.283925	3.769178	55.4837641	-	3.77
1774.993	3.767492	4.218408	8.85647833	-	3.77
535.762	4.651749	3.76476	17.8590298	-	3.76
1424.816	7.858508	5.354488	3.76440844	-	3.76
138.305	7.119177	3.762659	12.5965764	-	3.76
3010.448	6.411127	3.955989	3.75662937	-	3.76
1129.239	13.58329	10.6772	3.75343384	-	3.75
29.2408	3.749167	6.430191	10.3901261	-	3.75
189.5075	6.335908	3.745978	5.37730169	-	3.75
258.1735	3.745822	4.48109	12.5831826	+	3.75
292.3435	5.354806	3.745759	4.13829416	-	3.75
149.1595	4.292535	3.745024	10.7576038	-	3.75
540.8215	7.094452	3.744956	14.2018457	-	3.74
7.991	4.675457	3.743729	3.80285321	+	3.74
70.9076	4.964506	3.743344	6.54891013	-	3.74
256.9355	4.744988	3.741494	4.29892132	-	3.74
226.2109	6.979427	3.853674	3.74073707	-	3.74
7.3083	3.736652	4.398828	4.21266232	-	3.74
47.7716	12.68744	12.21134	3.73492828	-	3.73
28.5516	9.019804	3.731202	16.3392419	-	3.73
65.4807	5.844965	3.729686	5.74850758	-	3.73
84.2283	3.729611	10.82078	9.16491844	-	3.73
901.445	4.419501	3.729109	5.88223863	-	3.73
134.2147	9.112148	4.937186	3.72799477	-	3.73
336.1997	4.994492	3.727676	18.2149303	-	3.73
499.8426	6.047868	3.72732	27.0716372	-	3.73
536.9355	4.214986	3.72616	10.8480209	-	3.73
330.0354	5.546239	4.314992	3.72495041	-	3.72
261.5315	17.92451	10.39218	3.72065889	-	3.72
42.7769	4.581258	3.720398	7.65350458	-	3.72

178.9535	5.145442	3.718817	6.1934497	-	3.72
9.4704	3.714294	5.834984	5.92955947	-	3.71
14.4178	5.753221	3.711966	4.78448168	-	3.71
28.0287	9.114692	3.711335	12.7090982	-	3.71
41.4607	5.572041	4.12246	3.71033051	-	3.71
215.7095	5.19619	3.707245	17.4101433	-	3.71
189.6235	6.105028	3.702323	8.7907079	+	3.70
187.8575	6.443362	5.11661	3.70210133	-	3.70
41.3518	7.279235	3.702092	10.2502309	-	3.70
31.2588	4.093191	3.699196	7.22504703	-	3.70
8.1815	3.698043	3.773273	4.96716983	-	3.70
15.6323	3.696772	6.157161	10.1051989	-	3.70
242.2685	6.115496	3.691234	46.4949405	-	3.69
151.7435	4.379465	3.691234	67.9511775	-	3.69
847.9352	4.587108	3.690437	7.4212941	-	3.69
1714.914	4.175741	3.689131	6.25223539	-	3.69
45.6225	5.764823	3.688843	9.95363034	-	3.69
40.2442	7.118659	4.998968	3.68444148	-	3.68
274.0022	5.557161	3.682149	13.9208499	-	3.68
9.4916	4.330479	5.234506	3.68206625	-	3.68
11.6255	5.0411	3.681727	11.8176939	-	3.68
1799.392	4.381447	4.466353	3.6805195	-	3.68
621.7075	3.678749	4.553397	7.46958674	-	3.68
81.6455	9.108671	3.677239	4.16068859	-	3.68
91.2279	4.260296	3.67584	5.87331946	-	3.68
39.4106	4.619087	3.674778	23.2738781	-	3.67
17.9932	5.270831	3.674596	3.9131672	-	3.67
60.345	3.991413	4.948069	3.67343608	-	3.67
9.7862	5.520599	3.673104	6.15365515	-	3.67
65.038	3.672389	3.809759	4.38788862	-	3.67
1744.757	4.230469	3.671835	5.44984391	+	3.67
142.3715	3.668428	6.352169	21.86072	-	3.67
8.4383	12.73625	3.667633	25.7029852	-	3.67
1063.296	5.535088	3.667562	4.04220377	-	3.67
254.8075	3.664577	3.814486	7.93241761	-	3.66
5.3264	3.828529	3.66268	3.90975143	-	3.66
12.9662	7.991515	7.085042	3.66114976	-	3.66
65.246	3.661102	3.718378	78.0357646	-	3.66
75.4007	3.658226	4.56728	6.29730626	-	3.66
21.0466	5.80366	3.656799	4.23600487	-	3.66
143.0229	3.65618	6.613795	15.6703108	-	3.66
281.0555	4.437036	3.655962	4.49143852	-	3.66
11.5315	3.879903	3.655197	5.03137493	-	3.66
1790.711	4.184125	3.672696	3.6518224	-	3.65
51.7807	3.650744	4.973956	10.924833	-	3.65
1974.945	4.822411	3.647996	4.0505804	-	3.65
20.8596	3.646146	7.134363	5.88743312	-	3.65
9.1038	3.645737	7.309338	12.0109734	-	3.65
88.5378	5.191325	3.644381	12.9757855	-	3.64
78.4025	3.781289	3.644325	4.15629476	-	3.64
48.8353	5.399378	4.109707	3.63834153	-	3.64
84.9749	5.198446	3.637627	5.00394234	-	3.64
28.8034	4.690447	4.211632	3.63691439	-	3.64

6.8926	3.63138	3.71657	5.04055074	-	3.63
11.8023	8.759207	3.630713	114.207824	-	3.63
44.2624	5.345444	6.131406	3.63056228	-	3.63
1363.844	3.62954	3.710756	4.85175704	-	3.63
308.6881	15.59416	10.73879	3.62723895	-	3.63
10.0653	3.775337	3.627135	7.9121437	-	3.63
10.7258	3.995469	3.899073	3.62526805	-	3.63
51.149	3.621897	5.020881	10.2386264	-	3.62
438.8547	3.621672	3.700546	4.8684576	-	3.62
21.9332	4.411849	3.621188	10.0659958	-	3.62
54.5975	4.47209	3.616656	8.89310866	-	3.62
245.4136	3.615876	4.461714	12.7850734	+	3.62
30.358	5.717395	3.612206	3.91592002	-	3.61
450.0383	4.914746	3.611221	8.86571543	-	3.61
1367.51	3.736586	3.928588	3.60986852	-	3.61
10.3018	4.211822	3.85354	3.60759285	-	3.61
448.1955	4.043713	3.869373	3.60276152	-	3.60
255.0269	5.431656	3.598704	8.5993752	+	3.60
16.6857	3.59575	7.388603	4.48584716	-	3.60
923.9395	5.438967	3.595516	8.11852789	-	3.60
234.4235	3.816519	4.036911	3.59399762	-	3.59
4108.206	4.903804	5.156295	3.59076753	-	3.59
1138.078	4.286544	3.772147	3.58960264	-	3.59
77.0823	3.946798	3.589082	3.89442842	-	3.59
553.197	4.51608	3.587311	4.31583053	-	3.59
101.0575	4.023414	4.548443	3.58706182	-	3.59
16.4413	5.072187	3.58637	15.4002117	-	3.59
182.9593	4.410398	3.579403	4.48525656	-	3.58
391.4369	5.31393	3.578331	5.92065158	-	3.58
670.6171	4.076207	3.577489	4.39994074	-	3.58
86.1035	7.8532	3.57733	33.479603	-	3.58
705.3095	3.577095	4.232717	4.81608358	-	3.58
44.7913	5.684069	3.576967	23.7796961	-	3.58
640.8093	5.796549	3.575436	3.78593366	-	3.58
247.9635	3.991625	3.572328	13.0870128	-	3.57
99.6655	3.57146	3.625507	22.8084061	+	3.57
7.9539	3.571175	6.702637	6.92198796	-	3.57
53.6945	8.596052	9.160082	3.56895958	-	3.57
8.354	6.28371	3.566661	6.70019153	-	3.57
1115.474	3.56431	3.615818	7.25972004	-	3.56
61.8925	4.738716	3.562932	5.68166579	-	3.56
8.7668	3.563099	3.558383	3.77127344	-	3.56
97.4235	5.882965	5.202255	3.55813023	-	3.56
126.0686	3.744186	3.558114	26.3075143	-	3.56
9.9629	3.55731	4.391042	4.55310201	-	3.56
60.1611	4.354294	10.59086	3.55667533	-	3.56
36.2397	3.620838	3.555798	5.14335108	-	3.56
48.388	4.008555	3.55527	7.70652641	-	3.56
39.5365	3.553394	4.422418	6.82102614	-	3.55
79.053	3.553096	4.097468	5.00972006	-	3.55
18.5605	4.79269	3.550027	9.53649956	-	3.55
11.1612	8.375214	3.549284	98.073639	-	3.55
170.6566	4.069261	3.548682	8.35899813	-	3.55



14.8405	5.532917	3.547361	17.7466056	-	3.55
9.0858	3.546723	3.608444	3.73370534	-	3.55
50.3886	12.04513	3.546306	17.7097498	-	3.55
7.019	3.543292	3.804192	4.47825901	-	3.54
18.7727	3.72879	3.542507	6.38435068	-	3.54
39.9052	5.821777	3.541734	15.0811799	-	3.54
39.5175	7.744096	3.54118	11.2638072	-	3.54
666.8953	5.613947	3.539	10.9682607	-	3.54
10.3018	4.386249	3.537531	13.330418	-	3.54
130.8291	3.540408	3.536544	8.81678082	-	3.54
13.0231	3.536447	6.047177	3.63287543	-	3.54
8.1632	5.143662	3.5362	8.58604469	-	3.54
102.7255	5.25093	3.535473	7.44851473	-	3.54
13.4211	3.711698	3.534818	4.15283397	-	3.53
7.704	3.531601	7.102294	17.8225727	-	3.53
373.5975	5.667167	3.531382	14.5314289	-	3.53
19.7578	4.525666	10.98291	3.5283736	-	3.53
1250.85	12.40419	9.030497	3.5276693	-	3.53
670.3015	11.97392	9.211232	3.52759989	-	3.53
21.1115	3.527537	8.636772	11.8012221	-	3.53
1494.44	8.530727	6.862091	3.52502828	-	3.53
50.4133	4.045065	3.52469	17.3196637	-	3.52
71.0576	5.168082	3.522441	6.70415128	-	3.52
2823.51	7.822958	18.36903	3.52217079	-	3.52
265.2315	4.602935	3.519987	5.13422237	-	3.52
93.1768	4.194489	3.517632	5.87511484	-	3.52
379.8995	6.831642	3.514819	4.02061282	+	3.51
553.6229	4.165045	3.514229	9.48908996	-	3.51
74.3391	4.668307	3.509809	4.92944359	-	3.51
37.5276	3.507933	3.648108	3.77928511	-	3.51
452.8403	5.25044	5.317742	3.50507011	+	3.51
1643.891	5.306694	5.244492	3.50401757	-	3.50
307.1692	4.158097	3.501819	7.8470221	-	3.50
1165.376	5.195501	3.497367	4.19968433	-	3.50
54.6088	3.496633	3.55624	4.93941453	-	3.50
421.3152	3.988433	4.939631	3.49580908	-	3.50
186.9274	3.4948	3.662582	3.90005692	-	3.49
17.3703	4.347131	5.281226	3.4940617	-	3.49
851.2075	3.493491	3.688404	7.86041512	-	3.49
29.2711	4.974646	3.490567	4.8530291	-	3.49
65.222	4.218274	3.484959	20.3852074	-	3.48
417.6783	6.632059	3.484759	7.71871917	-	3.48
414.1915	4.73769	3.483044	17.8504617	-	3.48
236.9415	3.482542	3.955065	8.39231709	-	3.48
4257.786	5.335657	4.86607	3.48084785	-	3.48
2050.418	4.663751	3.478023	8.81898906	-	3.48
509.7475	6.682055	4.423767	3.47680273	-	3.48
36.9884	3.738204	9.237189	3.47534632	-	3.48
50.1541	9.969465	11.14039	3.47300619	-	3.47
20.6855	7.214215	5.641323	3.46535496	-	3.47
130.6824	6.884056	3.465029	11.3174957	-	3.47
26.1785	3.463308	3.491588	3.56573142	-	3.46
19.418	3.461656	3.870952	7.49919662	-	3.46

99.1084	3.590182	3.460187	30.2649372	-	3.46
6.4576	3.457132	4.94405	6.32606541	-	3.46
21.6705	6.81629	3.777794	3.45361205	-	3.45
202.6995	5.577508	3.449614	25.2837994	-	3.45
14.2061	3.446494	8.241765	5.16577386	-	3.45
115.8021	8.846298	3.444598	4.75867968	-	3.44
12.9891	3.443324	4.153557	4.4362042	-	3.44
1624.448	4.445344	3.437205	5.58018988	-	3.44
32.6995	3.804879	6.403221	3.4364868	-	3.44
41.1738	6.427091	3.435704	63.6625111	+	3.44
386.2073	4.314085	3.43291	4.37749235	-	3.43
12.8233	3.945492	3.430383	4.91373515	-	3.43
1398.935	3.955932	3.430321	5.67530879	-	3.43
91.1751	3.430266	7.070599	3.76989112	-	3.43
12.9618	3.428615	4.723743	5.92383002	-	3.43
10.3194	4.275578	3.90571	3.42836793	-	3.43
20.1268	4.047068	3.705585	3.42834927	-	3.43
20.304	7.434881	3.423973	4.33042258	-	3.42
15.8993	4.35149	3.423167	5.09639418	-	3.42
18.6379	3.419621	5.14984	7.32633505	-	3.42
11.2312	3.417443	3.804365	4.22473111	-	3.42
826.5263	3.474873	5.178631	3.41710784	-	3.42
14.9962	3.552292	3.414124	5.27850389	-	3.41
996.4554	3.413938	4.734563	8.16630378	-	3.41
34.4069	5.726395	6.076988	3.41276314	-	3.41
85.1339	4.134141	3.409788	3.85451037	-	3.41
345.1395	4.910945	3.409251	4.82173005	-	3.41
289.1669	3.407257	4.558413	9.98588531	-	3.41
54.2112	5.789996	7.645194	3.40511739	-	3.41
660.7835	4.423275	3.404143	20.3825006	-	3.40
130.1915	4.317774	3.397947	4.42381799	-	3.40
62.0004	4.064055	3.394988	13.9943533	-	3.39
58.0501	8.398491	5.987931	3.39476418	-	3.39
2596.301	4.147985	3.392083	5.23646909	-	3.39
150.1339	3.391796	4.274651	8.87865965	-	3.39
92.2516	3.555928	3.391585	3.94878463	-	3.39
19.4213	6.169126	3.390987	9.19363791	-	3.39
1308.19	3.683639	3.389477	8.54525389	-	3.39
19.6787	6.563581	3.389349	5.19787892	+	3.39
75.6164	3.482387	3.384821	8.67237134	-	3.38
15.9098	5.411417	3.533045	3.38430401	-	3.38
96.1871	5.252806	3.383495	31.9386934	-	3.38
317.7383	4.265848	3.383161	7.98985014	-	3.38
48.8378	5.691808	3.381066	12.0208732	-	3.38
48.662	3.380666	8.293295	11.935463	-	3.38
2702.314	3.506335	3.846839	3.3800927	-	3.38
65.246	6.60354	3.379206	28.8522438	+	3.38
11.0671	4.006523	3.378216	7.72031517	-	3.38
1118.58	3.378148	4.015844	3.65071191	-	3.38
61.3834	4.598977	3.376256	77.0966662	-	3.38
121.0785	3.374688	6.427472	16.2525263	-	3.37
85.6515	3.657741	3.374632	5.06187866	-	3.37
1289.082	3.841773	3.374249	7.14116829	-	3.37

502.2674	3.960942	3.52868	3.37218103	-	3.37
109.4809	9.337384	11.10619	3.37198087	-	3.37
1754.492	6.255994	5.493598	3.37087042	-	3.37
12.7932	4.074613	3.37038	3.72187568	-	3.37
205.8215	14.24933	7.356611	3.36552304	-	3.37
39.6803	3.365208	3.413539	3.98568055	-	3.37
36.1166	4.103602	3.364639	12.3571294	-	3.36
3412.604	3.364431	3.726163	3.73679509	-	3.36
397.3794	4.028267	3.362417	7.29186138	+	3.36
1331.23	5.678327	3.821082	3.36181567	-	3.36
11.2791	3.359534	6.773556	7.36845138	-	3.36
45.3998	4.213885	3.350425	4.80058282	-	3.35
118.7835	4.084559	3.349247	20.5149495	-	3.35
13.4547	3.427994	3.348029	7.73704356	-	3.35
86.2489	3.347817	3.639263	50.4532522	-	3.35
33.2025	3.346549	4.911412	14.7484527	-	3.35
13.09	3.960099	3.344569	5.54546982	-	3.34
2636.596	4.098059	4.05683	3.34076395	-	3.34
18.9713	3.337069	3.826	4.24543916	-	3.34
156.0275	5.171827	4.888561	3.33668232	-	3.34
141.5526	6.521342	3.335753	8.74749104	-	3.34
26.9389	5.364102	3.332979	10.3098308	-	3.33
16.0564	3.332434	5.674209	11.8858212	-	3.33
199.5635	6.396213	3.329104	15.1890877	-	3.33
6.4394	14.41458	3.327709	226.422881	-	3.33
670.2235	3.326446	3.347149	3.51169349	-	3.33
16.1828	3.325678	5.655398	5.87472502	-	3.33
9.3429	3.325079	5.951744	10.6996222	-	3.33
73.2155	4.57452	3.3244	7.47220875	-	3.32
64.4646	3.323721	4.592255	5.32548872	-	3.32
305.2345	3.454177	3.322388	7.29877815	-	3.32
31.0473	3.440744	3.591132	3.32143214	-	3.32
242.6458	5.377471	3.315817	18.3738169	-	3.32
2990.084	4.643836	3.314946	3.49763971	-	3.31
1092.538	3.991747	3.314752	9.16949127	-	3.31
150.7432	32.81451	9.476513	3.31344631	-	3.31
1554.964	4.654706	3.312954	4.46755535	-	3.31
60.0273	3.310314	32.49756	37.7307575	-	3.31
28.2317	3.308626	4.731998	27.9510515	-	3.31
7.627	3.308535	4.566344	4.4764783	-	3.31
1733.495	3.512652	3.30446	4.78971042	+	3.30
7.6955	11.13365	3.304245	24.0584108	-	3.30
13.3662	3.303826	4.707584	6.61904655	-	3.30
14.3165	5.218476	3.300619	3.73974086	-	3.30
463.4475	4.518249	3.300448	4.53008421	-	3.30
21.573	3.35371	3.299027	3.35762759	-	3.30
358.8355	3.761468	3.298717	7.90173631	-	3.30
502.219	4.064958	3.298197	4.24694705	-	3.30
18.9453	3.634697	3.297657	14.112165	-	3.30
188.515	3.846787	3.296334	5.91055142	-	3.30
2089.422	24.65617	15.48984	3.2953012	-	3.30
13.2734	3.29505	3.967072	4.27598807	-	3.30
280.8675	3.889526	3.293583	7.61459763	-	3.29

299.4222	4.234985	3.291551	9.29033819	-	3.29
1157.592	13.65401	7.239996	3.2914903	+	3.29
275.3295	3.948307	3.290964	3.32522123	-	3.29
18.8901	7.111156	5.809965	3.29084018	-	3.29
360.1005	3.467449	3.509396	3.29010929	+	3.29
232.0395	5.736513	12.68005	3.28931281	-	3.29
41.0648	3.288524	4.730426	5.94551782	-	3.29
236.9167	4.129508	3.288375	3.90465299	-	3.29
126.2443	3.84119	3.285384	23.861227	-	3.29
554.502	3.284013	3.358386	5.27380154	-	3.28
9.4708	9.678296	3.281652	230.781296	-	3.28
447.1355	3.281383	3.434982	15.5363274	-	3.28
52.3597	3.694839	4.370137	3.27785492	-	3.28
36.041	8.057843	3.268581	4.7290447	-	3.27
299.3135	3.26849	3.379829	5.60108882	-	3.27
10.6469	3.268288	3.65668	20.7726568	-	3.27
299.1964	5.794137	4.053869	3.26705535	-	3.27
2546.372	7.882489	7.770192	3.26367939	-	3.26
13.2977	3.260769	6.812906	3.31866413	-	3.26
68.7508	3.532486	4.639391	3.25535703	-	3.26
470.8995	4.175835	3.25187	11.8471808	+	3.25
203.1935	3.530453	3.24689	5.09919166	-	3.25
3369.916	3.765493	3.24657	4.46265154	-	3.25
16.6265	5.784871	3.245599	10.0475446	-	3.25
336.3889	5.125591	3.245175	7.0601631	-	3.25
163.4875	4.598827	3.242993	13.1003025	-	3.24
120.9879	4.92938	3.241522	4.14237705	-	3.24
58.8676	5.039634	3.236293	3.90743805	-	3.24
9.6594	4.191838	3.233297	16.5080129	-	3.23
38.1301	6.509553	3.856045	3.23009906	-	3.23
343.6175	3.431933	3.592616	3.22904247	-	3.23
298.4662	4.091637	4.057447	3.22889996	-	3.23
26.9491	3.965615	3.224912	4.61371623	-	3.22
34.2194	3.224775	3.328823	6.67485403	-	3.22
14.0581	10.56476	3.221796	13.5827388	-	3.22
82.4555	4.023851	3.219943	6.32127026	-	3.22
582.6955	5.63417	3.219461	16.0553866	+	3.22
2306.069	13.3132	11.10457	3.21813597	-	3.22
170.4495	4.339185	3.218023	11.8925699	-	3.22
107.5015	5.468769	4.4535	3.21723418	-	3.22
249.6535	6.989055	4.237067	3.21616601	-	3.22
760.667	3.513685	3.213405	8.2092319	-	3.21
316.2881	5.287791	3.211981	6.64663609	-	3.21
798.7475	8.105714	5.254132	3.21145093	-	3.21
148.8335	5.07517	4.007135	3.21064881	-	3.21
300.4597	4.069377	3.209771	20.7149345	-	3.21
19.7267	3.208316	3.991662	11.3499724	-	3.21
12.0771	3.803918	3.205777	6.1600467	-	3.21
5.3329	3.760508	3.205154	4.78311988	-	3.21
240.8427	3.301999	3.20252	17.03858	+	3.20
3716.304	3.24617	3.199727	5.90402573	-	3.20
17.5681	3.199317	3.337656	14.3199037	-	3.20
2215.04	4.410332	3.883614	3.19526017	-	3.20



140.4695	4.832761	3.194431	9.56225729	+	3.19
155.7955	4.324412	3.559359	3.19315706	-	3.19
881.8315	3.98197	3.192114	10.9724993	-	3.19
416.7274	3.190363	3.40586	6.07162236	-	3.19
1653.756	5.162079	5.465461	3.18964248	-	3.19
12.3665	5.213258	3.596318	3.18912384	-	3.19
657.5742	3.339919	3.452313	3.18796799	-	3.19
67.9857	3.943071	3.185093	6.93856796	-	3.19
98.6975	3.633574	3.184239	11.534127	-	3.18
369.9929	5.888659	3.183547	3.62259249	-	3.18
1219.387	3.345306	3.183456	3.35717414	-	3.18
8.354	3.757803	3.18122	3.41548959	-	3.18
33.8214	3.179129	9.41771	23.4624084	-	3.18
397.8655	3.61411	3.178968	19.5408639	-	3.18
278.9993	3.177711	8.280235	7.81892105	-	3.18
35.12	3.386631	3.890212	3.17765661	+	3.18
9.5203	3.177466	7.118154	5.16999464	-	3.18
299.7158	4.727393	3.177404	10.9893623	-	3.18
6.2037	3.177273	5.609244	6.520383	-	3.18
768.058	3.462682	3.174753	8.94310521	-	3.17
10.7151	3.811128	4.029735	3.17332549	-	3.17
1623.771	3.171633	3.466161	6.45521902	-	3.17
164.8062	3.171304	3.183367	4.40770675	-	3.17
409.5755	4.020252	3.171128	13.7280318	-	3.17
303.8055	4.22366	3.169853	10.9135249	-	3.17
77.0878	6.411284	3.167822	18.0839964	-	3.17
8.6904	11.00973	3.164664	16.0749908	-	3.16
23.4317	6.805641	3.162918	7.97968137	-	3.16
44.2466	4.055047	3.162692	7.53439812	-	3.16
33.1741	5.4008	3.442162	3.16208126	-	3.16
11.2436	4.286668	3.161034	7.16723291	-	3.16
243.0558	3.161006	3.389351	8.07519878	-	3.16
445.3185	3.161629	3.154858	3.98934785	-	3.15
1181.866	4.416063	3.154654	8.32776327	+	3.15
46.731	4.724874	4.354971	3.15459759	-	3.15
99.9935	5.028566	3.15197	5.06105297	-	3.15
60.0576	3.1519	3.307122	21.0115922	-	3.15
17.1126	4.076638	3.15094	3.20573729	-	3.15
23.5373	3.202311	3.148398	30.4188458	-	3.15
308.3188	3.147663	3.244417	3.56922478	-	3.15
119.9122	5.481416	3.146623	3.77429069	-	3.15
41.5978	3.994006	3.145589	18.980511	-	3.15
21.3909	3.145494	3.396333	4.93254141	-	3.15
50.9634	3.144388	9.17377	24.1478512	-	3.14
429.4842	4.510674	4.503423	3.14388771	-	3.14
283.4802	4.87777	3.143549	10.9525297	-	3.14
74.4919	6.770506	3.608298	3.14009308	-	3.14
51.8445	4.223078	4.744642	3.13860487	-	3.14
340.9521	4.465711	3.137533	3.95328963	-	3.14
49.9953	4.841291	3.135584	19.7356852	-	3.14
146.9814	3.13538	27.67107	24.7982092	-	3.14
1033.588	3.290445	3.133985	13.4275194	-	3.13
10.6062	4.983701	3.133563	6.02802135	-	3.13

360.8695	4.845102	3.13184	3.67635253	-	3.13
10.4496	3.594745	3.13126	3.27161805	-	3.13
149.3031	3.552895	3.130932	9.71939297	+	3.13
1120.446	55.0055	41.01212	3.13087562	-	3.13
1425.116	4.618248	4.157767	3.13076706	-	3.13
332.6035	4.595216	3.127843	11.9697279	+	3.13
27.4872	4.904012	3.126323	14.0504708	-	3.13
1705.382	5.389993	4.469383	3.12609554	-	3.13
660.7835	3.39497	3.12405	5.41321098	-	3.12
451.2828	3.903591	3.124035	3.78621011	-	3.12
525.7871	4.859535	3.122276	10.8373674	-	3.12
3507.933	3.716439	3.117244	3.44347515	-	3.12
36.7829	3.900906	3.116968	3.44759657	-	3.12
11.4561	5.976812	3.116017	4.62818062	+	3.12
167.5735	3.957319	3.115873	9.99452479	-	3.12
98.4775	6.306751	6.02175	3.11480592	-	3.11
222.3465	3.252478	3.114187	3.19327896	-	3.11
938.768	3.89916	3.1131	4.00344377	-	3.11
48.455	4.651636	3.11299	3.88687855	-	3.11
1948.24	3.111639	3.13577	3.68358109	+	3.11
636.2709	3.110301	3.207276	7.75641555	-	3.11
93.3014	3.105736	4.211152	3.46164581	-	3.11
424.5632	3.828951	3.104896	4.12800945	-	3.10
8.4817	3.103175	3.715398	4.86098306	-	3.10
997.6495	5.814009	3.984508	3.10097835	-	3.10
773.9795	4.869523	4.439831	3.0984517	-	3.10
29.5522	6.444636	3.098237	4.00063278	-	3.10
33.0721	5.14099	3.097135	4.60809867	-	3.10
8.9374	3.583266	3.095872	3.37101394	-	3.10
121.0675	3.095274	3.356921	20.8144506	-	3.10
41.7675	3.769697	3.092437	8.08890645	-	3.09
45.2668	3.090297	11.26534	33.9381511	-	3.09
65.5649	4.912087	3.089972	93.1025213	-	3.09
2262.264	3.441873	3.089708	5.85988887	-	3.09
19.5109	4.778061	3.088903	7.62740314	-	3.09
8.5225	5.84232	3.087805	17.9061895	-	3.09
6.8483	13.1062	3.084943	31.5893725	-	3.08
778.0495	4.730278	3.973631	3.08467713	-	3.08
3295.935	3.084552	3.670479	4.63628714	-	3.08
68.8897	3.22161	5.971435	3.08454675	-	3.08
1315.765	3.754492	3.084175	4.99811935	-	3.08
6.9192	3.083602	4.470391	3.29600243	-	3.08
66.7641	3.860237	3.786022	3.08350146	+	3.08
12.6923	3.082815	3.0969	3.34321597	-	3.08
502.0182	5.816316	6.375015	3.0817319	-	3.08
13.387	5.034688	3.081276	3.22333607	-	3.08
100.573	3.238976	3.078267	6.22468754	-	3.08
15.5817	5.523786	3.077141	69.3259786	-	3.08
7.8882	3.07586	3.345316	3.09438148	-	3.08
3803.554	3.676252	3.075269	3.75369338	-	3.08
72.6856	9.93825	6.875667	3.07446729	-	3.07
14.5114	5.440086	3.073225	5.0925686	-	3.07
11.2994	3.072832	4.786079	3.20032037	-	3.07

162.023	3.722347	3.07279	6.64881838	-	3.07
224.5654	4.421236	3.072288	43.8840592	-	3.07
16.2913	3.776532	3.071888	16.8051291	-	3.07
79.6435	3.853565	3.071149	5.08535536	-	3.07
2239.842	4.445602	3.070764	4.81450116	-	3.07
408.9306	3.258427	3.069398	5.95931315	-	3.07
485.7835	4.688899	3.068735	18.1332456	+	3.07
113.3775	4.873944	4.956705	3.06824105	-	3.07
556.3895	3.252849	3.067561	5.88292338	+	3.07
10.1898	4.039534	3.067386	4.05709631	-	3.07
10.9782	3.196618	3.52574	3.06686889	-	3.07
361.3875	18.31457	17.10448	3.06670126	-	3.07
34.5564	5.135087	3.066581	5.90002141	-	3.07
212.6855	3.329457	3.06504	9.31625099	-	3.07
221.7175	3.640356	3.062952	18.2916256	-	3.06
225.752	4.138439	3.058339	37.0475012	-	3.06
13.8999	6.328747	3.058309	29.6560839	-	3.06
12.7724	3.057909	3.071302	3.9420704	-	3.06
184.0935	3.450977	3.056992	6.38967916	-	3.06
553.1755	5.0787	3.055109	25.6763134	+	3.06
6481.73	4.41432	3.292007	3.05491976	-	3.05
7.075	3.064071	3.054884	3.42773145	-	3.05
19.2097	3.567213	3.054128	5.25159164	-	3.05
19.7812	3.052012	3.713173	6.66256344	-	3.05
1945.578	4.030174	3.04992	4.98027115	-	3.05
266.8446	4.587945	3.048191	10.587741	-	3.05
11.3851	3.047767	3.701717	4.25197846	-	3.05
14.8405	6.703172	3.047437	8.4572757	-	3.05
6609.47	4.186484	3.281863	3.04696307	-	3.05
16.4172	8.77921	3.04688	4.44222523	-	3.05
2964.966	3.281057	3.053167	3.04677862	-	3.05
882.8635	3.621487	3.043339	4.32668867	-	3.04
46.2815	4.478354	3.042045	70.3006731	-	3.04
47.6383	5.393497	3.892874	3.04035828	-	3.04
21.0936	5.299602	5.780532	3.03912561	-	3.04
8.7308	3.038834	5.060694	7.43001787	-	3.04
41.0225	5.475208	6.126446	3.03739411	-	3.04
110.8253	4.341089	3.036907	34.9887715	-	3.04
51.5985	8.42258	3.034797	12.4577168	-	3.03
38.921	4.313212	3.034195	11.1528352	-	3.03
731.9335	4.673095	3.034171	19.239739	-	3.03
7.7407	4.517816	3.033533	6.08525069	-	3.03
886.8475	3.073897	3.032693	4.19266841	-	3.03
74.7695	4.240785	3.032375	7.11457881	-	3.03
44.7198	8.097224	7.064846	3.0311674	-	3.03
372.7488	6.350052	5.594446	3.03113384	-	3.03
104.3515	3.759228	3.030403	16.2100736	-	3.03
26.5354	10.84568	10.20221	3.03020493	+	3.03
242.0693	3.104293	3.029308	28.3760332	-	3.03
8.616	3.025902	6.474616	8.21373027	-	3.03
212.7179	3.961542	3.025281	8.49299236	-	3.03
13.8397	11.9841	3.022867	11.3338801	-	3.02
749.6855	4.264535	3.477536	3.02264816	-	3.02

9.9024	3.022638	4.03714	3.9803078	-	3.02
349.0977	3.686675	3.018123	3.47795331	-	3.02
262.2515	4.448175	3.016974	3.47465391	-	3.02
566.9629	3.016541	3.278505	6.39939827	-	3.02
65.4599	3.014836	5.064633	3.85817119	-	3.01
109.9055	3.68273	3.014102	9.97127077	-	3.01
258.4695	3.864246	3.012676	16.9950215	-	3.01
18.1932	5.665562	3.012479	16.5989216	-	3.01
173.0835	4.681017	3.011809	8.23882057	-	3.01
184.1178	4.518645	3.011639	19.1266423	-	3.01
139.9575	3.011068	6.081627	3.17843274	-	3.01
96.6476	3.00906	3.043184	18.2239963	-	3.01
13.9395	3.097893	3.006446	27.2676567	-	3.01
20.4328	5.023246	4.523689	3.00559395	-	3.01
108.8927	4.244147	3.004029	5.99183876	-	3.00
253.7299	3.729927	3.002388	6.71818536	-	3.00
150.118	3.371388	3.002267	10.1719148	-	3.00
46.4745	13.7986	8.358886	3.00155139	-	3.00
73.243	4.685111	3.001222	35.0095641	-	3.00
132.998	4.475784	2.999225	3.16464533	-	3.00
92.4693	4.550896	2.995789	17.7642039	-	3.00
1161.297	2.994769	3.917252	4.82299276	+	2.99
55.2572	3.031143	2.993346	6.45543929	-	2.99
22.6562	2.990308	3.881464	7.32547824	-	2.99
30.4069	5.124901	2.987596	3.13604807	-	2.99
77.9895	2.984332	3.877093	6.31889165	-	2.98
643.9897	4.450839	2.983829	8.94475051	+	2.98
55.4221	2.982666	6.084135	9.0897945	-	2.98
35.3672	7.138985	9.831075	2.98252335	-	2.98
11.3329	7.343655	2.98169	5.23177651	-	2.98
30.7803	4.428618	2.978619	5.93169982	-	2.98
197.8295	4.242131	2.97855	5.05847965	-	2.98
7.153	2.977372	3.230573	3.11052705	-	2.98
25.4258	6.178343	4.831754	2.97396739	-	2.97
43.2499	3.203843	2.972864	4.88051302	-	2.97
24.686	4.773843	5.514682	2.96927408	-	2.97
1045.741	3.846744	3.238386	2.96854545	-	2.97
686.7416	4.774912	2.964516	13.6167004	-	2.96
54.6487	2.963128	4.067815	3.81347589	-	2.96
3930.812	3.216598	3.024104	2.96242209	-	2.96
16.2853	2.960076	5.782392	3.74146009	-	2.96
1589.522	4.992254	2.959448	6.29450586	-	2.96
11.8276	2.957692	4.003514	5.90470594	-	2.96
2689.056	3.181967	2.956445	3.52222805	+	2.96
192.2663	2.955381	22.02435	21.3112932	-	2.96
873.0215	5.103222	2.953979	3.62790321	+	2.95
12.7198	9.868336	2.953835	10.3654067	-	2.95
821.2858	2.952477	3.017446	5.32351466	-	2.95
525.7395	4.311927	2.952045	3.31302385	-	2.95
74.3671	2.951797	31.34081	31.7263844	-	2.95
19.6099	3.281769	4.22512	2.95126441	-	2.95
251.7865	3.820868	2.950398	16.966468	-	2.95
456.0375	7.899851	7.105805	2.94784859	-	2.95

307.6515	3.043232	2.946131	4.52635661	-	2.95
24.9734	3.370512	2.944414	6.88239887	+	2.94
61.4387	5.695368	2.943114	4.65502363	-	2.94
659.4749	4.209955	2.942838	6.90237718	-	2.94
265.0794	2.942011	3.628128	4.87253668	-	2.94
236.3915	3.308358	2.941451	8.49944901	-	2.94
277.6438	3.33292	2.941151	8.74603899	-	2.94
103.5628	4.856465	4.018226	2.9410126	-	2.94
43.2461	9.072983	3.821875	2.9401842	-	2.94
41.7912	2.939922	3.576798	5.42266075	-	2.94
14.4226	3.12622	2.939484	3.19985301	-	2.94
11.8882	4.648657	2.938675	4.06031191	-	2.94
102.1215	3.020259	2.937922	12.4812845	-	2.94
514.005	4.207994	2.937257	4.29810119	-	2.94
1508.889	3.948406	2.937221	11.6314897	-	2.94
281.6689	2.935562	3.339251	7.16605738	-	2.94
108.6189	5.251782	2.934315	6.19658089	-	2.93
38.3935	2.932859	4.103104	3.01867504	-	2.93
203.3215	3.155317	2.932379	5.10755872	-	2.93
8.7019	2.932232	3.327833	55.6057298	-	2.93
35.0109	3.280676	2.931374	5.56785173	-	2.93
19.7109	2.9306	6.30357	5.77468304	-	2.93
806.2715	3.027386	2.930568	4.08387113	-	2.93
428.7348	3.682785	2.930309	3.44344219	-	2.93
122.7137	2.929542	3.649641	12.5504935	-	2.93
209.6043	5.218075	2.928102	4.72788726	-	2.93
995.5735	5.456547	7.695293	2.92695969	-	2.93
6744.391	3.571261	2.991147	2.92623457	-	2.93
1847.178	4.072785	3.973095	2.92250934	-	2.92
26.809	6.87464	4.136559	2.92248499	-	2.92
190.5713	3.154013	2.922396	7.37080295	-	2.92
18.321	3.051704	2.922342	4.16135036	-	2.92
53.3223	6.885613	2.921584	16.1434953	-	2.92
1323.647	2.921012	3.191658	3.99968745	-	2.92
107.1711	2.920609	3.033872	5.58574093	-	2.92
80.8796	3.472107	2.919983	11.9700221	-	2.92
193.146	2.918729	4.321354	9.24024054	-	2.92
75.7299	4.427698	2.918031	6.17829285	-	2.92
859.4275	3.358436	2.917841	5.11962382	-	2.92
45.8178	2.917239	3.355787	6.03847195	-	2.92
544.3412	4.291566	2.915137	5.75990114	-	2.92
1656.458	4.046504	2.912662	3.793046	-	2.91
29.1235	2.91035	3.501319	13.5132625	-	2.91
866.4375	3.540995	2.908023	4.79253437	-	2.91
22.5683	5.227512	2.905916	4.12749742	-	2.91
46.4705	2.903842	2.969143	5.3276272	-	2.90
226.111	4.703366	2.897338	3.28024554	-	2.90
41.4749	5.671979	2.896866	3.29325689	-	2.90
14.2894	2.896716	5.904292	3.38037986	-	2.90
43.8452	3.860882	2.896713	8.58640627	-	2.90
140.7546	3.333943	3.468847	2.89666981	-	2.90
17.5673	6.178038	2.89541	3.83484087	-	2.90
751.2544	2.895302	2.921647	5.6263544	-	2.90

69.5957	3.529909	2.894471	10.4731226	-	2.89
25.1819	3.47159	4.886401	2.89428518	-	2.89
922.6015	3.797839	2.8891	7.54913308	-	2.89
9.353	4.345656	2.923853	2.88812146	-	2.89
10.4691	2.886829	5.034019	6.22762224	-	2.89
626.5163	4.813918	2.886064	7.52558649	+	2.89
1440.403	3.549601	2.884238	5.80338286	-	2.88
113.1375	3.24422	2.883324	2.99067506	-	2.88
31.8626	3.434878	2.883008	6.14807015	-	2.88
13.2734	3.91155	2.974272	2.88192927	-	2.88
104.5751	2.88144	7.362746	28.655046	-	2.88
19.9291	4.24992	2.877085	7.67397926	-	2.88
28.9466	3.544896	3.531291	2.87679727	-	2.88
46.748	2.876274	3.320785	6.94343715	-	2.88
1088.811	3.92053	2.875267	5.8843323	-	2.88
2388.262	2.971753	2.871018	4.51355411	-	2.87
45.6641	2.870328	2.944074	13.9294873	-	2.87
113.4595	2.870047	3.692048	3.09401593	-	2.87
12.333	2.869702	3.181678	2.99262953	-	2.87
484.6695	3.466398	2.869558	4.9223182	-	2.87
24.591	7.42363	5.416814	2.86883413	-	2.87
13.1641	3.712926	4.643886	2.8679059	-	2.87
307.2915	3.868399	2.867876	13.6626802	-	2.87
43.3194	2.867564	6.864889	18.5423505	-	2.87
49.6575	2.866939	8.180504	4.55325782	-	2.87
26.4708	4.445888	2.86372	15.5377813	-	2.86
14.7936	4.122192	2.857646	4.748256	-	2.86
45.3044	2.917619	2.857467	3.8446045	-	2.86
656.8776	2.88953	2.856284	4.72551888	-	2.86
25.1126	3.459426	3.780266	2.85536344	-	2.86
543.6535	5.820684	4.396368	2.85495817	-	2.85
27.2778	3.150366	2.854454	2.97044116	-	2.85
6978.679	3.682699	2.853582	4.25942519	-	2.85
1003.598	4.880267	2.851173	5.60429405	-	2.85
80.7675	3.517951	2.849843	15.5712582	-	2.85
1654.544	3.535767	2.849468	3.33903309	-	2.85
27.2484	3.15305	2.848756	8.18958177	-	2.85
439.6115	2.847811	3.185929	3.6295263	-	2.85
5185.128	7.10059	4.91672	2.84373941	-	2.84
32.2579	2.843407	2.94571	3.47944225	-	2.84
875.5455	3.384867	2.841642	4.27986381	-	2.84
508.938	2.84159	3.018115	5.92108567	-	2.84
1273.141	2.944829	2.84121	4.56134821	-	2.84
1351.906	2.840852	3.032415	3.30442586	-	2.84
14.8	7.054846	2.840388	8.36442568	-	2.84
22.8304	2.83922	2.938827	4.3421403	-	2.84
948.6899	2.951134	2.83766	4.51013498	-	2.84
502.3555	4.143512	2.836901	6.94556524	-	2.84
7.4713	2.877532	4.187078	2.83539679	-	2.84
1574.846	2.834928	3.111433	3.85300561	-	2.83
51.1235	3.594745	2.832585	3.08115055	-	2.83
413.878	2.832533	2.996597	3.42407424	+	2.83
10.1992	2.827757	4.6724	7.91085575	-	2.83



34.9155	3.384804	2.827639	9.60156664	-	2.83
1030.344	4.00909	3.048319	2.82729158	-	2.83
190.5975	4.964353	3.137854	2.8271268	-	2.83
9.4265	5.180473	2.826529	4.04820453	-	2.83
1252.686	3.386619	2.826244	4.3816325	-	2.83
447.5022	3.466992	2.826012	8.45755507	-	2.83
36.4084	2.892471	2.825478	5.19285385	-	2.83
13.513	3.848502	2.824362	3.63891808	-	2.82
318.5918	3.255267	2.821181	6.79041457	-	2.82
382.6795	8.173813	4.24778	2.81921948	-	2.82
524.8482	3.139799	2.819045	3.39941625	-	2.82
1201.849	3.348108	3.084759	2.8188719	-	2.82
7.2901	4.038934	2.816036	3.38672995	-	2.82
102.6378	2.818801	2.815185	3.01735423	-	2.82
55.2401	2.813466	3.017308	16.1654215	-	2.81
97.5295	2.812575	3.411578	10.5789479	-	2.81
31.924	5.189399	2.812002	11.0582289	-	2.81
30.24	3.201726	5.811896	2.81181217	+	2.81
49.0777	5.104668	2.811801	3.23309772	-	2.81
254.3615	4.322529	3.101353	2.81026453	-	2.81
36.6224	2.809844	4.507037	5.46320012	-	2.81
11.3223	5.416056	2.807977	17.9772219	-	2.81
10.2487	2.807851	4.043686	4.0118454	-	2.81
698.2695	2.80571	2.815686	6.59054921	-	2.81
1836.418	3.195188	2.804197	2.92314346	-	2.80
1092.771	3.857621	3.995272	2.80106897	-	2.80
1484.707	4.66577	4.07521	2.80028379	-	2.80
1263.538	2.799489	3.063217	4.35712917	-	2.80
1473.008	2.799151	2.910723	3.19871114	-	2.80
79.4555	2.79803	3.036323	15.1194027	-	2.80
216.6445	3.390043	2.795991	5.33944965	-	2.80
29.5725	2.795416	4.5529	6.4282526	-	2.80
313.5238	3.432522	2.793944	5.77611333	+	2.79
271.2001	4.761688	4.302876	2.79302073	-	2.79
8.8524	4.012709	2.792587	3.72020017	-	2.79
314.7295	2.791126	3.278457	8.75556184	-	2.79
378.6741	2.800881	2.791065	3.03268483	+	2.79
3826.938	2.789993	2.90474	4.83805204	-	2.79
63.8649	2.789655	31.07921	34.3001351	-	2.79
14.6946	3.532239	2.786994	3.35743743	-	2.79
348.9234	2.786358	3.697417	2.89431864	-	2.79
34.316	2.785059	3.444293	3.60151241	-	2.79
341.6275	5.369845	7.517588	2.78281315	-	2.78
608.9795	3.677639	2.782603	6.67822201	-	2.78
15.7804	5.314132	2.782553	3.34458569	-	2.78
25.5722	5.040027	2.781062	67.4585487	-	2.78
31.5629	2.781052	3.301782	7.25381698	-	2.78
1506.074	2.938128	2.778709	5.29533709	-	2.78
382.1495	5.382351	2.777608	2.9530053	-	2.78
9.0249	2.777521	4.886681	4.95647597	-	2.78
422.4277	5.041711	7.880886	2.77726129	-	2.78
2354.939	4.393328	4.282542	2.77688143	-	2.78
57.2246	3.119943	2.774729	12.1336244	-	2.77

44.2147	3.853884	3.237929	2.77423119	+	2.77
159.171	2.773005	4.179086	3.64118024	-	2.77
196.8775	3.243672	2.772943	3.38183642	-	2.77
445.1139	3.409456	2.768691	7.22534996	-	2.77
12.9253	6.065481	5.84641	2.76771912	-	2.77
4365.038	3.747335	2.767577	3.2165197	+	2.77
60.5741	3.045502	2.765953	2.84194895	-	2.77
5631.222	2.823088	2.764124	6.36663305	-	2.76
328.3342	3.931213	3.370558	2.76358509	-	2.76
34.107	5.450675	4.828501	2.76140675	-	2.76
2153.572	2.761289	2.944553	5.15753942	-	2.76
424.7835	2.759198	3.197708	3.6461574	-	2.76
75.2631	3.193287	2.758923	16.6226305	-	2.76
566.3085	2.758106	3.16718	8.02662206	-	2.76
59.6232	3.341682	2.757026	8.97169894	-	2.76
245.9275	3.588252	2.756469	16.5227943	-	2.76
146.2295	3.464408	2.755983	20.4176278	-	2.76
2266.365	3.232535	2.755114	4.52297942	+	2.76
27.2898	2.753924	3.89593	3.01873227	-	2.75
615.4978	3.29908	2.752617	3.78521499	-	2.75
2270.522	3.270122	2.897621	2.75206093	-	2.75
3864.09	4.798449	3.441183	2.75146417	-	2.75
37.9152	7.297732	2.751311	3.61835886	-	2.75
2959.052	3.24941	2.750759	5.94188783	-	2.75
218.6675	2.748167	3.490149	4.55975899	-	2.75
295.2307	3.103704	3.13752	2.7480052	-	2.75
36.5831	4.958392	2.962189	2.74770317	-	2.75
625.6847	3.128274	2.747689	3.45674251	-	2.75
398.6458	2.8355	2.746088	10.0751908	-	2.75
10.2812	4.287504	2.745705	12.1329709	-	2.75
24.4626	2.745461	4.863233	3.87540163	-	2.75
23.649	2.879703	2.744144	2.90226648	-	2.74
2066.169	3.417115	2.739561	3.32937536	-	2.74
70.6342	2.738124	2.822302	8.74512913	-	2.74
16.6773	2.738079	3.833189	54.4571064	-	2.74
33.5397	2.73807	3.166053	4.72709953	-	2.74
332.9515	3.446096	2.737186	8.82730217	-	2.74
1314.316	3.394383	2.736781	7.3031228	-	2.74
21.0269	3.311401	2.889068	2.73603337	-	2.74
15.1586	4.473577	2.735843	49.3748829	-	2.74
535.0222	4.250711	2.7354	4.32511791	-	2.74
225.8335	3.560737	2.734684	4.72043829	-	2.73
1862.186	4.783732	2.915906	2.73451463	-	2.73
262.3295	2.992771	2.734209	11.6670679	-	2.73
921.8055	3.346124	2.733746	4.00152809	-	2.73
15.2677	3.39195	2.81596	2.7337189	-	2.73
245.1546	3.524446	4.479678	2.7328445	-	2.73
753.4295	3.377109	2.729801	4.97918704	-	2.73
796.4035	4.089942	2.729786	3.78882501	-	2.73
41.3129	3.254438	2.72935	3.91552033	-	2.73
57.2489	3.92524	2.727734	33.9453649	-	2.73
16.3105	3.411428	2.727514	5.29572974	-	2.73
5.3158	2.86548	2.727016	3.71787878	-	2.73

122.3055	2.726975	4.889827	6.05458136	-	2.73
274.0078	2.722487	3.571179	11.6786945	-	2.72
2052.094	4.554763	2.72226	3.98229511	-	2.72
1031.53	2.981927	2.721719	3.47975746	-	2.72
2963.572	3.145314	2.72171	7.1617359	-	2.72
184.7115	3.081892	2.7213	9.74802056	-	2.72
12.9718	2.720832	3.215548	4.10539015	-	2.72
7.593	2.718937	2.909536	4.73266166	-	2.72
199.1934	3.203465	2.716801	6.68788323	-	2.72
7.3377	4.500941	2.715851	18.2904044	-	2.72
37.7792	2.715638	5.379584	14.1648526	-	2.72
15.1188	3.967684	3.514836	2.71561235	-	2.72
165.8775	2.714929	2.716835	7.49948305	-	2.71
8.5682	2.772441	3.658135	2.71403562	-	2.71
81.0784	2.908763	2.712824	12.4668407	-	2.71
80.6515	4.588777	2.712375	4.87382752	-	2.71
287.1837	3.88674	2.710487	7.25220651	-	2.71
1213.436	2.707655	3.051235	3.49862671	-	2.71
60.6445	3.076842	2.705971	14.1984764	-	2.71
98.7382	4.108158	2.70574	13.2715616	-	2.71
48.2581	4.625133	2.892285	2.70548364	-	2.71
493.3282	2.704364	4.310906	6.56853896	-	2.70
18.3683	2.979137	3.172946	2.70228056	-	2.70
113.1239	4.241946	2.701776	9.15642937	-	2.70
6.5597	2.697908	5.826088	6.60482949	-	2.70
54.3305	2.697513	3.572583	4.51395993	-	2.70
45.598	2.696228	3.422897	4.30466906	-	2.70
174.3186	4.362489	2.69342	8.84415949	-	2.69
103.2083	2.693172	5.503312	7.77960203	-	2.69
26.4352	5.886756	4.971587	2.6906738	-	2.69
376.921	4.70036	2.69019	7.31820435	-	2.69
109.6075	17.47502	5.167551	2.6897101	-	2.69
19.7635	4.644437	2.689301	3.12134996	-	2.69
33.3694	2.687892	8.029117	28.4557559	-	2.69
1718.793	2.687681	2.969649	4.3281495	-	2.69
9.0129	2.686698	2.812377	3.06712601	-	2.69
812.4555	4.56956	5.495656	2.68597726	-	2.69
127.4875	5.425918	2.685627	5.5914776	-	2.69
73.7136	2.685336	6.652654	8.38977746	-	2.69
42.3538	2.697554	2.68392	4.4486091	-	2.68
35.8801	3.080685	3.213063	2.68208561	-	2.68
171.6046	6.387106	4.015013	2.68100913	-	2.68
73.2441	3.139243	2.680677	12.8557522	-	2.68
13.2465	3.798079	4.724769	2.68063262	-	2.68
84.4455	2.680351	4.258676	18.5935011	-	2.68
241.0435	3.342039	2.67855	9.6441244	-	2.68
70.8476	3.228875	2.676989	9.40578792	-	2.68
306.5935	2.675903	4.357095	3.4861972	-	2.68
13.9927	4.065981	2.675529	2.99909238	-	2.68
85.9526	3.344225	2.967517	2.67491385	-	2.67
2966.698	3.40087	2.674885	3.27542036	+	2.67
1116.588	3.218968	2.674423	4.75360693	-	2.67
10.8192	2.67424	4.625798	2.96556122	-	2.67

173.6555	3.861614	2.67281	6.79021108	+	2.67
461.9076	2.941717	2.937359	2.67045076	-	2.67
186.0822	2.669103	2.808622	22.6529604	-	2.67
14.1556	2.871011	2.668514	6.04227302	-	2.67
78.2975	3.179399	2.666558	3.09063252	-	2.67
100.6835	3.94064	2.665647	5.01720242	-	2.67
122.9914	2.665442	2.88685	9.32535283	-	2.67
69.6237	2.664763	4.656226	2.91604583	-	2.66
14.4706	2.663993	3.950114	3.13708485	-	2.66
125.6735	3.191922	2.661391	7.48437419	-	2.66
6.7269	2.660827	2.725236	2.69116532	-	2.66
126.6803	3.844721	2.660665	3.84723355	-	2.66
28.1356	2.660269	3.069318	5.45826284	-	2.66
8.2147	7.633889	2.659013	11.4113845	-	2.66
65.331	3.23726	2.658056	4.00917635	-	2.66
48.8219	3.887735	2.657929	14.7014291	-	2.66
61.5882	4.773746	4.744324	2.65717621	-	2.66
3089.474	3.770951	2.656942	2.79143728	-	2.66
31.2579	3.662299	5.421619	2.65569664	-	2.66
17.2204	2.878409	2.654856	2.75503473	-	2.65
2115.604	3.133667	2.653773	2.86305015	-	2.65
46.1689	3.917048	2.65159	16.8994496	-	2.65
174.4236	2.669773	2.650542	7.68819988	-	2.65
8521.181	4.354934	3.859445	2.64996581	-	2.65
1157.178	4.55408	2.649556	6.54901214	-	2.65
8.5385	3.072768	3.870678	2.64829888	-	2.65
25.6842	3.134585	2.647954	16.7694341	-	2.65
94.9655	3.200027	3.454046	2.64754569	-	2.65
188.9235	3.457101	2.64616	4.02363602	-	2.65
87.6543	4.692346	2.645611	7.16260925	-	2.65
10.8377	3.894286	2.645219	6.08873654	-	2.65
404.7119	4.550611	2.643422	7.68178919	-	2.64
3802.558	3.06146	2.987399	2.64330909	-	2.64
100.1686	3.806543	3.190514	2.64161524	-	2.64
1320.545	2.641205	3.404157	7.4122985	-	2.64
267.571	2.87707	2.640189	10.5098366	-	2.64
54.343	4.069955	2.64001	5.37220065	-	2.64
221.8572	3.833339	2.637851	16.7357088	-	2.64
24.9168	3.855366	3.460223	2.63781465	-	2.64
116.6955	2.637334	2.894507	4.88880462	-	2.64
109.1553	2.637145	5.334951	14.3882478	-	2.64
1294.542	3.526917	2.636843	6.76735654	-	2.64
1833.694	2.636209	2.767065	3.64448339	-	2.64
574.8175	3.120979	2.6357	8.88802133	-	2.64
124.6255	3.385157	2.635503	11.5394803	-	2.64
351.4855	3.137607	2.635437	7.38878766	-	2.64
103.3815	6.305652	2.635246	6.08166355	-	2.64
237.291	2.981565	2.635148	15.5190197	+	2.64
182.1535	3.057767	2.634829	5.71125013	-	2.63
1479.484	2.774889	2.986653	2.63421586	-	2.63
46.6358	4.265229	2.633129	13.6274171	-	2.63
51.7328	2.71679	2.632358	8.47130061	-	2.63
819.7374	4.382872	2.631736	7.42718558	-	2.63



3884.33	3.39821	3.316842	2.6316931	-	2.63
153.9455	4.249394	2.631378	9.22233842	-	2.63
218.1553	3.341837	2.62935	3.71680954	-	2.63
176.5575	3.9428	2.628252	6.44978208	-	2.63
615.3415	3.182021	2.627766	10.3829134	-	2.63
121.0485	3.146862	2.626285	5.03804343	-	2.63
87.5424	2.688834	2.626214	7.47262469	-	2.63
10.1271	6.437149	2.625191	6.18581825	-	2.63
29.1176	3.128009	2.625075	22.0776438	-	2.63
407.814	2.63764	2.624506	3.4293808	-	2.62
73.2515	3.66519	2.622016	2.64692873	-	2.62
20.7637	4.844519	2.621819	21.572817	-	2.62
317.4095	3.279259	2.621364	3.0116367	-	2.62
66.6018	3.724137	2.621244	4.12537649	-	2.62
1673.37	2.619585	2.63473	3.26741673	-	2.62
473.0795	3.850154	2.619339	4.9754629	-	2.62
9.7051	2.619114	3.621793	3.45430753	-	2.62
13.7294	2.618962	4.204496	7.27428001	-	2.62
366.2735	7.194362	4.705038	2.61450392	-	2.61
2132.58	4.378676	3.694961	2.61338698	-	2.61
6.2679	2.704723	2.689925	2.61211889	-	2.61
77.7849	5.252791	2.611501	20.6069237	-	2.61
10.6189	2.611441	3.080592	4.5788076	-	2.61
310.0435	4.033967	2.610808	6.08727969	-	2.61
86.9955	4.935008	2.610665	16.4267979	-	2.61
754.4235	2.933092	2.610618	4.30342043	+	2.61
53.7004	2.610243	3.573669	8.31370902	-	2.61
71.0176	2.609625	4.675102	18.5940598	-	2.61
105.268	2.690083	2.705066	2.60956321	-	2.61
6.0078	6.274608	2.608774	15.5550285	-	2.61
33.165	4.741485	2.608709	6.12701643	-	2.61
40.7486	2.707219	2.608428	4.5154312	-	2.61
203.3068	2.608264	2.721806	7.04879276	-	2.61
16.6265	4.19211	4.49347	2.60757225	-	2.61
22.6489	3.31947	2.606479	4.11719333	-	2.61
1403.647	10.14324	10.16835	2.6050228	-	2.61
455.1665	3.031536	2.602669	3.05877014	-	2.60
15.4364	3.892325	2.602281	4.22529217	-	2.60
42.5597	2.601722	5.396524	12.9349478	-	2.60
12.3195	2.600421	3.030896	4.40594992	-	2.60
35.8086	2.5997	2.745549	3.28136258	-	2.60
656.2617	2.73584	2.598463	6.664891	-	2.60
267.751	3.13244	2.594875	4.09430964	-	2.59
12.6862	2.938928	2.628065	2.59423626	-	2.59
24.0361	2.600527	3.181055	2.59419789	-	2.59
21.5557	4.512486	2.593574	2.72362763	-	2.59
306.4266	2.593247	2.7292	6.84889106	-	2.59
15.1304	2.751668	2.59246	3.09048009	-	2.59
555.9053	3.485599	2.592368	5.3364296	-	2.59
36.4247	2.772135	3.087948	2.59163425	-	2.59
93.3835	3.846211	2.590572	3.03770473	-	2.59
13.2131	2.589965	4.867883	4.78148958	-	2.59
38.5979	6.306432	4.238287	2.58940512	-	2.59

30.7805	4.992367	2.588769	18.3069151	-	2.59
257.8475	2.779936	2.588072	10.9652353	-	2.59
69.9703	2.887052	2.587509	10.8551971	-	2.59
2298.85	2.811551	2.586001	4.06432751	-	2.59
817.5095	3.314595	2.585405	9.33721443	-	2.59
272.4517	2.597236	2.58403	15.7359128	-	2.58
455.4929	3.373422	2.583734	3.62252277	-	2.58
147.0195	2.740464	2.583428	28.3816603	-	2.58
1005.169	2.619069	2.582737	4.27819136	-	2.58
50.4217	3.089431	2.581396	60.5195303	-	2.58
12.9891	2.756782	3.513351	2.58096404	-	2.58
18.2571	2.580155	2.583528	5.85665303	-	2.58
335.7342	3.018818	2.579461	8.04700117	-	2.58
1406.088	3.372149	2.579295	2.65807351	-	2.58
24.3698	6.23542	3.754185	2.57877783	-	2.58
33.5187	2.924069	2.947937	2.5783667	-	2.58
17.706	4.240832	4.877033	2.57712075	-	2.58
18.1096	3.180026	2.576933	9.17643129	-	2.58
389.9495	3.169716	2.576554	2.58994075	-	2.58
84.586	3.215066	2.575998	4.27642281	-	2.58
232.5477	2.590998	2.575902	2.86091628	-	2.58
47.3932	2.848491	3.249413	2.57394521	-	2.57
34.2908	3.738858	2.573217	2.76574183	-	2.57
133.245	2.572722	2.60004	12.8836609	-	2.57
3048.13	2.57168	3.485147	4.05138952	-	2.57
785.541	9.875114	10.45527	2.57085652	-	2.57
210.0075	2.570832	2.688277	6.97408283	-	2.57
17.8129	3.822929	2.570445	3.21163876	-	2.57
159.8655	11.53491	6.987829	2.5702575	-	2.57
270.2415	7.971614	8.003783	2.57023255	-	2.57
1302.625	3.647487	2.569523	3.04848332	-	2.57
367.7295	8.51284	8.732664	2.56882165	-	2.57
8.4977	2.568281	2.926255	2.98620803	-	2.57
196.6115	2.567778	3.51871	7.26618484	-	2.57
872.5966	2.756384	3.736654	2.56710546	-	2.57
784.4275	3.024012	2.56671	4.37991975	-	2.57
14.5897	2.566449	4.772911	4.11836433	-	2.57
965.8835	2.565787	2.787616	2.66091873	-	2.57
1790.599	2.658765	2.565579	3.32955402	-	2.57
1953.61	3.471972	3.577868	2.56513982	-	2.57
99.2698	2.752485	2.563548	3.22883193	-	2.56
7.8559	2.562557	2.677973	2.7375603	-	2.56
15.4421	3.312491	2.561578	3.75998083	-	2.56
309.9575	6.41528	2.957513	2.5613618	-	2.56
53.9738	3.909917	2.561315	6.83897558	-	2.56
1613.604	2.897223	2.557364	5.06430759	-	2.56
282.9815	2.842616	2.557325	12.2097151	-	2.56
262.8665	2.555667	3.068266	5.25137779	-	2.56
65.122	2.851128	2.555533	11.9385077	-	2.56
23.6499	2.875757	2.55544	21.921932	-	2.56
13.4268	2.555191	3.072143	5.19093902	-	2.56
13.2254	3.422985	2.554775	3.4443117	-	2.55
1557.21	3.454035	2.848078	2.55472673	-	2.55

124.4312	4.845665	4.468418	2.55352757	-	2.55
45.6425	4.228141	2.55242	12.5165471	-	2.55
25.3338	3.337687	2.615006	2.55192668	+	2.55
43.7995	2.63574	2.551888	5.71393509	-	2.55
19.7045	3.064071	3.279101	2.55129031	-	2.55
134.0852	2.771762	2.551218	4.76290299	-	2.55
41.427	2.924037	2.648296	2.55086538	-	2.55
42.4681	3.874768	2.550707	2.882055	-	2.55
294.0675	2.660035	2.548847	3.37742695	+	2.55
8.2534	2.548652	3.114918	3.80667361	-	2.55
158.0278	2.547883	2.664693	14.6926901	-	2.55
13.0231	2.547405	6.109981	84.0387849	-	2.55
11.6788	7.23064	2.546673	8.94809398	-	2.55
1224.888	3.641755	3.200672	2.54437693	-	2.54
44.2514	2.543709	6.086006	12.4705546	-	2.54
96.9475	2.543666	2.65719	3.7768844	-	2.54
1826.931	2.542146	3.007854	6.56112584	-	2.54
24.2739	4.264936	2.540746	57.6131565	-	2.54
34.3391	2.539502	7.368072	16.2190884	-	2.54
234.6667	2.538993	2.72952	2.76367929	-	2.54
12.2774	2.537312	2.611389	5.3154088	-	2.54
64.391	2.947208	2.536137	4.24915438	-	2.54
11.2016	2.652254	2.535431	2.9948668	-	2.54
66.9418	2.5349	4.703317	5.82654634	-	2.53
288.5055	2.534489	4.800933	9.33555686	-	2.53
75.7299	5.006588	2.533847	19.8298624	-	2.53
57.1406	2.776179	2.93955	2.53332132	-	2.53
6.5107	2.557135	2.53238	75.4931881	-	2.53
49.9147	2.747296	2.531678	5.24449711	-	2.53
82.0775	2.999092	2.531421	2.65547562	-	2.53
8.5447	2.530642	2.907007	3.04312615	-	2.53
7.0128	2.769695	2.692938	2.53015914	-	2.53
3725.284	3.533576	2.52851	4.22484879	-	2.53
81.329	2.959395	2.583414	2.52809576	-	2.53
91.0403	3.056474	2.526957	3.84453368	+	2.53
50.096	2.526292	4.191864	3.20063877	-	2.53
19.1308	4.787446	2.525996	5.45660924	-	2.53
14.045	3.958103	2.525422	4.24231399	-	2.53
59.6588	2.523783	4.863122	10.3533678	-	2.52
313.4155	2.523712	3.001491	2.7943468	-	2.52
9.2304	2.523129	2.619235	2.55751647	-	2.52
1348.632	3.867049	3.6575	2.5213585	+	2.52
217.2857	2.520285	2.647108	10.6610734	-	2.52
111.7429	3.308298	2.518836	5.18660067	-	2.52
225.7239	3.154886	2.517862	3.37395154	-	2.52
832.5755	2.724763	2.517772	8.33408322	-	2.52
160.5658	3.012012	2.517745	7.11224557	-	2.52
14.3165	2.517688	2.892411	3.39979744	-	2.52
53.5759	2.925926	2.517045	2.91098423	-	2.52
19.144	4.318244	2.51622	5.73116903	-	2.52
142.2513	2.537087	2.515818	6.18918281	-	2.52
51.6889	2.515361	6.87334	12.2402972	-	2.52
44.5546	3.793966	2.513905	14.1114834	-	2.51

424.8323	3.699611	2.513181	13.5719035	-	2.51
20.9623	2.512444	2.930787	3.70050996	-	2.51
111.8035	2.569439	2.85006	2.51193836	-	2.51
64.0021	5.366584	9.167955	2.51172227	-	2.51
30.5661	4.173979	2.509205	3.12789332	-	2.51
6.4471	2.549003	2.507575	2.53907959	-	2.51
35.723	3.608497	2.507461	3.20559583	-	2.51
18.8544	2.506711	3.768376	4.19962979	-	2.51
102.3215	3.311551	3.285371	2.50590932	-	2.51
10.5498	2.505323	2.682213	4.03117595	-	2.51
404.8015	3.153743	2.505156	5.09162021	-	2.51
313.822	2.505061	3.057291	5.52988478	-	2.51
4575.446	3.190321	2.505	4.1221563	+	2.50
117.2006	3.502961	2.504624	4.3456612	-	2.50
443.8855	2.847772	2.50387	6.54052791	-	2.50
10.6062	3.047956	3.436178	2.50363938	-	2.50
62.2424	3.567917	2.502758	3.04156652	-	2.50
43.4602	2.501733	6.24508	3.26366423	-	2.50
6.7096	2.501184	3.251911	2.86553595	-	2.50
9.8458	2.972596	2.500365	3.8241179	-	2.50
16.6588	2.500146	6.664933	3.70858645	-	2.50
1742.142	3.493815	2.793518	2.49991146	-	2.50
439.5182	2.876759	2.498763	4.76525773	-	2.50
22.9088	3.190737	4.828062	2.49793093	-	2.50
1836.493	2.496087	3.094025	4.24783519	-	2.50
91.0679	3.814262	2.955251	2.49489996	-	2.49
352.6705	2.49402	3.185492	10.1941699	-	2.49
26.659	2.798833	4.102945	2.49399452	-	2.49
24.5848	2.492858	5.66626	7.52269288	-	2.49
159.5972	3.381205	2.490189	21.371061	-	2.49
17.0426	2.490134	3.961902	3.23824416	-	2.49
194.5575	3.575205	2.489974	5.2997263	-	2.49
875.457	2.487921	3.46583	7.2408309	-	2.49
124.4395	3.155394	3.376562	2.48764661	-	2.49
19.1719	2.485967	3.52343	3.72852978	-	2.49
263.6575	4.971272	3.019825	2.48489612	-	2.48
14.2137	3.02112	2.484029	7.23298648	-	2.48
56.9835	2.48297	7.006029	43.5588302	-	2.48
95.9435	2.482203	3.802706	4.43814016	-	2.48
692.9385	4.612348	3.683485	2.48204639	-	2.48
575.8955	2.481528	2.986236	5.32979942	-	2.48
6498.314	2.481191	2.610674	2.50345858	-	2.48
949.2092	2.481167	4.08106	13.7880116	-	2.48
28.2317	3.347537	3.384072	2.4810479	-	2.48
1978.008	2.480713	2.500565	4.91702544	-	2.48
15.6647	2.803984	2.476913	13.875644	-	2.48
47.8184	2.924877	2.476641	8.39183243	-	2.48
168.7156	4.538732	2.476567	4.43671777	-	2.48
93.6055	3.948688	2.476229	3.80812986	-	2.48
312.8215	2.475916	3.187124	4.30466033	-	2.48
14.8307	3.993803	2.475228	4.04986953	-	2.48
214.5834	2.591454	2.474435	16.9846288	-	2.47
7.6251	3.362027	3.263762	2.47344953	-	2.47

20.6616	3.114702	3.706029	2.47344833	-	2.47
203.6355	3.095788	2.716821	2.47341696	-	2.47
2410.16	2.825594	2.473202	3.33487784	-	2.47
226.4515	3.646617	2.471164	4.70531218	-	2.47
655.8635	5.389998	2.470669	4.04514369	-	2.47
20.7114	2.470616	2.716525	3.24590322	-	2.47
515.3107	2.91442	2.470563	7.63650027	-	2.47
12.3934	2.470178	2.979928	2.51803379	-	2.47
28.2802	2.820266	2.469825	6.42674026	-	2.47
25.6668	2.469105	2.754173	3.58235152	-	2.47
55.9535	3.44607	2.468964	4.23794579	-	2.47
308.5895	4.63975	5.325127	2.46885652	-	2.47
106.2295	2.468626	2.677951	10.9173958	-	2.47
60.8837	3.539115	3.032868	2.46797583	-	2.47
532.7815	3.738661	2.467867	4.88207924	-	2.47
289.6401	2.467507	3.309894	6.35616719	-	2.47
18.8901	3.013642	2.46651	2.58335848	-	2.47
22.3878	2.652266	2.466428	11.5599344	-	2.47
742.2015	3.002513	2.466132	11.7827537	+	2.47
698.3595	5.383942	3.551712	2.46609876	-	2.47
273.0681	2.465669	4.648261	11.5124465	-	2.47
339.5331	2.85479	2.4655	12.1903152	-	2.47
124.3032	2.464889	2.527349	3.62873683	-	2.46
615.8415	3.942284	3.088945	2.46321415	+	2.46
715.0365	2.504003	2.462772	3.33673526	-	2.46
24.7369	2.462081	3.878207	4.80015685	-	2.46
900.8231	3.611082	2.461345	3.5880815	-	2.46
784.5295	2.460097	2.787515	2.69290804	-	2.46
28.1215	3.756138	2.45876	2.66022438	-	2.46
200.5795	2.808135	2.458684	6.66197243	-	2.46
313.3175	2.84029	2.457373	4.19193151	-	2.46
13.1691	3.828262	3.611717	2.45627264	-	2.46
22.1448	2.735645	3.738307	2.45606192	-	2.46
170.8795	2.844321	2.454831	3.17119959	-	2.45
1246.107	2.622463	2.454353	13.5882845	+	2.45
90.9275	4.10603	2.453243	2.51135795	-	2.45
617.4171	2.61165	2.452477	2.46219857	+	2.45
1630.876	2.452318	3.638251	4.10520699	+	2.45
122.6553	4.311911	3.160825	2.45146765	-	2.45
1201.513	3.363975	2.450664	7.6738252	+	2.45
39.8614	2.449754	2.463388	3.9527839	-	2.45
275.4355	4.866859	2.861727	2.44964611	-	2.45
55.0343	2.449182	5.404612	13.0992036	-	2.45
632.7146	3.825278	4.088386	2.44877153	-	2.45
1902.307	2.703369	2.839594	2.44867164	-	2.45
73.6715	2.653812	2.448149	4.46464915	-	2.45
11.6881	4.300526	4.587734	2.44790856	-	2.45
31.2944	2.446736	2.97859	8.31427668	-	2.45
534.6355	2.446476	2.480774	5.85527429	-	2.45
6.5157	2.445749	4.398307	7.36082079	-	2.45
29.6384	2.443346	3.088708	12.7660569	-	2.44
18.621	2.441601	3.167046	6.23998711	-	2.44
34.2793	4.383444	2.441492	7.40649605	-	2.44

28.0879	2.441014	2.849581	3.32246982	-	2.44
16.4172	3.562892	4.134693	2.4408669	-	2.44
127.9115	3.719912	2.602907	2.44071487	+	2.44
1699.146	3.238309	2.440124	5.63572713	-	2.44
37.1451	4.124492	2.439309	3.10273764	-	2.44
14.0953	2.525163	2.438111	4.73301739	-	2.44
224.8015	3.844928	2.437246	16.5697093	-	2.44
36.062	4.937809	2.432823	2.79506128	-	2.43
323.5197	2.551284	2.431684	7.45079666	-	2.43
5086.138	2.525022	2.428244	2.46522386	+	2.43
61.1627	2.425551	5.145069	9.72872192	-	2.43
39.5563	2.48461	2.422416	2.97225726	-	2.42
694.2355	2.557207	2.421228	5.34961335	-	2.42
12.6	2.42064	2.614327	8.59742063	-	2.42
70.4836	4.527719	2.420246	4.91480997	-	2.42
2372.083	3.032265	2.418362	5.3401958	-	2.42
1009.365	2.958979	2.418156	6.04508843	+	2.42
318.4299	4.888125	3.498962	2.41766775	-	2.42
745.3116	3.36237	2.416137	3.66221256	-	2.42
40.9564	2.415884	5.246523	31.481075	-	2.42
3048.407	2.415352	2.583099	5.01090898	+	2.42
42.6408	2.470809	2.414226	3.688193	-	2.41
53.1105	3.828667	2.414193	5.54243135	-	2.41
1030.524	2.862665	2.413979	2.41521081	-	2.41
3651.156	2.429929	2.413347	2.47497798	-	2.41
916.505	2.774506	2.413115	3.48848888	-	2.41
65.5006	2.536745	2.412972	6.46749801	-	2.41
192.1121	2.431407	2.412526	5.73019242	-	2.41
276.4273	2.410523	2.662357	3.01449061	-	2.41
856.3755	2.452365	2.410515	2.68561583	-	2.41
104.1375	3.152546	2.408827	5.10157724	-	2.41
2049.042	2.720899	2.408676	3.94284207	-	2.41
55.4818	4.041898	2.408328	7.40422084	-	2.41
155.4013	2.40804	5.167961	13.1610147	-	2.41
246.8655	2.407872	3.019145	4.033323	-	2.41
1974.852	2.821927	2.407091	3.18656559	-	2.41
62.9943	3.362269	2.407047	18.2879324	-	2.41
31.2579	2.752688	4.503559	2.40679956	-	2.41
447.5657	3.791391	2.405931	11.4835909	-	2.41
1645.77	3.469645	3.482765	2.40452961	-	2.40
12.9108	2.403534	4.036232	2.59284475	-	2.40
20.3706	3.696176	5.137392	2.40353254	-	2.40
1532.196	2.403108	2.464366	3.43698275	-	2.40
2127.845	2.403057	2.532324	5.10230466	-	2.40
112.8475	2.401467	2.609239	4.12894393	-	2.40
591.4155	3.157371	2.399849	4.93563916	-	2.40
187.1775	3.636238	2.399378	6.62009857	-	2.40
1788.17	3.46389	2.398946	3.09002335	-	2.40
3295.022	3.860864	2.439083	2.39695787	-	2.40
27.9646	4.501803	2.396264	2.4421161	-	2.40
65.172	2.395477	7.549589	8.55734825	-	2.40
733.2104	2.440868	2.914862	2.39541106	-	2.40
548.2595	2.395058	2.405349	4.85820583	-	2.40

302.9589	4.630627	3.671169	2.3946598	-	2.39
8136.432	3.513406	2.672363	2.39303031	-	2.39
402.4993	2.511275	2.392301	7.48968632	-	2.39
38.3816	3.383083	2.390959	11.973172	-	2.39
34.3624	3.338477	2.389987	3.52273124	-	2.39
108.4749	4.291588	3.084837	2.38970951	-	2.39
145.5058	2.3896	2.591119	3.35748472	-	2.39
9.1464	3.027409	2.387657	4.61677819	-	2.39
1341.578	2.994903	2.386941	3.02793346	-	2.39
1865.159	2.587738	2.386677	3.18075003	-	2.39
2312.01	2.438688	2.386611	4.31831327	-	2.39
123.4655	2.790236	2.386312	41.5653563	-	2.39
562.1895	3.146398	2.386311	7.93380079	-	2.39
21.2195	6.276699	2.385893	6.99262	-	2.39
1977.98	2.3852	2.701301	2.53658546	-	2.39
208.6575	2.885792	2.385009	2.63821765	-	2.39
7.0979	3.088762	2.383853	2.97344285	-	2.38
143.5144	2.532185	2.382814	5.40300834	-	2.38
1843.864	2.968593	2.38266	2.81591788	-	2.38
203.1359	3.50014	2.382165	10.8380656	-	2.38
31.258	2.380891	3.078442	3.94886109	-	2.38
8.9626	2.380842	2.398912	2.96589159	-	2.38
26.9132	2.380599	3.862622	2.88770938	-	2.38
205.0555	3.519739	2.379799	2.85676561	-	2.38
1246.262	2.379233	2.561423	4.69260837	-	2.38
227.9815	3.688913	2.378923	12.249018	-	2.38
420.8502	2.468481	2.378859	3.85887306	-	2.38
7.5383	2.376548	2.991795	2.8393537	-	2.38
139.7159	2.375952	4.249821	7.69301848	-	2.38
78.8655	2.530267	2.374482	4.68280173	+	2.37
18.3272	2.736917	4.651226	2.37398512	-	2.37
348.9134	3.171775	2.372902	4.60655567	-	2.37
9.1092	3.353218	2.37179	5.88502832	-	2.37
588.5875	2.660939	2.369444	3.45902453	+	2.37
443.0355	2.573715	2.368784	5.71505624	-	2.37
123.2055	3.595375	2.367664	4.24201436	-	2.37
19.6249	3.680301	2.36762	6.31857997	-	2.37
18.9959	2.367386	4.247523	3.05335362	-	2.37
9.4704	2.36667	2.637121	3.87832615	-	2.37
1675.843	2.770083	2.364359	2.46336216	-	2.36
466.9235	2.364207	2.425621	3.3997475	-	2.36
1283.55	2.364026	2.48042	3.88843718	-	2.36
160.3415	2.36393	2.365427	5.01485579	-	2.36
117.8295	2.363918	3.977503	9.15040546	-	2.36
128.4255	2.917522	2.363425	3.55438367	-	2.36
472.3895	2.362155	3.446279	3.47645217	-	2.36
203.2267	5.743998	4.370285	2.36105246	-	2.36
64.0261	2.917441	2.360379	12.0987769	-	2.36
223.1295	3.684657	2.359872	2.86960487	-	2.36
1172.231	3.087829	2.358933	5.75795014	-	2.36
2115.46	2.53879	2.358611	4.30597239	-	2.36
80.1339	2.358139	5.927083	6.37719492	-	2.36
13.1906	4.311883	2.357524	3.5192713	-	2.36

481.3915	2.434451	2.356655	3.84147144	-	2.36
103.5455	2.650667	2.355893	2.81501272	-	2.36
519.4867	2.659182	2.354914	4.0981515	-	2.35
34.0115	6.311086	2.354496	4.56118666	-	2.35
36.7694	2.353766	2.794156	5.60377651	-	2.35
18.4175	2.755565	2.352594	7.7971223	-	2.35
493.9054	2.351859	2.523876	5.5470578	-	2.35
49.1657	2.546986	2.351486	16.4335055	-	2.35
435.4035	2.749467	2.350388	8.02305907	+	2.35
407.1455	3.565837	2.349934	6.8738844	-	2.35
581.2469	2.349909	2.394949	5.08715573	-	2.35
1785.621	2.694906	2.349698	3.32421316	-	2.35
28.7699	2.882522	3.220757	2.34869777	-	2.35
3175.154	3.136181	2.347795	3.60239009	+	2.35
400.6914	2.784377	2.347553	3.89801403	-	2.35
85.9595	3.267125	2.347289	2.85968974	-	2.35
4791.528	2.826299	2.346188	4.41334093	-	2.35
216.4279	2.344717	3.172385	6.98927449	-	2.34
56.1686	2.344438	5.06292	5.26973256	-	2.34
14.9768	4.0814	2.344203	2.88249826	-	2.34
10.6654	2.343221	2.749576	2.38630525	-	2.34
711.1675	2.342289	2.484406	2.72119648	+	2.34
25.9144	6.679573	2.340513	44.0981655	-	2.34
1105.264	3.525204	2.339091	3.43062696	-	2.34
9.8353	2.784496	2.338949	2.7186156	-	2.34
8.1771	2.336114	2.358293	79.2510181	-	2.34
2818.857	2.554893	2.335479	3.22524331	-	2.34
96.3375	2.335094	3.048922	2.78567121	-	2.34
6.7165	3.918549	2.334338	5.15365146	-	2.33
326.7031	2.334137	2.381142	3.88268584	-	2.33
27.4355	2.70467	2.333658	5.22422044	-	2.33
490.4119	2.333507	2.466151	7.81785984	-	2.33
3156.106	2.344668	2.332739	6.51892704	-	2.33
158.8555	2.456017	2.332193	8.47384888	-	2.33
1495.469	3.036132	2.94946	2.33198914	-	2.33
383.6266	2.965112	2.331663	4.66749803	-	2.33
389.7921	3.228938	2.331641	3.55960729	+	2.33
5568.524	2.46133	2.457912	2.33117393	-	2.33
10.0046	2.973906	2.330834	2.64740219	-	2.33
1578.034	2.32921	2.651878	2.62954048	-	2.33
1060.04	2.533174	2.329151	3.13841455	-	2.33
5973.83	2.41885	2.326873	5.44656862	-	2.33
19.996	2.477808	2.326267	2.54094319	-	2.33
528.3722	2.367184	2.325835	3.10098733	-	2.33
52.5294	2.325644	3.651458	2.38992831	-	2.33
7.3215	2.863858	2.325611	4.93722598	-	2.33
11.4704	2.325582	3.904916	10.1900108	-	2.33
89.5635	2.323488	3.317447	2.61570283	-	2.32
1456.899	2.820764	2.322618	2.57829334	-	2.32
377.6039	3.219343	2.321735	5.03003147	-	2.32
871.6135	2.783108	2.321508	8.8338353	-	2.32
351.6455	3.027774	2.320889	3.5842236	-	2.32
145.7455	2.342896	2.320259	3.26902374	+	2.32

1366.24	2.383942	2.320156	4.00364153	-	2.32
13.3149	2.948072	2.443051	2.31910867	-	2.32
55.0602	2.74899	2.318364	5.72150846	-	2.32
154.3275	4.370551	2.317802	7.90632583	-	2.32
80.8395	3.007885	2.787243	2.31696386	-	2.32
32.9106	2.315859	2.628562	3.669137	-	2.32
569.1995	3.14401	2.315573	10.3069899	-	2.32
65.9376	3.436582	2.314787	2.69666321	-	2.31
189.9095	3.758425	2.313492	5.52726167	-	2.31
5121.65	2.928091	2.313403	3.53466347	-	2.31
25.4795	2.884547	2.312507	3.55899841	-	2.31
46.123	3.098612	2.312128	4.42752206	+	2.31
946.71	3.978863	2.311574	4.04483686	+	2.31
765.2475	3.536613	2.311053	5.00535252	-	2.31
49.7807	3.111146	2.310595	8.05046132	-	2.31
152.8095	2.392431	2.310375	2.70837546	-	2.31
9.3492	3.205426	2.310339	4.32203825	-	2.31
2373.702	2.63179	2.309398	3.99734255	-	2.31
2335.832	3.276706	2.309018	3.90966847	-	2.31
860.6919	2.308551	2.69687	3.19188562	-	2.31
5.9602	3.392156	2.308297	4.63804906	-	2.31
44.5012	2.784538	2.308296	3.02862619	-	2.31
360.6492	3.143065	2.305	11.4020148	-	2.30
175.2835	2.304869	2.59772	4.4458463	-	2.30
71.5698	2.304833	2.430358	11.7522516	-	2.30
11.0362	2.303527	3.614842	2.86666606	-	2.30
83.0436	4.230533	2.303289	5.18235602	-	2.30
1489.477	2.302971	2.467473	3.04406649	-	2.30
15.1066	2.618558	2.302775	2.54967365	-	2.30
4.6282	4.55024	2.30216	5.03906486	-	2.30
876.2695	2.559796	2.492328	2.30086463	-	2.30
725.6435	2.300507	2.310617	4.89654424	-	2.30
43.3075	2.300111	4.794427	3.34102638	-	2.30
491.8533	2.504672	2.298191	2.90253517	-	2.30
157.0522	6.727103	2.297717	12.3955061	-	2.30
7.6606	3.388205	2.297675	3.36202125	-	2.30
313.1495	4.593958	5.160809	2.2974592	-	2.30
68.8177	2.297186	3.180374	3.36476517	-	2.30
486.1855	2.297122	2.373039	6.34115065	-	2.30
110.4994	3.07206	2.296956	4.32930677	-	2.30
32.7451	2.632193	2.335028	2.29687801	-	2.30
75.8315	3.084147	4.80758	2.29679619	-	2.30
151.6565	2.296238	4.934374	2.50298866	-	2.30
74.4195	2.336966	2.294851	3.02524876	-	2.29
435.6475	2.331471	3.829637	2.29466139	-	2.29
7.1404	2.293151	2.706788	3.09625511	-	2.29
7.9258	3.392941	2.899239	2.29219763	-	2.29
55.2401	4.542824	4.855017	2.29205776	-	2.29
324.3708	3.34828	2.291131	2.44878855	-	2.29
434.4795	2.502195	2.290946	3.80907615	-	2.29
49.58	2.719292	3.141921	2.28873538	-	2.29
7012.539	2.287969	2.378558	2.57950267	-	2.29
1914.82	2.685886	2.30112	2.2877514	-	2.29

46.7035	3.999512	2.287616	12.0183177	-	2.29
614.6163	3.874985	3.363077	2.28756217	-	2.29
168.2562	3.251957	2.286965	12.9632447	+	2.29
462.0443	3.462201	2.286957	4.34510609	+	2.29
51.6889	3.065905	2.286929	8.48812221	-	2.29
14.8021	2.286257	4.611871	15.1871356	-	2.29
6.5638	2.695801	2.763144	2.285094	-	2.29
132.3455	2.867961	2.284932	4.3069957	-	2.28
325.5375	2.574393	2.284395	5.20341128	-	2.28
132.8835	2.284326	2.438048	29.0795802	-	2.28
1588.116	2.893443	2.28168	5.14967739	-	2.28
432.5484	2.28152	2.329366	3.35423157	-	2.28
442.9799	3.545831	2.281374	10.7606812	-	2.28
48.0666	2.735246	2.2803	2.54128438	+	2.28
6217.172	3.005255	2.279489	2.5070329	-	2.28
66.8638	4.745266	3.014304	2.27742814	-	2.28
103.1635	3.647982	3.111846	2.27726279	-	2.28
1261.975	2.277155	2.352225	3.24158264	-	2.28
130.3981	2.567108	2.276759	4.9495008	-	2.28
382.0355	2.316739	2.276531	3.33084281	-	2.28
60.8029	2.812098	2.276128	6.91518826	-	2.28
11.1058	2.77509	2.275243	7.05446704	-	2.28
12.5088	3.156531	2.275199	2.467327	-	2.28
39.696	2.53481	2.275174	5.45795798	-	2.28
221.4315	3.027766	2.274973	5.27129835	-	2.27
54.0734	3.626935	2.274203	4.69490544	-	2.27
49.9626	3.308757	2.273752	10.483994	-	2.27
40.7865	2.593887	2.2735	4.59267405	-	2.27
689.1935	2.273423	2.275003	4.42850012	-	2.27
283.1132	2.273349	2.436019	3.66725889	-	2.27
523.7995	2.759495	2.272512	2.37029913	-	2.27
109.0492	3.804202	2.272017	3.7860021	-	2.27
3826.644	2.272011	2.449572	3.78571584	-	2.27
2108.182	2.271403	2.525422	3.80538794	-	2.27
39.8812	2.2689	6.832382	14.3949906	-	2.27
16.1261	2.982237	2.742896	2.26856463	-	2.27
47.0401	4.122682	2.268492	8.57624665	-	2.27
11.3687	2.573703	2.268167	2.88960039	-	2.27
1809.147	3.488432	2.726784	2.26764305	-	2.27
49.9684	2.400999	2.267602	7.41452998	-	2.27
420.4085	2.322445	2.267527	4.19572273	-	2.27
3372.916	2.6021	2.267365	5.1521685	-	2.27
1749.376	2.814175	3.033662	2.26732778	-	2.27
41.1499	4.885014	2.266991	5.75412091	-	2.27
893.1595	2.265714	2.441165	8.37616965	-	2.27
2664.925	2.265173	2.826859	3.83602469	-	2.27
622.3175	2.740174	2.264941	3.74879752	-	2.26
131.4455	2.368259	2.26338	4.72499629	-	2.26
436.5355	2.262975	4.603974	3.50008075	-	2.26
149.4124	5.758651	3.474352	2.26278073	-	2.26
1651.68	2.915542	2.260484	4.70496576	+	2.26
107.3983	3.748553	2.260173	2.26625934	-	2.26
1534.731	3.714363	2.259757	3.51067399	-	2.26



8.2698	2.259456	3.513533	4.58524995	-	2.26
24.0017	2.258997	3.434938	6.14046088	-	2.26
674.3751	2.438796	2.25849	5.20723467	+	2.26
117.7655	3.645641	2.258193	7.46286052	-	2.26
9479.668	2.400277	2.257382	2.64527163	-	2.26
1590.628	2.829787	2.256869	4.05797812	-	2.26
132.9297	3.046501	2.255815	3.37817282	-	2.26
1304.649	3.051563	2.255793	8.63606296	-	2.26
911.9175	2.52598	2.255751	4.14797336	-	2.26
5445.062	3.921415	3.420887	2.25548154	-	2.26
1699.54	2.321528	2.254464	5.79577085	-	2.25
22.1784	3.469036	2.253663	2.6366104	-	2.25
66.8812	3.083067	2.251959	8.92300826	-	2.25
375.9415	3.675557	2.251708	4.01683108	-	2.25
423.2135	2.274188	2.250458	3.67862249	-	2.25
1149.51	2.417995	2.249353	4.26381374	+	2.25
38.6193	2.248892	2.77281	2.73064245	-	2.25
81.1755	2.282494	2.248751	4.97565768	-	2.25
616.7135	2.540535	2.24869	11.6354798	-	2.25
61.4906	2.670276	2.248593	3.03857012	-	2.25
477.0092	2.789285	2.248372	3.8809807	-	2.25
1907.278	2.470401	2.248017	4.12720409	+	2.25
1280.56	2.337641	2.247855	4.46252556	-	2.25
620.627	3.94985	2.570141	2.24780021	-	2.25
11.9399	2.247339	2.358655	5.87220999	-	2.25
72.2276	2.60226	2.247193	5.23140877	-	2.25
59.7947	2.24623	7.33735	11.8509082	-	2.25
76.576	3.935459	2.245777	5.13797404	-	2.25
1476.824	2.398051	2.245214	4.46121185	-	2.25
74.9075	3.541235	2.244905	4.03705236	-	2.24
310.6151	2.252853	2.244626	3.41832126	-	2.24
45.531	2.539206	2.2435	2.95265863	-	2.24
29.7467	2.243336	2.484899	2.4043541	-	2.24
383.4055	2.62542	2.243082	7.2832745	-	2.24
54.532	5.473972	6.280999	2.24282073	-	2.24
117.5516	2.429935	2.724112	2.2411222	-	2.24
13.0424	3.94141	3.049877	2.24056922	-	2.24
157.1055	2.700315	2.366934	2.24044034	-	2.24
3836.34	2.239175	2.446395	2.3049575	-	2.24
25.7852	2.239106	2.769434	3.50633309	-	2.24
6.9893	2.309567	2.341126	2.23809251	-	2.24
44.0456	2.237826	5.503884	13.2423171	-	2.24
48.2349	2.237792	5.036194	10.6908794	-	2.24
2414.2	2.2373	2.357079	2.76207062	-	2.24
5450.18	2.518767	2.37657	2.23717189	-	2.24
141.3385	2.28028	2.236277	8.06963071	-	2.24
39.2887	2.639652	3.226451	2.23625368	-	2.24
301.8504	2.423851	2.235891	11.0032125	-	2.24
32.4268	2.235773	2.738548	5.3409988	-	2.24
12.5088	2.234767	3.262883	6.09135169	-	2.23
284.327	2.332717	2.234174	7.10855283	-	2.23
2512.825	2.6843	2.23382	3.19356867	-	2.23
51.617	2.733847	2.233463	3.29004979	-	2.23

302.2852	2.606523	2.233412	34.1279732	-	2.23
969.7695	2.510148	2.231715	3.79958372	-	2.23
27.0376	2.231637	2.315599	4.43750555	-	2.23
2738.282	2.648008	2.231304	8.95165727	-	2.23
345.2035	2.228816	2.315024	2.73523965	-	2.23
27.5235	2.228765	2.638109	2.36241757	-	2.23
107.9435	2.429072	2.228582	3.38437701	-	2.23
222.3006	23.30182	21.66822	2.22804842	-	2.23
47.798	2.665176	2.227818	27.0294175	-	2.23
1004.505	2.225674	2.376498	3.34398452	-	2.23
24.8032	4.414628	2.225487	33.6165293	-	2.23
825.9479	2.785078	2.225457	4.10006721	-	2.23
21.6283	5.001995	2.225018	2.4921746	-	2.23
6.176	2.292044	2.625041	2.2246114	-	2.22
71.9801	2.223377	2.548718	4.12374392	-	2.22
3245.434	2.320461	2.222459	4.65481998	-	2.22
42.6413	4.08698	2.222368	12.3587109	-	2.22
2892.312	3.528616	2.9645	2.22199478	+	2.22
7.157	2.395474	2.221935	2.46241442	-	2.22
2962.252	2.614325	2.275633	2.2212778	-	2.22
16.7454	4.46151	2.221189	3.43057795	-	2.22
14.3716	2.220769	2.658654	2.60972334	-	2.22
6.4024	2.26043	2.363899	2.22060477	-	2.22
9.0695	2.804374	2.808365	2.21950493	-	2.22
242.7458	2.470292	2.218608	5.79265841	-	2.22
10.8649	2.408604	2.762996	2.21852939	-	2.22
261.5057	2.679882	2.218125	2.83835305	-	2.22
23.0772	2.216928	2.840168	2.36139133	-	2.22
2224.648	3.185992	2.216498	2.73710846	-	2.22
33.8135	3.615072	2.216394	3.70193857	-	2.22
43.0297	2.90357	2.216347	9.8870199	-	2.22
964.2132	2.561061	2.216048	2.48052277	-	2.22
7.3674	2.992757	2.214915	3.7071287	-	2.21
157.8173	3.382466	2.214224	2.3260479	-	2.21
1281.312	2.586363	2.213837	4.42248323	-	2.21
467.2295	3.219629	3.441103	2.21374078	+	2.21
9.4547	3.704872	2.213277	2.86089458	-	2.21
9.3242	2.459859	2.211128	2.87898157	-	2.21
16.1597	3.222032	2.210901	10.5413652	-	2.21
609.6772	2.567523	2.210526	4.92625196	-	2.21
64.8352	2.210447	7.519763	8.11501006	-	2.21
1862.47	2.71405	2.210373	2.37786697	-	2.21
58.2714	3.844206	2.209369	4.34376898	-	2.21
57.2043	2.739802	2.208137	5.1810703	-	2.21
2678.869	2.630725	2.433508	2.20734205	-	2.21
17.1254	4.583171	3.479212	2.20626671	-	2.21
2574.341	2.763993	2.206137	2.25110845	-	2.21
1512.874	2.205762	2.475908	6.79424968	-	2.21
5.9846	2.268129	2.205536	84.2919326	-	2.21
10.1898	2.20441	2.267589	2.86122397	-	2.20
12.2519	2.673086	2.204046	2.5424628	-	2.20
11.6043	2.570352	2.203806	3.08044432	-	2.20
119.4255	3.095904	2.682067	2.20326061	-	2.20

1516.442	2.557629	2.202717	4.38026788	-	2.20
216.9735	3.169133	2.201779	12.2606747	-	2.20
1063.363	2.959263	2.201017	4.4732785	-	2.20
710.5955	2.470499	2.200773	3.77806994	+	2.20
90.7694	2.416293	2.200282	4.2764577	-	2.20
1311.44	7.869204	6.497693	2.19985161	-	2.20
664.2693	2.66983	2.199779	3.88298887	-	2.20
183.8445	2.904834	2.199765	4.19578231	-	2.20
49.6894	3.333145	3.520671	2.19925175	-	2.20
56.3352	2.86804	2.198644	4.10477818	-	2.20
32.2866	2.198619	2.436657	3.63598211	-	2.20
96.487	2.715326	2.198617	9.83630748	-	2.20
158.0455	4.467017	3.787118	2.19780127	-	2.20
70.4857	2.798519	2.196802	2.8972969	-	2.20
284.7839	2.196719	2.770958	3.26758465	-	2.20
1429.448	2.367081	2.1967	4.94922374	-	2.20
659.3375	3.019319	2.22743	2.19614022	-	2.20
10.7973	3.301726	2.195149	119.460476	-	2.20
414.3432	2.194872	3.347699	19.6955169	-	2.19
2511.884	2.806378	2.194807	3.35604596	-	2.19
2462.108	2.565694	2.194179	2.84369854	-	2.19
441.9395	2.45319	2.194104	3.44089519	-	2.19
18.2478	3.173407	2.193581	22.4153871	-	2.19
2377.462	3.471426	2.856196	2.19321381	-	2.19
1268.438	2.492049	2.190916	2.37290012	-	2.19
29.6321	5.155854	2.189755	31.3998502	-	2.19
295.3815	2.548886	2.189177	36.7799151	-	2.19
2362.095	2.500863	2.189038	2.24834572	-	2.19
27.8564	3.295505	2.188754	5.56669203	-	2.19
37.2744	3.058381	4.422812	2.18824448	-	2.19
1979.354	2.62112	2.188085	4.73278548	-	2.19
24.1938	3.331094	2.187053	7.61474014	-	2.19
253.5334	2.445717	2.18614	4.03222416	-	2.19
39.3142	2.183314	4.462151	3.27152784	-	2.18
42.2043	2.183062	2.458684	5.15079743	-	2.18
270.8455	2.595326	2.1824	4.99730474	-	2.18
216.5955	2.372306	2.182125	3.22795487	-	2.18
109.2795	4.238732	2.181351	2.85252678	-	2.18
246.7235	2.180988	5.61419	16.5673489	-	2.18
71.3996	2.180672	2.602295	2.2098093	-	2.18
39.4367	2.949635	2.304587	2.18064645	-	2.18
1686.559	2.248897	2.180057	2.46306918	-	2.18
69.9036	2.273523	2.179193	3.86048072	-	2.18
61.6175	3.431139	2.178764	4.71488944	-	2.18
1223.401	2.241508	2.177989	3.97311028	-	2.18
326.0975	2.177717	2.283535	2.7577381	-	2.18
150.6252	3.097409	2.177644	2.26922122	-	2.18
142.9155	5.410301	7.244566	2.17760495	-	2.18
160.3966	2.177348	2.373672	2.43196863	-	2.18
14.5747	2.952813	2.540486	2.17637413	-	2.18
306.5935	2.713157	2.175102	4.50522337	-	2.18
369.2836	2.614833	2.174617	4.30505308	-	2.17
18.0089	2.808197	2.981263	2.17254802	-	2.17

9.0909	2.171855	3.051358	3.65791066	-	2.17
108.6575	2.171505	2.193204	8.0413179	-	2.17
56.1833	2.957608	2.171268	5.70681145	+	2.17
282.43	3.624301	2.169989	22.9569915	-	2.17
7.5889	2.169975	2.66269	68.7411219	-	2.17
9791.012	2.169092	2.179213	3.21758024	-	2.17
39.7829	2.665613	2.168205	3.61536741	-	2.17
28.6897	2.168174	2.404787	5.18853456	-	2.17
1780.574	4.18147	3.239289	2.16805175	-	2.17
2088.392	2.406569	2.287034	2.16801762	-	2.17
1485.251	2.576316	2.75776	2.16759918	-	2.17
155.2575	3.639645	2.16587	3.06539459	-	2.17
3772.896	2.470472	2.164648	3.02271044	-	2.16
1399.314	2.246516	2.163747	2.40902435	-	2.16
30.3429	2.510093	2.163119	2.94044076	-	2.16
2804.281	3.582754	3.17228	2.16175752	-	2.16
709.3039	3.901495	2.161519	2.93783454	-	2.16
334.8442	4.22898	2.855401	2.16111105	-	2.16
1962.148	2.870646	2.161048	4.44194522	-	2.16
45.6488	3.114711	3.913919	2.1603087	-	2.16
482.8635	2.527799	2.160071	6.13687139	-	2.16
24.9566	3.635053	2.159287	7.14526418	-	2.16
1112.644	2.323903	2.158639	5.12662546	-	2.16
738.7595	3.78165	3.49814	2.15814416	-	2.16
47.7211	2.157829	2.326575	2.82222329	-	2.16
71.7172	2.15596	2.547692	2.89583949	-	2.16
140.6595	2.155781	2.570053	5.26955094	-	2.16
87.2526	2.155323	6.206327	6.28904468	-	2.16
33.3002	2.153957	2.413708	2.39792854	-	2.15
3116.884	2.595695	2.153878	2.4297668	-	2.15
34.3499	4.291774	2.153794	5.91022099	+	2.15
54.0374	3.248208	2.153136	4.33602468	-	2.15
1505.898	2.871706	2.65116	2.1523296	-	2.15
160.9955	4.102656	2.83209	2.15219369	-	2.15
4358.081	2.820853	2.15197	3.61360267	-	2.15
86.3512	2.151724	2.161369	3.81886413	-	2.15
40.8733	3.285815	2.149993	11.8297152	-	2.15
30.6339	2.149921	3.234487	5.70849614	-	2.15
121.2384	2.147867	2.956035	3.04592852	-	2.15
952.8675	2.14766	2.163976	3.49687601	-	2.15
143.6855	2.988626	2.147321	14.5501634	-	2.15
217.5355	3.383839	3.332036	2.14715851	-	2.15
2648.818	2.89743	2.147147	2.20254339	-	2.15
467.5052	2.146909	2.361978	4.6157508	-	2.15
22.7536	4.124961	2.146646	3.44817523	-	2.15
125.5455	2.628941	2.146497	3.61526379	-	2.15
299.9015	2.155543	2.14568	7.85281667	-	2.15
6.6204	2.145132	4.46395	5.67946046	-	2.15
30.5147	5.588215	4.571189	2.14322933	-	2.14
10.7677	2.178323	2.142807	3.07700809	-	2.14
440.3215	2.575666	2.142302	2.15739068	-	2.14
60.369	2.763271	2.141548	3.69697196	-	2.14
90.3239	2.812854	2.141412	7.44463093	-	2.14

23.0162	2.141163	2.682704	2.59143994	-	2.14
233.5949	3.016314	2.378166	2.14090034	-	2.14
223.3935	3.630024	2.14066	12.8544094	+	2.14
125.3399	2.637362	2.140642	18.7135581	-	2.14
338.6695	2.139806	2.709579	4.21472704	-	2.14
53.3403	3.404196	2.139433	2.45404507	-	2.14
894.2027	2.213236	2.139121	4.19383603	-	2.14
73.3355	3.002606	2.138814	16.8604768	-	2.14
556.4668	3.215773	2.138285	5.98147257	-	2.14
2405.462	2.292142	2.13708	3.49435678	-	2.14
755.3274	2.300663	2.137035	3.45058117	-	2.14
12.2439	2.719634	2.13695	4.35304927	+	2.14
2532.308	2.134823	2.200344	2.19294166	-	2.13
48.4821	2.558451	2.133275	2.66877466	-	2.13
238.6211	3.60923	2.921423	2.13310516	-	2.13
103.9977	3.560091	2.132138	9.46133905	-	2.13
14.6874	2.699813	4.08956	2.13212686	-	2.13
35.9855	3.73374	2.137067	2.13128899	-	2.13
22.0273	2.130704	4.136508	3.55308186	-	2.13
45.7062	2.13064	5.720956	11.6295514	-	2.13
39.564	2.130456	2.516105	3.43553483	-	2.13
63.9361	3.036339	2.130251	5.99457114	-	2.13
828.9695	2.390682	2.129884	2.57255942	-	2.13
4817.924	2.129837	2.193374	3.08354657	-	2.13
586.6412	2.335159	2.128464	4.23141777	-	2.13
111.5989	2.433003	2.127448	5.47730757	-	2.13
377.7255	2.127002	2.130046	2.19368536	-	2.13
40.5822	2.262271	2.126059	5.91322057	-	2.13
4267.224	2.433247	2.126004	2.64537714	-	2.13
623.9855	2.695707	2.125204	4.09933965	-	2.13
96.6072	2.700388	2.125165	5.85788119	-	2.13
12.3774	2.125013	2.189073	2.22589558	-	2.13
41.1657	2.8442	4.690962	2.12428065	-	2.12
43.0297	2.124112	5.011591	6.76726772	-	2.12
51.1306	2.258176	2.123489	7.85708558	-	2.12
143.8356	2.973547	2.123373	3.29917559	-	2.12
742.5337	2.122781	2.64587	4.13022641	-	2.12
24.6266	2.181607	2.121191	2.85429576	-	2.12
11.0422	2.121191	3.876897	3.45614099	-	2.12
687.4375	2.601622	3.286758	2.12116665	-	2.12
985.8945	2.364493	2.1208	3.20143332	-	2.12
33.1534	3.037661	2.120288	4.93631121	-	2.12
14.3581	2.655655	2.120141	3.85816368	-	2.12
242.2338	3.822906	2.119819	9.94314914	-	2.12
1085.906	2.119586	2.428765	5.33934445	-	2.12
9.3688	2.119335	2.557743	2.15265562	-	2.12
3332.058	3.453261	4.228982	2.11918726	-	2.12
3066.883	2.709024	2.118957	4.3056081	-	2.12
291.7855	2.205644	2.118535	3.62607977	-	2.12
281.2207	2.117265	2.652449	6.82091148	-	2.12
463.6003	2.793896	2.117049	4.19832839	-	2.12
76.6315	2.115815	7.120966	6.26143949	-	2.12
10.3909	2.115726	4.072222	3.5732516	-	2.12

699.4989	2.115205	2.354847	3.95942595	-	2.12
430.0435	7.037503	3.428063	2.11325482	-	2.11
23.0342	2.112775	2.225905	2.17737538	-	2.11
63.4838	2.538616	2.112549	2.92902284	-	2.11
188.3435	2.563075	2.111792	3.92346272	-	2.11
3920.082	2.276366	2.249051	2.11138141	-	2.11
68.0616	2.200216	2.111217	3.26570489	-	2.11
11022.99	2.464325	2.365763	2.11106919	-	2.11
278.2995	2.11083	5.955464	13.3099251	-	2.11
47.9873	2.66989	2.110038	3.63891071	-	2.11
861.1575	2.109471	2.149919	5.81602262	-	2.11
52.5978	2.109406	2.119664	2.65524794	-	2.11
53.9655	2.109036	5.311464	7.24339624	-	2.11
137.7635	2.108861	2.192753	2.93083074	-	2.11
1280.465	2.505688	2.14931	2.10846267	-	2.11
2384.174	2.549839	2.108345	2.16044323	-	2.11
5369.412	2.905729	2.32073	2.10782383	-	2.11
413.1155	2.785185	2.107658	5.58659697	-	2.11
198.2102	2.10696	2.372333	4.51894857	+	2.11
77.3418	2.488872	2.105316	3.15872529	-	2.11
933.7655	2.528843	2.514047	2.10466557	-	2.10
3898.41	2.155473	2.182602	2.10372858	-	2.10
24.7998	4.265456	2.102542	10.1500617	-	2.10
3692.976	2.317788	2.102448	2.46418843	-	2.10
33.4151	3.216375	2.102445	25.9491847	-	2.10
5827.363	2.607426	2.19609	2.10215598	-	2.10
373.4029	2.102001	2.822485	3.32433465	-	2.10
355.9808	3.017787	2.101935	6.00006939	+	2.10
285.9926	2.852619	2.100334	2.70215313	-	2.10
6.824	2.099565	2.223896	2.33616647	-	2.10
16.1828	3.955392	4.237049	2.09802383	-	2.10
13.5219	2.812103	2.549795	2.09696862	-	2.10
2256.951	2.64501	2.096514	7.28234761	-	2.10
10.3323	2.410646	2.096115	2.789708	-	2.10
178.4152	3.142071	2.663802	2.09534838	-	2.10
668.8866	2.094833	2.323143	3.55068079	-	2.09
267.4635	2.323454	2.094343	3.82858035	-	2.09
3741.504	2.342257	2.094051	3.17586272	-	2.09
1875.978	2.09251	2.094104	2.79202149	-	2.09
30.0152	2.737024	2.091602	3.9720375	-	2.09
8.4328	2.329426	2.091583	4.83798975	-	2.09
15.216	2.091469	5.759841	3.35241193	-	2.09
6785.658	2.66412	2.091238	2.29187537	-	2.09
33.8135	3.585512	2.091237	2.14558091	-	2.09
3845.174	2.411478	2.364844	2.09109251	-	2.09
134.9715	2.402302	2.090261	4.18105674	-	2.09
235.5259	5.783429	2.089736	7.42799115	-	2.09
5755.46	2.286795	2.088862	2.69352595	-	2.09
57.2765	2.704961	2.851228	2.08884097	-	2.09
18.7409	2.352039	2.088625	2.37644937	-	2.09
278.1285	2.979365	2.223032	2.08839979	-	2.09
5854.048	3.753395	3.36298	2.08813459	-	2.09
168.8935	2.600772	2.199483	2.0881295	-	2.09

9.6984	2.731692	2.086731	3.52274602	-	2.09
6529.078	2.62974	2.086258	2.26975702	+	2.09
3781.232	3.29318	2.296996	2.08597847	-	2.09
185.0727	2.440635	2.085644	6.83114149	-	2.09
1342.464	2.360466	2.085401	7.65434418	-	2.09
1309.758	2.439564	2.162791	2.08523295	-	2.09
663.6775	2.211068	2.084535	9.70266357	-	2.08
54.3696	2.422684	2.084264	3.52872745	-	2.08
2911.208	2.466524	2.084107	2.93439458	+	2.08
139.9804	2.083928	6.07322	13.690586	-	2.08
12.8426	5.125619	2.083448	9.44726924	-	2.08
144.8547	2.083304	5.262258	11.2474431	-	2.08
1060.591	2.211274	2.08323	2.65733372	-	2.08
3376.79	2.430988	2.082158	3.4463761	-	2.08
5.1491	2.735461	2.080983	3.7553553	-	2.08
44.9186	3.883012	2.080786	2.80150094	-	2.08
39.2264	7.998118	3.653619	2.08021129	-	2.08
8.8539	2.595369	2.468716	2.07980664	-	2.08
173.6395	3.21268	2.079391	13.2174586	-	2.08
1720.914	2.079107	2.21597	4.42806027	-	2.08
55.0699	2.753808	2.078639	2.34889658	-	2.08
32.5565	2.078253	5.827294	18.8382689	-	2.08
1248.288	2.083354	2.078116	4.13667031	-	2.08
29.6477	2.077942	4.193721	4.31282359	-	2.08
55.0568	4.411684	2.077035	7.24708846	-	2.08
583.4304	2.557049	2.076528	2.45003534	-	2.08
2143.894	2.316505	2.075169	3.54637555	-	2.08
26.8442	2.751924	2.777642	2.07491749	-	2.07
111.5535	2.073167	2.076079	3.16256236	-	2.07
975.9092	2.554065	2.07187	5.11211371	-	2.07
61.4626	3.297385	2.450742	2.07169075	-	2.07
319.395	3.265083	2.071381	10.6751624	-	2.07
18.5135	2.368834	2.069874	3.08588868	-	2.07
8.0139	2.069467	2.226877	2.09585845	-	2.07
533.0716	2.069089	2.484128	2.07143562	-	2.07
502.1768	2.550797	2.06822	2.63476529	-	2.07
7.0238	6.413605	2.067834	8.01093425	-	2.07
301.1153	3.199157	2.067754	2.42134989	-	2.07
7.8383	2.405114	2.167623	2.06768049	-	2.07
794.7835	2.288335	2.067118	2.76396717	-	2.07
18.0171	4.520912	2.066626	14.6679266	-	2.07
1453.832	4.959583	3.472177	2.06633733	-	2.07
10.0299	2.064749	3.593006	14.7520713	-	2.06
451.7395	2.385129	2.20339	2.06474063	-	2.06
959.5615	2.427951	2.064572	3.80003564	-	2.06
31.3383	3.003742	2.063033	6.62125259	-	2.06
683.704	2.330039	2.062912	6.21744132	-	2.06
36.9668	6.192423	3.042364	2.06275631	-	2.06
39.9585	2.669115	2.062588	4.41421725	-	2.06
161.702	2.511659	2.062071	3.9903619	-	2.06
2076.696	6.233389	4.411758	2.06183887	-	2.06
2226.276	2.061529	2.169398	3.8044048	-	2.06
655.5715	2.709513	2.061297	10.3435361	-	2.06

118.5875	2.169898	2.061235	6.03824771	-	2.06
124.6455	2.528808	2.060647	2.42296352	-	2.06
38.946	2.067071	2.679141	2.06037847	-	2.06
1446.079	2.542513	2.06013	4.58003542	-	2.06
1885.309	2.424182	2.060073	4.69181206	-	2.06
1291.95	2.732373	2.059509	3.36966176	-	2.06
81.4775	2.059232	2.424455	3.68766224	-	2.06
280.8775	2.367264	2.05901	3.72734555	-	2.06
20.3167	2.058992	3.197135	2.91412976	-	2.06
4193.906	2.227408	2.058482	4.54652054	-	2.06
90.0335	2.058196	3.133637	2.35240883	+	2.06
4468.182	2.329643	2.05808	2.2042595	-	2.06
2999.068	2.258576	2.057914	2.76790219	-	2.06
126.1788	2.057752	2.102168	17.469949	-	2.06
288.4401	2.299566	2.057009	6.89130776	-	2.06
3788.456	2.621364	2.056778	2.16627475	-	2.06
17.7493	2.056737	2.412901	3.96072521	-	2.06
1809.877	2.133025	2.056511	2.08689292	-	2.06
4656.165	3.068111	2.056458	2.59579896	-	2.06
31.5617	6.839226	2.056412	4.84161183	-	2.06
1369.628	3.73933	2.919058	2.05604801	-	2.06
274.0875	2.320272	2.759723	2.05589638	-	2.06
290.2199	2.203769	2.055707	5.30125432	-	2.06
4034.868	2.402079	2.055112	2.46380123	-	2.06
59.1075	2.449141	2.609692	2.05509453	-	2.06
65.6453	5.329103	2.054634	2.5581283	-	2.05
10.3274	2.952789	2.053049	7.04510332	-	2.05
132.1154	4.326616	2.120386	2.05205071	-	2.05
104.5741	2.227373	2.051775	3.74409629	-	2.05
4150.566	2.203052	2.051407	3.67226189	-	2.05
2276.111	2.051136	2.188423	3.74985084	-	2.05
62.5024	2.762321	2.051071	14.8100473	-	2.05
2060.751	3.21688	2.050823	2.38352553	-	2.05
18.7592	2.050324	3.418541	5.9622372	-	2.05
24.589	2.049911	3.660218	3.17709138	-	2.05
9.9028	2.04834	2.681051	2.54083694	-	2.05
1606.792	2.136592	2.047868	2.77497952	+	2.05
6653.046	2.853403	2.538024	2.0471166	-	2.05
21.2121	3.66535	2.82133	2.04663848	-	2.05
1337.692	2.365918	2.046606	2.25260794	-	2.05
101.8068	2.128012	2.328427	2.04658039	-	2.05
28.7744	2.372625	2.28891	2.04639541	-	2.05
41.8387	2.22901	2.045799	5.92297323	-	2.05
59.4353	3.435806	3.186131	2.04561094	-	2.05
2708.845	2.395435	2.045358	3.17910828	-	2.05
759.5095	2.190769	2.044869	2.74435316	+	2.04
2385.888	2.044715	2.749586	2.91792262	-	2.04
3288.806	2.971591	2.682839	2.04452954	-	2.04
184.1375	2.765932	2.044339	3.1050465	-	2.04
591.4065	2.067823	2.04403	3.15406155	-	2.04
1990.216	2.043855	2.169479	2.09768616	-	2.04
46.535	2.201374	2.042558	2.15595143	-	2.04
126.5655	2.900815	2.041842	3.75016493	-	2.04

1242.558	2.176761	2.274454	2.04172473	-	2.04
10.6605	3.060723	2.040987	2.47660053	-	2.04
1996.952	2.237235	2.040307	5.04357943	-	2.04
22.2606	2.697882	2.040025	6.88673261	-	2.04
1403.526	2.257872	2.197456	2.03934841	-	2.04
1940.87	2.136124	2.038806	2.8394838	-	2.04
2094.77	2.434104	2.038748	3.49396521	-	2.04
30.5452	2.038661	2.9289	2.19313673	-	2.04
19.7551	2.65973	2.038605	6.44873982	-	2.04
1286.938	2.28014	2.037223	4.95439406	-	2.04
2332.722	4.811759	4.030879	2.03645977	+	2.04
1134.258	3.860597	2.310972	2.03618799	-	2.04
9.4052	3.011893	2.657068	2.03571429	-	2.04
141.4744	4.299246	2.034842	3.01358762	-	2.03
21.7847	2.568889	2.034553	2.4212865	-	2.03
5287.142	2.368655	2.033072	3.7929139	-	2.03
6.0216	2.326811	2.032742	2.51773615	-	2.03
11.5315	2.032121	2.032538	2.5719811	-	2.03
171.5319	2.66416	2.031983	22.9507141	-	2.03
179.4099	2.664424	2.031923	4.4008023	+	2.03
62.8761	2.031644	6.084314	7.47087526	-	2.03
41.2088	2.535695	2.031251	11.2862859	+	2.03
25.2311	2.173305	3.975277	2.03097368	-	2.03
39.0672	2.169223	2.030888	2.05511273	-	2.03
10.5961	2.066952	2.030618	2.9555025	-	2.03
78.7375	2.257213	2.746475	2.03051278	-	2.03
734.7074	2.263283	2.029942	3.8058246	-	2.03
2429.302	2.255667	2.029697	2.9980764	-	2.03
310.8875	2.524445	2.029629	15.0101419	-	2.03
41.7099	2.028476	2.028476	3.28913519	-	2.03
65.5379	5.888455	2.028377	3.34446938	-	2.03
90.9445	3.17167	2.02712	7.54342264	-	2.03
150.7779	2.922756	2.026116	2.38630131	-	2.03
32.5683	2.025868	2.250476	11.4977908	-	2.03
4692.246	2.132642	2.024651	3.44561756	-	2.02
57.1866	2.02404	2.066506	2.37320456	-	2.02
9.5203	2.023712	2.378866	2.40252933	-	2.02
428.6755	2.023317	2.101984	10.2965061	-	2.02
29.9173	4.746381	2.702222	2.02307361	-	2.02
97.0283	4.448816	2.023055	2.2324157	-	2.02
172.9026	5.403067	3.832114	2.02251672	-	2.02
1591.193	2.657163	2.051639	2.02156615	+	2.02
446.7495	2.116741	2.021416	3.48784162	-	2.02
1248.284	2.022384	2.020275	2.02667775	-	2.02
944.8655	2.10364	2.020188	2.78022703	-	2.02
214.8895	2.139168	2.020014	3.44805633	-	2.02
20.6882	2.019459	6.83676	6.87413598	-	2.02
7.0769	2.839789	2.019412	55.3959361	-	2.02
12.0771	2.326192	2.018851	3.6987439	-	2.02
568.2715	2.077964	2.018717	2.84541984	-	2.02
24.2536	2.168012	2.018579	2.22505113	-	2.02
2195.5	3.77103	2.376792	2.01790868	-	2.02
40.9054	4.486112	2.01784	3.26974678	-	2.02

224.039	2.017353	2.139975	5.54569294	-	2.02
8.1126	2.093512	2.017305	2.22148263	-	2.02
2019.584	2.290952	2.017145	3.912222	-	2.02
222.3455	2.204179	2.017055	4.77356861	-	2.02
385.8027	2.754291	2.01687	2.25395908	-	2.02
602.5461	2.580308	2.016302	5.94345478	+	2.02
357.3046	2.258957	2.015127	2.40987354	-	2.02
17.212	3.499142	2.878476	2.01511736	-	2.02
154.6913	3.830688	2.014538	3.9287064	-	2.01
985.441	2.386093	2.111748	2.01394452	-	2.01
8.4089	2.013537	2.378228	2.40396485	-	2.01
422.2309	2.238028	2.013307	3.35188472	-	2.01
59.8472	2.013124	2.736383	2.99231209	-	2.01
491.8695	3.12926	2.012981	3.30053703	-	2.01
389.9577	2.012337	2.708272	8.42551769	-	2.01
106.4641	2.780468	2.011975	16.258227	-	2.01
1452.594	2.292616	2.01171	5.27306194	+	2.01
48.3932	3.318266	2.011545	4.20710968	-	2.01
5.8256	2.043972	2.010044	2.53177355	-	2.01
206.7742	2.840671	2.009931	3.36059092	-	2.01
82.6743	2.00931	2.707115	4.14482735	-	2.01
24.8391	4.14384	2.008791	6.20140424	-	2.01
1236.73	2.593056	2.008546	2.45054678	-	2.01
30.9883	5.34015	2.008406	2.30543786	-	2.01
2623.693	3.720649	2.032244	2.00801187	-	2.01
60.8638	2.007986	5.340055	9.96644146	-	2.01
1562.97	2.148437	2.00719	3.83888969	+	2.01
161.068	3.408464	2.006996	7.87830171	-	2.01
625.8444	2.896396	2.006841	2.98534188	-	2.01
41.2277	2.575259	2.006059	4.24393066	-	2.01
239.1468	6.078073	5.582479	2.00604524	-	2.01
74.6569	2.83592	2.005918	2.61472014	-	2.01
123.3655	2.713899	2.036131	2.00288979	-	2.00
61.6126	2.807954	2.001993	5.961193	-	2.00
160.0435	2.370957	2.001586	3.41069459	-	2.00
3401.278	3.385482	2.809404	2.00152722	-	2.00
24.6508	2.00076	4.312805	4.48658867	-	2.00

<i>lults</i>	At least a two-fold gain in DNA methylation at E15 vs. E18, E19, and adults (the higher value is at least 2.0 but the lower one does)		maximum fold-change
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12900.94	0.001553	0.001615	0.00213089	-	0.002
14278.15	0.002341	0.001999	0.00245262	-	0.002
9704.48	0.002438	0.002307	0.00274201	-	0.003
10706.43	0.002474	0.002764	0.00166271	-	0.003
26013.73	0.003182	0.002327	0.00131655	-	0.003
10131.55	0.002778	0.00359	0.00249682	-	0.004
9808.036	0.003546	0.003934	0.00422178	-	0.004
6946.306	0.003748	0.004315	0.0016184	-	0.004
7414.39	0.004369	0.003986	0.00320601	-	0.004
15022.05	0.003912	0.00441	0.00051179	-	0.004
11841.75	0.004629	0.004232	0.00445042	-	0.005

5244.954	0.003907	0.00407	0.0048789	-	0.005
26540.12	0.005055	0.004434	0.00486242	-	0.005
18613.19	0.006403	0.005821	0.00413618	-	0.006
1508.944	0.006041	0.00571	0.00644338	-	0.006
20704.43	0.006425	0.006611	0.00386234	-	0.007
9348.234	0.003441	0.0069	0.00097001	-	0.007
25936.8	0.00719	0.006633	0.0027617	-	0.007
8073.754	0.005397	0.005271	0.00731121	-	0.007
2548.746	0.004654	0.007457	0.00384005	-	0.007
4566.884	0.007718	0.007583	0.00464991	-	0.008
3900.542	0.005995	0.007739	0.00191455	-	0.008
21576.73	0.007657	0.007776	0.00601136	-	0.008
21388.9	0.008722	0.008861	0.00668745	-	0.009
11755.83	0.004617	0.009077	0.00617208	-	0.009
2534.652	0.009334	0.009378	0.00797557	-	0.009
8928.91	0.010214	0.007485	0.00480491	-	0.010
14224.2	0.010289	0.010865	0.00965512	-	0.011
6127.682	0.010304	0.010913	0.00702179	-	0.011
10946.46	0.004997	0.011753	0.00682755	-	0.012
10819.98	0.012013	0.011695	0.00615102	-	0.012
1184.294	0.002814	0.002583	0.01342953	-	0.013
399.7635	0.013399	0.00694	0.01360404	-	0.014
2835.71	0.010147	0.011472	0.01363831	-	0.014
7465.419	0.013887	0.013858	0.00148627	-	0.014
1477.066	0.002584	0.002519	0.01434703	-	0.014
9885.19	0.007685	0.014359	0.00611025	-	0.014
1689.852	0.01451	0.012849	0.00868786	-	0.015
3003.642	0.015118	0.0154	0.00663927	-	0.015
15931.22	0.015433	0.015435	0.01214543	-	0.015
1559.959	0.015013	0.011858	0.01573721	-	0.016
2638.899	0.012478	0.016044	0.00398503	-	0.016
2635.371	0.013002	0.016228	0.00791665	-	0.016
988.7935	0.013966	0.012377	0.01628449	-	0.016
6542.697	0.00339	0.016731	0.01466116	-	0.017
2187.708	0.004556	0.017007	0.01419856	-	0.017
2586.038	0.017115	0.016972	0.00975585	-	0.017
13009.46	0.017677	0.016039	0.01038363	-	0.018
8479.848	0.017924	0.018275	0.0036664	-	0.018
1112.328	0.011616	0.014401	0.01869998	-	0.019
29742.53	0.017868	0.017277	0.01899366	-	0.019
2322.818	0.019021	0.015362	0.00627591	-	0.019
8355.849	0.006092	0.006039	0.01915542	-	0.019
472.5975	0.008771	0.008401	0.01930311	-	0.019
4985.58	0.018095	0.019775	0.01103388	-	0.020
509.8815	0.005624	0.017304	0.01992934	-	0.020
1427.766	0.013911	0.016457	0.02068868	-	0.021
1234.672	0.019724	0.020975	0.01199671	-	0.021
5905.424	0.019369	0.021264	0.00718878	+	0.021
1253.216	0.019499	0.022562	0.01943599	-	0.023
11004.98	0.016764	0.022933	0.00291263	-	0.023
463.6635	0.012476	0.016366	0.02328693	-	0.023
3515.308	0.009891	0.023533	0.01506005	-	0.024
9348.462	0.023698	0.021598	0.00331302	-	0.024

3086.856	0.024062	0.022158	0.00494558	-	0.024
4362.274	0.022977	0.024336	0.00685005	-	0.024
1887.096	0.014086	0.013294	0.02488724	-	0.025
1718.852	0.025073	0.023004	0.01135444	-	0.025
832.2682	0.021388	0.025087	0.02111519	-	0.025
10908.05	0.01891	0.025125	0.02416742	-	0.025
840.5491	0.025722	0.025272	0.02366037	-	0.026
433.4555	0.017172	0.025962	0.02564231	-	0.026
1588.864	0.026029	0.023817	0.00565908	-	0.026
3197.812	0.021121	0.026286	0.01692877	-	0.026
1767.418	0.013554	0.026927	0.02649119	-	0.027
3405.114	0.027079	0.020741	0.00225731	-	0.027
9913.334	0.02763	0.019369	0.00334026	-	0.028
1039.462	0.017135	0.015109	0.02794974	-	0.028
4432.77	0.028343	0.027487	0.01190892	+	0.028
1760.868	0.025599	0.028361	0.00711734	-	0.028
1053.434	0.014132	0.013918	0.02970705	-	0.030
1088.836	0.025279	0.026879	0.02978843	-	0.030
277.3595	0.00757	0.03027	0.0202571	-	0.030
330.9255	0.030386	0.021871	0.02091951	-	0.030
2759.278	0.030613	0.025924	0.00424006	-	0.031
592.7215	0.003299	0.031292	0.02353989	-	0.031
9848.068	0.031696	0.028793	0.00381644	-	0.032
2843.302	0.032874	0.033384	0.01215225	-	0.033
3337.232	0.03327	0.033942	0.02521578	-	0.034
10740.46	0.034066	0.030241	0.01594356	-	0.034
5759.729	0.033061	0.034693	0.0173684	-	0.035
939.3132	0.031014	0.034758	0.02090975	-	0.035
1045.912	0.021826	0.036135	0.03623146	+	0.036
3895.967	0.0052	0.036459	0.0209682	+	0.036
650.6935	0.01263	0.034428	0.03670822	-	0.037
16524.84	0.035394	0.037802	0.00179721	-	0.038
20265.32	0.02312	0.038282	0.01566437	-	0.038
15757.94	0.038512	0.034879	0.0302106	-	0.039
3673.403	0.038611	0.033482	0.02650335	-	0.039
3052.274	0.039398	0.029776	0.02000109	-	0.039
1083.363	0.024775	0.019682	0.03971309	-	0.040
1130.092	0.040332	0.025688	0.01199938	-	0.040
11837.66	0.039683	0.040727	0.02626753	-	0.041
374.0443	0.041721	0.03489	0.03474722	-	0.042
3500.19	0.019523	0.0424	0.00707922	-	0.042
9488.385	0.030974	0.030828	0.04261268	-	0.043
1807.098	0.041959	0.043216	0.01846458	-	0.043
3535.091	0.043012	0.043553	0.01357988	-	0.044
4569.698	0.028479	0.045649	0.03580532	-	0.046
1117.23	0.045714	0.0395	0.03633345	-	0.046
500.6115	0.036113	0.045755	0.02233728	-	0.046
6529.745	0.04635	0.041435	0.0317768	-	0.046
439.9995	0.039039	0.036846	0.04677778	+	0.047
9074.844	0.046975	0.038385	0.00846643	+	0.047
14597.42	0.043363	0.047223	0.01337014	+	0.047
1450.057	0.045156	0.047443	0.03236088	-	0.047
1095.138	0.047621	0.037477	0.04080163	-	0.048



357.5415	0.016686	0.047938	0.02028352	-	0.048
12631.01	0.043517	0.049251	0.01068636	+	0.049
394.2975	0.048326	0.049315	0.01623951	-	0.049
2956.646	0.049552	0.03568	0.00940603	+	0.050
1952.962	0.050045	0.047338	0.00648943	-	0.050
5569.876	0.043546	0.045421	0.05084282	-	0.051
5451.309	0.044251	0.051094	0.04925156	-	0.051
1694.828	0.051131	0.04388	0.00874691	-	0.051
5993.108	0.051232	0.032249	0.01192109	-	0.051
12856.53	0.028571	0.049237	0.05160067	-	0.052
973.1734	0.017974	0.015753	0.05177042	-	0.052
977.7635	0.050601	0.051802	0.04399602	-	0.052
197.3155	0.052774	0.045974	0.04234234	-	0.053
9024.912	0.023881	0.05282	0.00167505	-	0.053
1009.607	0.041679	0.053007	0.01079291	-	0.053
13539.77	0.04945	0.053114	0.02625241	+	0.053
676.5495	0.046544	0.047498	0.05334554	-	0.053
5016.614	0.054176	0.047989	0.00411018	-	0.054
10041.14	0.051059	0.054572	0.02436172	+	0.055
225.8526	0.053046	0.039033	0.05494026	-	0.055
2355.674	0.03324	0.05503	0.02194158	-	0.055
11991.08	0.055556	0.049485	0.03956315	-	0.056
165.9635	0.010907	0.01113	0.05557547	-	0.056
7629.638	0.032484	0.055734	0.02791948	-	0.056
2766.438	0.033021	0.047385	0.055803	+	0.056
5701.712	0.052886	0.056303	0.0126449	-	0.056
161.9415	0.048152	0.038573	0.05645434	-	0.056
5294.024	0.047628	0.05673	0.04709739	+	0.057
4626.452	0.036274	0.026205	0.0571602	-	0.057
2987.932	0.022614	0.035591	0.05758816	-	0.058
12719.82	0.057629	0.051605	0.03829091	+	0.058
14751.28	0.057992	0.042234	0.04687278	-	0.058
1743.024	0.039551	0.031934	0.05814236	-	0.058
381.6415	0.017251	0.049957	0.05822663	-	0.058
23097.38	0.058612	0.057351	0.00721595	-	0.059
6845.374	0.030336	0.0591	0.04136246	-	0.059
2015.605	0.059136	0.056386	0.03321772	-	0.059
700.8935	0.053288	0.05986	0.02353553	-	0.060
11804.7	0.056035	0.060105	0.02585232	-	0.060
5572.935	0.06017	0.056315	0.0242059	-	0.060
299.4755	0.025037	0.044269	0.06030376	-	0.060
1235.928	0.060405	0.046847	0.01135843	-	0.060
715.4335	0.060509	0.057795	0.04447206	-	0.061
802.9293	0.060528	0.056211	0.0195204	-	0.061
993.0035	0.060018	0.060628	0.01400861	-	0.061
464.8849	0.033658	0.037175	0.06083764	-	0.061
1700.876	0.023611	0.057041	0.06194516	-	0.062
4222.501	0.057077	0.062217	0.0129666	-	0.062
271.4915	0.062382	0.046786	0.04177589	-	0.062
6673.772	0.056597	0.062576	0.0038601	-	0.063
718.9335	0.038848	0.042348	0.06307134	-	0.063
1643.588	0.031557	0.050577	0.06308121	-	0.063
7969.052	0.063259	0.052426	0.03856839	-	0.063

4964.592	0.063449	0.044937	0.02946657	-	0.063
990.4515	0.062987	0.063472	0.04844821	-	0.063
857.6275	0.05321	0.063631	0.00776444	-	0.064
4720.615	0.041269	0.053315	0.06390937	+	0.064
899.0595	0.064462	0.059686	0.05047708	+	0.064
4843.25	0.064479	0.063223	0.04219966	-	0.064
3721.398	0.043174	0.050294	0.06461876	+	0.065
10853.29	0.064643	0.060706	0.02256344	+	0.065
9981.148	0.054254	0.056379	0.064844	-	0.065
1795.47	0.03751	0.065344	0.04244667	-	0.065
501.8115	0.011957	0.046826	0.06549551	-	0.065
1307.41	0.065743	0.065415	0.03296917	-	0.066
5456.92	0.065753	0.044266	0.01990271	-	0.066
1941.368	0.066116	0.063632	0.02288057	-	0.066
898.4935	0.031025	0.066458	0.04666322	-	0.066
4269.288	0.066518	0.063694	0.05490673	-	0.067
2207.816	0.067037	0.044826	0.04013474	-	0.067
4282.8	0.0676	0.050399	0.02923226	-	0.068
1914.382	0.058213	0.05405	0.06763746	-	0.068
28321.64	0.067739	0.054106	0.00125779	-	0.068
1054.891	0.013127	0.067858	0.04624231	-	0.068
118.4955	0.01489	0.016216	0.06865662	-	0.069
446.9811	0.007127	0.068999	0.04936652	-	0.069
2950.724	0.064172	0.069412	0.01093942	-	0.069
20462.61	0.064146	0.0696	0.02520076	-	0.070
1840.004	0.026112	0.025168	0.06969525	-	0.070
3408.052	0.062132	0.062744	0.06988741	-	0.070
19281.18	0.069996	0.049073	0.02164927	-	0.070
1145.021	0.043572	0.070437	0.01267086	-	0.070
2753.409	0.069561	0.05461	0.07087052	-	0.071
2822.446	0.05095	0.048119	0.07111452	-	0.071
2698.646	0.071474	0.045206	0.00487756	-	0.071
11086.66	0.069591	0.071518	0.03192894	-	0.072
19759.87	0.072003	0.056078	0.01468511	-	0.072
1045.292	0.072042	0.063428	0.03214347	-	0.072
6739.572	0.072152	0.071885	0.0243959	-	0.072
3015.856	0.072319	0.071325	0.06697917	-	0.072
1910.768	0.060116	0.072904	0.06403102	-	0.073
146.8275	0.045918	0.0334	0.07412712	-	0.074
9121.057	0.07376	0.074815	0.06191782	-	0.075
1736.616	0.05019	0.075095	0.00532064	-	0.075
7091.648	0.017747	0.075287	0.02779291	-	0.075
2429.118	0.044714	0.030992	0.07536459	-	0.075
396.7215	0.075547	0.049965	0.01946933	-	0.076
2516.246	0.071414	0.075586	0.04991976	-	0.076
1802.51	0.075593	0.068595	0.01726559	-	0.076
1179.666	0.021373	0.020263	0.07565467	-	0.076
2927.822	0.076082	0.065803	0.0086177	-	0.076
1951.671	0.055598	0.077105	0.03850291	-	0.077
13670.93	0.077909	0.066326	0.01924262	+	0.078
29888.7	0.07628	0.068059	0.07799669	-	0.078
1074.731	0.078152	0.077296	0.03821159	-	0.078
3579.424	0.043668	0.034362	0.07834655	-	0.078



23840.85	0.056499	0.078377	0.03164415	+	0.078
630.1435	0.046271	0.078673	0.03708552	-	0.079
655.3226	0.072102	0.078714	0.02961946	-	0.079
954.8255	0.014217	0.018426	0.07907277	-	0.079
4221.006	0.079175	0.038326	0.01785108	-	0.079
17365.87	0.07922	0.058978	0.00826642	-	0.079
456.4735	0.06393	0.079228	0.02774794	-	0.079
2440.884	0.070015	0.079258	0.00992526	-	0.079
3859.634	0.079445	0.062965	0.01934554	-	0.079
13186	0.023517	0.080012	0.04835185	-	0.080
182.1115	0.010471	0.078874	0.08029806	-	0.080
3478.616	0.044309	0.03064	0.08033469	-	0.080
12118.3	0.072115	0.080379	0.03665495	-	0.080
2011.182	0.060659	0.080519	0.06215719	-	0.081
8669.833	0.068734	0.0806	0.03102684	-	0.081
3637.123	0.080933	0.077978	0.02044168	-	0.081
483.3005	0.042164	0.080969	0.05947728	-	0.081
8303.886	0.077618	0.081018	0.02885683	+	0.081
647.8455	0.015576	0.081684	0.02162692	-	0.082
830.4605	0.081743	0.081084	0.03161017	-	0.082
17200.99	0.075985	0.081884	0.02972605	-	0.082
3028.864	0.076971	0.082053	0.04159972	-	0.082
2524.181	0.025691	0.042762	0.0822015	-	0.082
1094.067	0.082334	0.060795	0.01654735	-	0.082
8786.186	0.025191	0.08267	0.06494417	-	0.083
371.0606	0.047851	0.083164	0.04863976	-	0.083
3466.228	0.083369	0.06719	0.01652846	-	0.083
16933.93	0.083461	0.066508	0.03768713	-	0.083
317.6855	0.083956	0.053828	0.05959384	-	0.084
9737	0.063641	0.084023	0.01127632	-	0.084
26681.51	0.084205	0.065975	0.02345015	-	0.084
1894.33	0.070766	0.084537	0.0338487	-	0.085
1133.35	0.024345	0.062652	0.084616	-	0.085
4334.904	0.083174	0.08476	0.02153132	+	0.085
9839.835	0.036568	0.07559	0.08508065	-	0.085
12226.45	0.078648	0.085139	0.0023761	-	0.085
10415.34	0.085543	0.078733	0.05350228	-	0.086
2382.953	0.082769	0.085567	0.05741183	+	0.086
818.7049	0.085835	0.061809	0.01950666	-	0.086
1726.12	0.072406	0.085849	0.0114192	-	0.086
10158.89	0.070166	0.085955	0.07315342	-	0.086
4776.028	0.085962	0.061081	0.03738264	-	0.086
8285.334	0.005779	0.086024	0.00865838	-	0.086
678.0408	0.08398	0.08616	0.04528474	-	0.086
2842.384	0.037904	0.086352	0.03850012	-	0.086
421.5375	0.039973	0.086526	0.01579693	-	0.087
7677.032	0.069645	0.086614	0.01304352	-	0.087
920.003	0.086648	0.048626	0.01305267	-	0.087
1963.746	0.038209	0.06784	0.08686029	-	0.087
12042.26	0.027563	0.087007	0.05875705	-	0.087
2911.617	0.061326	0.073552	0.08706062	-	0.087
1136.054	0.087547	0.068417	0.01240892	-	0.088
6564.98	0.087911	0.079125	0.08442182	-	0.088

4851.97	0.08792	0.074722	0.0786022	-	0.088
12820.21	0.088353	0.071703	0.07642911	-	0.088
1579.618	0.08545	0.088797	0.06525421	-	0.089
2500.53	0.076443	0.088798	0.01544217	-	0.089
97.4435	0.029344	0.02483	0.08911318	-	0.089
137.9095	0.063247	0.05504	0.0892143	-	0.089
7821.522	0.08935	0.069398	0.04129856	-	0.089
2473.448	0.067959	0.059326	0.08981638	-	0.090
8478.204	0.090136	0.077732	0.02773505	-	0.090
2207.491	0.064068	0.090736	0.06984015	+	0.091
681.7995	0.072188	0.077204	0.09074295	-	0.091
9683.718	0.01284	0.091434	0.00665118	-	0.091
1357.546	0.083784	0.091744	0.01155541	-	0.092
309.9035	0.030628	0.028622	0.09187892	-	0.092
1718.22	0.091892	0.068509	0.08998879	-	0.092
19460.02	0.092571	0.052389	0.01145957	-	0.093
2754.656	0.091303	0.092617	0.02111233	-	0.093
193.3155	0.091226	0.07626	0.09271372	-	0.093
5546.646	0.074086	0.0736	0.09290435	-	0.093
3431.144	0.017688	0.093507	0.00606282	-	0.094
5534.473	0.071054	0.066548	0.09380613	-	0.094
1344.076	0.088013	0.09386	0.00832892	-	0.094
12361.41	0.093916	0.071368	0.07709132	-	0.094
468.486	0.094105	0.040041	0.02718566	-	0.094
1936.496	0.09288	0.094437	0.05030143	-	0.094
6392.876	0.093408	0.095218	0.02261385	-	0.095
2846.887	0.04448	0.032518	0.09556791	-	0.096
1162.36	0.094065	0.081329	0.09564132	-	0.096
29273.25	0.064933	0.095667	0.03729431	+	0.096
2650.352	0.071736	0.095751	0.01772855	-	0.096
37420.35	0.095762	0.095781	0.0068612	-	0.096
438.9335	0.087759	0.096235	0.01709576	-	0.096
16247.79	0.073767	0.096409	0.00136309	-	0.096
450.3498	0.020718	0.051414	0.09680009	-	0.097
1089.754	0.081933	0.096819	0.02962661	-	0.097
26444.84	0.06833	0.09706	0.0375291	+	0.097
10035.92	0.074767	0.058709	0.09717648	-	0.097
889.2315	0.059619	0.097182	0.07832302	-	0.097
464.3135	0.080358	0.097325	0.01762581	-	0.097
738.8875	0.033322	0.034172	0.09734987	-	0.097
652.4121	0.016983	0.060832	0.09743565	-	0.097
90.1375	0.059017	0.031844	0.09749549	-	0.097
544.7295	0.01966	0.027181	0.09788032	-	0.098
625.2064	0.09843	0.05005	0.02794581	-	0.098
2894.172	0.098434	0.088022	0.03098623	-	0.098
164.9618	0.058755	0.050846	0.09853675	-	0.099
658.86	0.020611	0.049052	0.09865829	-	0.099
1316.787	0.098857	0.075166	0.01167075	-	0.099
537.0495	0.073236	0.098888	0.01791995	-	0.099
10101.09	0.038562	0.078292	0.09917495	-	0.099
402.7795	0.06142	0.099504	0.07501474	-	0.100
300.3497	0.047135	0.060156	0.09983296	-	0.100
3104.354	0.088972	0.100022	0.04179192	-	0.100



14682.88	0.100136	0.093409	0.04349116	-	0.100
251.7795	0.073332	0.055538	0.1001968	-	0.100
881.9735	0.096077	0.100319	0.03250778	-	0.100
5130.356	0.046669	0.042204	0.10089433	-	0.101
313.5375	0.100919	0.080296	0.04178926	-	0.101
1431.601	0.086344	0.101134	0.03402583	-	0.101
376.6955	0.101488	0.080191	0.04649405	-	0.101
592.2735	0.012271	0.052982	0.10164662	-	0.102
1828.576	0.102281	0.070146	0.06500943	-	0.102
364.3575	0.070441	0.078557	0.10273289	-	0.103
1568.454	0.100483	0.10275	0.09106513	-	0.103
1442.082	0.099982	0.089369	0.10303072	-	0.103
210.0651	0.010626	0.053082	0.10305758	+	0.103
727.3207	0.084182	0.085515	0.103211	-	0.103
2728.802	0.068855	0.103496	0.02310329	-	0.103
2707.848	0.091164	0.103614	0.01568914	-	0.104
585.9615	0.103692	0.095853	0.05018453	-	0.104
5387.83	0.087256	0.103887	0.02543984	-	0.104
220.0855	0.06973	0.058997	0.10417679	-	0.104
2651.587	0.057801	0.104193	0.05159182	-	0.104
186.6718	0.103957	0.071417	0.10439499	-	0.104
565.6435	0.085301	0.073041	0.10466575	-	0.105
27411.18	0.104672	0.086982	0.0715729	-	0.105
2179.916	0.074794	0.105068	0.07060448	-	0.105
1500.459	0.105518	0.085831	0.03228839	-	0.106
614.0204	0.105544	0.090641	0.02341763	-	0.106
21919.08	0.105742	0.102961	0.06666177	-	0.106
1706.272	0.106249	0.057415	0.01164299	-	0.106
1673.732	0.10681	0.092472	0.03528941	-	0.107
974.7995	0.107106	0.099048	0.08161217	-	0.107
935.1635	0.03772	0.038036	0.10725558	-	0.107
2649.31	0.107276	0.096559	0.03181716	-	0.107
11109.83	0.107694	0.08356	0.03371663	-	0.108
1402.956	0.103445	0.08111	0.10788615	-	0.108
529.3535	0.016945	0.019458	0.10825224	-	0.108
3567.196	0.065959	0.108386	0.00448061	-	0.108
355.0835	0.042297	0.071486	0.10916277	-	0.109
1269.064	0.106371	0.109181	0.02901115	-	0.109
632.1675	0.109211	0.094674	0.09880704	-	0.109
3012.611	0.10021	0.104016	0.10929721	-	0.109
10301.2	0.109513	0.101283	0.07720933	-	0.110
8687.538	0.102482	0.109652	0.00121292	-	0.110
6782.854	0.109749	0.097075	0.0220634	-	0.110
676.9575	0.104139	0.110106	0.04322782	-	0.110
756.0595	0.073075	0.0606	0.11040203	-	0.110
1035.646	0.103607	0.110404	0.0165121	-	0.110
999.7413	0.099951	0.084029	0.11048228	-	0.110
495.7736	0.110889	0.088539	0.01775831	-	0.111
11567.67	0.1109	0.090383	0.10254939	-	0.111
9513.156	0.111068	0.101168	0.02904663	-	0.111
3032.924	0.098639	0.111367	0.06897485	-	0.111
2501.141	0.085142	0.097932	0.11151371	-	0.112
2848.26	0.096264	0.111783	0.01585979	-	0.112

3067.192	0.111796	0.092573	0.02429779	-	0.112
2783.896	0.101016	0.112016	0.08597575	-	0.112
1114.485	0.112209	0.076162	0.02798188	-	0.112
179.0055	0.062847	0.070885	0.11233174	-	0.112
1269.67	0.099523	0.112503	0.02956202	-	0.113
2202.271	0.112905	0.074277	0.08877422	-	0.113
203.4575	0.112995	0.079473	0.05339002	-	0.113
35165.45	0.113108	0.106054	0.09944703	+	0.113
2421.463	0.051565	0.051109	0.1136405	-	0.114
95.5386	0.02078	0.036499	0.11376449	-	0.114
3686.196	0.096803	0.070684	0.11386857	-	0.114
15171.78	0.113985	0.102462	0.0861298	-	0.114
1179.454	0.115056	0.087652	0.03304869	-	0.115
8238.768	0.115062	0.11331	0.06896292	-	0.115
1402.246	0.115124	0.072404	0.03889497	-	0.115
4419.114	0.095163	0.115223	0.01532384	-	0.115
120.8255	0.115635	0.090018	0.08683597	-	0.116
10729.44	0.114773	0.111297	0.11601834	-	0.116
1899.64	0.067832	0.116032	0.04028828	-	0.116
9641.114	0.019435	0.116358	0.00999446	-	0.116
1523.188	0.116401	0.090136	0.012485	-	0.116
12633.73	0.11653	0.101365	0.10137327	-	0.117
4944.452	0.116615	0.098979	0.031675	-	0.117
1804.214	0.11667	0.095867	0.04515646	-	0.117
1085.095	0.116903	0.086218	0.06073192	-	0.117
4350.328	0.105037	0.116968	0.03435815	-	0.117
5941.828	0.117082	0.084838	0.0792191	-	0.117
2020.89	0.050595	0.117396	0.1007824	-	0.117
6824.37	0.015606	0.117466	0.01371636	-	0.117
103.3495	0.11753	0.116502	0.07738402	+	0.118
407.7478	0.086985	0.067754	0.1180492	-	0.118
1419.536	0.11808	0.043686	0.01680895	-	0.118
16345.9	0.118474	0.066069	0.03218932	-	0.118
7155.312	0.067038	0.119064	0.02842916	+	0.119
9988.327	0.11914	0.108345	0.01165695	-	0.119
610.3331	0.107187	0.119266	0.11077852	-	0.119
1408.158	0.046547	0.119839	0.03422067	-	0.120
836.1435	0.120453	0.109544	0.01044127	-	0.120
1153.978	0.120636	0.101527	0.08473779	-	0.121
1044.868	0.120979	0.109859	0.01137503	-	0.121
2530.555	0.074677	0.121023	0.0431416	-	0.121
16616.28	0.121066	0.114349	0.05073178	-	0.121
451.497	0.121141	0.099687	0.0794446	-	0.121
7416.066	0.121167	0.077108	0.07897227	-	0.121
9039.07	0.121346	0.107267	0.01729509	-	0.121
8419.024	0.04372	0.12137	0.06125526	-	0.121
1416.956	0.12189	0.111626	0.08470238	-	0.122
591.1404	0.090507	0.122295	0.04698799	-	0.122
110.2435	0.068267	0.070998	0.12246073	-	0.122
280.6875	0.112376	0.122474	0.06175907	-	0.122
5275.887	0.12264	0.117944	0.05356019	-	0.123
16796.08	0.12274	0.119949	0.00450102	-	0.123
17394.85	0.123736	0.102261	0.05059415	-	0.124



262.4695	0.032573	0.079958	0.12443579	-	0.124
4832.79	0.107021	0.081176	0.12445347	-	0.124
995.9715	0.11755	0.124623	0.10351491	-	0.125
29837.36	0.043206	0.124817	0.00565491	-	0.125
9771.208	0.124882	0.107439	0.091225	-	0.125
11115.91	0.125076	0.074781	0.06364565	-	0.125
7842.319	0.117402	0.125237	0.03563914	-	0.125
1413.282	0.057885	0.079374	0.12524999	-	0.125
539.0695	0.060543	0.125468	0.06334063	-	0.125
8678.196	0.125508	0.111674	0.0852596	-	0.126
3173.736	0.1246	0.126	0.06710499	-	0.126
10477.22	0.12602	0.118532	0.00820173	-	0.126
3695.009	0.126592	0.065487	0.01251201	-	0.127
1207.542	0.126612	0.11914	0.01724255	-	0.127
546.3321	0.126734	0.099766	0.02474026	-	0.127
17734.33	0.111169	0.12697	0.04622646	-	0.127
589.9891	0.127125	0.123218	0.08396613	-	0.127
4121.448	0.127187	0.1097	0.00428092	-	0.127
16116.56	0.042102	0.127699	0.00505924	-	0.128
29036.93	0.127749	0.105265	0.07284205	-	0.128
26790.77	0.128813	0.099835	0.02857027	-	0.129
15625.62	0.124791	0.12936	0.06661315	-	0.129
2378.976	0.114159	0.112835	0.12993303	-	0.130
5232.76	0.129954	0.120512	0.0371822	-	0.130
9605.51	0.129983	0.124164	0.0578709	-	0.130
7991.108	0.038749	0.130092	0.04184772	-	0.130
2072.348	0.130162	0.104212	0.0199535	-	0.130
8506.379	0.130388	0.124505	0.0231682	-	0.130
2389.234	0.124627	0.130612	0.03847326	-	0.131
1788.924	0.130719	0.087344	0.0305662	-	0.131
2332.322	0.105538	0.130916	0.07902234	-	0.131
15845.71	0.123249	0.131108	0.0597258	-	0.131
4966.169	0.127283	0.131239	0.05578576	-	0.131
2238.695	0.116787	0.131437	0.08082175	-	0.131
326.2255	0.131534	0.120861	0.062424	-	0.132
11298.1	0.124265	0.131801	0.01210005	-	0.132
29821.35	0.130784	0.120037	0.13242932	-	0.132
1061.01	0.099954	0.132709	0.05767215	-	0.133
1844.302	0.094843	0.132774	0.04697686	-	0.133
71.3356	0.083752	0.075697	0.13277802	-	0.133
11797.76	0.088692	0.133005	0.03085825	-	0.133
1126.738	0.108579	0.111908	0.13332609	-	0.133
9052.86	0.133405	0.125125	0.05064295	-	0.133
1108.108	0.132146	0.133637	0.09731908	-	0.134
2198.265	0.13403	0.111288	0.01953386	-	0.134
3437.868	0.071724	0.134524	0.07977841	-	0.135
6659.026	0.134554	0.112627	0.08084689	-	0.135
753.9232	0.126063	0.134597	0.08122777	-	0.135
16704.33	0.100558	0.135446	0.00202506	-	0.135
4722.021	0.009278	0.135884	0.05644353	-	0.136
1403.866	0.136354	0.089624	0.0874795	-	0.136
6390.613	0.043726	0.13637	0.07541503	-	0.136
91.0684	0.123937	0.127769	0.13640956	-	0.136

29669.84	0.047218	0.136512	0.00855271	-	0.137
333.1495	0.123978	0.123542	0.13674852	-	0.137
208.8035	0.025648	0.119623	0.13690192	-	0.137
1052.654	0.101016	0.13692	0.02705001	-	0.137
1578.887	0.108278	0.137187	0.04657794	-	0.137
1558.238	0.137594	0.124805	0.1102212	+	0.138
1665.028	0.119211	0.13762	0.02890901	-	0.138
2570.739	0.116604	0.137703	0.06252269	-	0.138
64.2374	0.136487	0.098084	0.1378963	-	0.138
6709.86	0.13793	0.110603	0.00866371	-	0.138
1331.71	0.138227	0.135731	0.05018647	-	0.138
3791.13	0.138365	0.128255	0.09320946	-	0.138
3351.012	0.112314	0.13886	0.06342488	-	0.139
10049.97	0.139593	0.131782	0.03881313	-	0.140
5880.66	0.139666	0.133973	0.02531522	-	0.140
3798.206	0.135684	0.132465	0.13974376	-	0.140
9625.122	0.107603	0.092385	0.13979829	-	0.140
478.0875	0.139876	0.085768	0.03141182	-	0.140
132.5375	0.005775	0.077438	0.13993172	-	0.140
9413.527	0.140175	0.132396	0.02902456	-	0.140
2051.747	0.140211	0.132966	0.12930129	-	0.140
31718.02	0.140222	0.112416	0.00563754	-	0.140
1373.574	0.140312	0.100621	0.06901232	-	0.140
11079.82	0.140337	0.107608	0.13127969	-	0.140
34329.14	0.140396	0.120954	0.10841687	-	0.140
3188.922	0.131366	0.140443	0.13820519	-	0.140
5265.304	0.121062	0.141441	0.07643956	-	0.141
5161.708	0.106674	0.141729	0.0384178	-	0.142
182.2255	0.081694	0.14179	0.10560706	-	0.142
7848.062	0.141906	0.087459	0.04511438	-	0.142
606.4314	0.127626	0.142017	0.03914144	-	0.142
1056.39	0.140421	0.142166	0.11442617	-	0.142
137.966	0.127828	0.14222	0.11338083	-	0.142
5517.398	0.120195	0.142468	0.03125501	-	0.142
3416.238	0.142469	0.141237	0.02951654	-	0.142
1748.62	0.132813	0.142565	0.13606842	-	0.143
5695.444	0.142758	0.128209	0.05380081	-	0.143
2625.048	0.125924	0.142846	0.06040557	-	0.143
863.1695	0.031852	0.142957	0.05951496	-	0.143
696.8662	0.122877	0.143273	0.05164004	-	0.143
561.5415	0.115865	0.143379	0.13322168	-	0.143
3113.479	0.13222	0.143744	0.09153875	-	0.144
2169.064	0.126535	0.144265	0.04783977	-	0.144
206.5954	0.144724	0.115258	0.05675296	-	0.145
1008.482	0.131453	0.145053	0.06823893	-	0.145
5338.011	0.140821	0.145253	0.08319157	-	0.145
2476.716	0.145316	0.119728	0.00502044	-	0.145
31302.46	0.057236	0.145741	0.01081453	-	0.146
20364.44	0.090736	0.145769	0.08885557	-	0.146
27602.14	0.13254	0.132553	0.14578909	-	0.146
2648.367	0.146007	0.123484	0.03521245	-	0.146
371.1059	0.07109	0.066948	0.14601007	-	0.146
647.516	0.146305	0.141187	0.10158467	-	0.146

1949.022	0.105209	0.146466	0.05379698	-	0.146
1943.01	0.059743	0.146684	0.0117126	-	0.147
395.9798	0.146782	0.102618	0.08894545	-	0.147
6933.35	0.146914	0.121519	0.08093397	-	0.147
553.8914	0.147117	0.115979	0.02070929	-	0.147
6004.294	0.141152	0.147413	0.08598572	-	0.147
14840.84	0.147638	0.139263	0.1028944	-	0.148
3125.262	0.145565	0.147851	0.13679818	-	0.148
10197.91	0.147897	0.143996	0.05705669	-	0.148
3509.098	0.147989	0.146453	0.0645523	-	0.148
28697.85	0.051402	0.148338	0.00862403	-	0.148
10354.58	0.148401	0.145876	0.03183128	-	0.148
2067.352	0.081385	0.113935	0.14869617	-	0.149
5123.62	0.148844	0.118078	0.12812973	-	0.149
12469.49	0.147181	0.148887	0.07275486	-	0.149
105.0855	0.021598	0.149189	0.14140581	-	0.149
14533.65	0.122634	0.149225	0.06884255	-	0.149
4215.156	0.076591	0.149231	0.10712665	-	0.149
1104.776	0.149305	0.126978	0.11720164	-	0.149
4815.116	0.149392	0.126136	0.10569736	-	0.149
3168.376	0.132753	0.149658	0.13200629	-	0.150
3617.006	0.149751	0.135366	0.01593536	+	0.150
242.7055	0.074274	0.074579	0.14984498	-	0.150
625.9795	0.149752	0.149903	0.09961093	-	0.150
2452.146	0.149985	0.116013	0.04931118	-	0.150
6572.523	0.150226	0.145674	0.07903784	-	0.150
1321.601	0.024881	0.150371	0.03751064	+	0.150
195.5614	0.150568	0.121224	0.05936396	-	0.151
2314.866	0.122677	0.151014	0.13201726	-	0.151
3730.585	0.141083	0.151099	0.13161938	-	0.151
1613.204	0.125128	0.151191	0.04891925	-	0.151
2320.994	0.141345	0.151259	0.03102723	-	0.151
4822.667	0.060249	0.04714	0.15129404	-	0.151
424.3366	0.151714	0.10381	0.12498238	-	0.152
3933.588	0.151786	0.147045	0.06912913	-	0.152
898.6255	0.060881	0.151847	0.0124282	-	0.152
10744.85	0.141051	0.117311	0.15201998	-	0.152
110.9575	0.02201	0.055346	0.15236915	-	0.152
5208.604	0.14458	0.145447	0.15259052	-	0.153
426.7195	0.152607	0.134359	0.01920067	-	0.153
15357.25	0.08152	0.087209	0.1527113	-	0.153
3008.198	0.153081	0.1489	0.07723612	-	0.153
1578.078	0.032093	0.153561	0.0222963	-	0.154
7035.2	0.153577	0.151232	0.09064611	-	0.154
2171.596	0.153592	0.144157	0.10260461	-	0.154
7681.206	0.153498	0.15399	0.11450201	-	0.154
403.3575	0.154258	0.117842	0.04101746	-	0.154
650.7066	0.072547	0.108219	0.15432055	-	0.154
561.6155	0.154327	0.136883	0.04030622	-	0.154
29371.91	0.055718	0.154387	0.00957607	-	0.154
456.5335	0.048945	0.052067	0.15444255	-	0.154
8557.818	0.148331	0.154642	0.04214286	-	0.155
625.9618	0.125922	0.154673	0.02965532	-	0.155

133.1332	0.024293	0.033165	0.15473376	-	0.155
438.3435	0.154924	0.148756	0.05107547	-	0.155
2315.66	0.153036	0.155018	0.00444634	-	0.155
88.6229	0.155023	0.111363	0.09838315	-	0.155
10078.13	0.125574	0.155512	0.10899974	-	0.156
9875.472	0.155904	0.1448	0.11783331	-	0.156
9272.246	0.140825	0.155956	0.00157293	-	0.156
3456.789	0.061017	0.050515	0.15615632	+	0.156
1683.054	0.156229	0.128757	0.08733975	-	0.156
6251.694	0.156276	0.125498	0.13131197	-	0.156
13099.08	0.156282	0.133066	0.04547767	-	0.156
2720.286	0.156739	0.156217	0.03635979	-	0.157
1519.734	0.139135	0.156886	0.11014379	-	0.157
2169.115	0.1569	0.151265	0.0991794	-	0.157
4949.688	0.157002	0.155041	0.10136711	-	0.157
16572.56	0.068623	0.157008	0.01228703	-	0.157
117.6053	0.131122	0.157277	0.12299616	-	0.157
171.9655	0.153947	0.15728	0.14670094	-	0.157
279.4535	0.157317	0.149531	0.05749329	-	0.157
1013.728	0.014237	0.055152	0.15742446	-	0.157
899.2175	0.137476	0.103487	0.15805019	+	0.158
4550.344	0.084136	0.140992	0.15808158	-	0.158
36712.3	0.055157	0.158208	0.01142292	-	0.158
400.2595	0.147077	0.15843	0.13144547	-	0.158
1072.93	0.158819	0.135823	0.05811603	-	0.159
4661.568	0.159279	0.118179	0.05339395	-	0.159
990.3735	0.06688	0.101654	0.1594241	-	0.159
853.6595	0.155511	0.159493	0.11166349	-	0.159
6246.82	0.159573	0.137597	0.03276818	-	0.160
452.2161	0.111744	0.080931	0.15959803	-	0.160
1755.672	0.145579	0.16011	0.11671402	-	0.160
136.4855	0.160342	0.141093	0.04894952	-	0.160
4067.616	0.119869	0.160503	0.05716798	-	0.161
29948.67	0.157461	0.160518	0.11708647	-	0.161
108.4095	0.130407	0.160694	0.10881703	-	0.161
75.3495	0.1172	0.160839	0.14196511	-	0.161
1282.844	0.124159	0.160843	0.05633337	-	0.161
4258.378	0.137972	0.161158	0.04152039	-	0.161
3908.542	0.161181	0.108644	0.0499428	-	0.161
5145.201	0.121196	0.107235	0.16120022	-	0.161
3021.222	0.161532	0.114114	0.06552462	-	0.162
31189.02	0.161603	0.129021	0.00277647	-	0.162
4736.432	0.113986	0.112441	0.1618479	-	0.162
1109.208	0.162254	0.156991	0.07778238	-	0.162
3576.252	0.150132	0.162387	0.05525213	-	0.162
243.0755	0.045818	0.059187	0.16304564	-	0.163
2105.99	0.129565	0.163312	0.06754744	-	0.163
3928.886	0.163332	0.115563	0.06866973	-	0.163
2017.646	0.135919	0.163706	0.01936029	-	0.164
1621.397	0.123217	0.15311	0.16394103	-	0.164
93.7475	0.047484	0.164047	0.097433	-	0.164
683.7495	0.164167	0.102425	0.05120706	-	0.164
642.2783	0.012319	0.164442	0.02677391	-	0.164



12142.06	0.069803	0.139326	0.16450857	-	0.165
466.7697	0.098158	0.164658	0.12563519	-	0.165
1604.538	0.147757	0.164791	0.10934584	-	0.165
5084.652	0.040432	0.038487	0.16483322	-	0.165
201.9755	0.111441	0.164923	0.06923959	-	0.165
1671.423	0.125461	0.164934	0.06753737	-	0.165
2184.558	0.165022	0.139715	0.06227875	-	0.165
3931.545	0.165059	0.156747	0.08321473	-	0.165
555.9695	0.165197	0.111058	0.07042401	-	0.165
101.0884	0.028016	0.041899	0.16534835	-	0.165
2252.741	0.148993	0.165577	0.10199101	+	0.166
3965.865	0.165866	0.148333	0.09510115	-	0.166
159.9235	0.147688	0.166133	0.13742821	+	0.166
4833.362	0.072566	0.16624	0.00943559	-	0.166
119.3455	0.012799	0.110877	0.16637494	-	0.166
10257.11	0.166383	0.155984	0.15203518	-	0.166
5523.255	0.157643	0.166819	0.15833661	-	0.167
1201.08	0.108876	0.166879	0.0259007	-	0.167
6683.48	0.167582	0.131581	0.04257625	-	0.168
395.3667	0.167724	0.110179	0.10814239	-	0.168
3455.174	0.167956	0.107025	0.0628899	-	0.168
585.3015	0.168077	0.109567	0.03115317	-	0.168
79.2415	0.123786	0.168159	0.09476095	-	0.168
8252.372	0.150732	0.168187	0.06908602	-	0.168
1694.976	0.145462	0.117002	0.16854602	-	0.169
5931.439	0.168738	0.143541	0.02697954	-	0.169
711.5176	0.045479	0.03919	0.168933	-	0.169
4492.813	0.169635	0.157179	0.11517317	-	0.170
7690.555	0.143286	0.123812	0.1698267	-	0.170
191.1629	0.142884	0.169903	0.14829342	-	0.170
236.3948	0.063232	0.106984	0.16995763	-	0.170
204.4582	0.166939	0.120385	0.170248	-	0.170
4097.802	0.170546	0.107593	0.05406154	-	0.171
3546.361	0.170637	0.144814	0.09299593	-	0.171
12257.77	0.170907	0.123793	0.03934479	-	0.171
1569.612	0.171236	0.155082	0.11164897	-	0.171
784.3655	0.171582	0.152815	0.06157321	-	0.172
5390.042	0.171683	0.121482	0.09609007	-	0.172
9895.768	0.17203	0.154091	0.0153166	-	0.172
133.9475	0.17224	0.168096	0.08020082	-	0.172
390.2087	0.155459	0.17234	0.16899879	-	0.172
148.9289	0.142069	0.172353	0.04027895	-	0.172
9957.946	0.172384	0.147957	0.03349059	+	0.172
277.8475	0.075956	0.172666	0.14087188	-	0.173
8240.814	0.172754	0.142965	0.06689017	-	0.173
635.9215	0.172841	0.17145	0.12915037	-	0.173
28954.19	0.057551	0.172872	0.00837728	-	0.173
15196.75	0.172964	0.127965	0.11298258	-	0.173
4104.242	0.172972	0.099534	0.0542902	-	0.173
180.5065	0.032742	0.04999	0.17304695	-	0.173
3809.267	0.173128	0.164225	0.15761601	-	0.173
28705.57	0.05318	0.17319	0.00886711	-	0.173
14346.93	0.173283	0.169664	0.12087992	-	0.173

7558.22	0.173416	0.164277	0.07045356	-	0.173
14623.31	0.173498	0.170033	0.09171271	-	0.173
16132.49	0.173681	0.141932	0.11058004	-	0.174
4665.952	0.133426	0.173682	0.12792278	-	0.174
627.3775	0.17378	0.143868	0.03956836	-	0.174
3441.948	0.173858	0.104182	0.02557259	-	0.174
64.93	0.044705	0.050712	0.17388572	-	0.174
1941.001	0.173952	0.170516	0.05022743	-	0.174
397.1055	0.04282	0.065922	0.17396309	-	0.174
466.4535	0.172858	0.174143	0.04884774	-	0.174
16084.71	0.172758	0.174356	0.09607445	-	0.174
42.8834	0.063932	0.091942	0.1743705	-	0.174
515.1886	0.174575	0.165103	0.11195822	-	0.175
6317.706	0.174707	0.115332	0.09714563	-	0.175
13114.4	0.174754	0.146122	0.00294129	-	0.175
5623.243	0.174781	0.131595	0.09050099	-	0.175
9896.902	0.104767	0.110105	0.17530653	-	0.175
555.9882	0.071269	0.066947	0.17562063	-	0.176
90.6895	0.17568	0.17077	0.13596833	-	0.176
492.4174	0.14331	0.176335	0.0401113	-	0.176
1722.361	0.096139	0.176755	0.0481132	-	0.177
723.8675	0.059628	0.150858	0.17714015	-	0.177
195.2635	0.131493	0.177181	0.16534427	-	0.177
2263.077	0.151923	0.171031	0.1773875	-	0.177
721.0815	0.1774	0.164351	0.03367012	-	0.177
929.6245	0.177825	0.117603	0.04736794	-	0.178
4487.63	0.178048	0.149039	0.02542151	-	0.178
330.4255	0.025598	0.178093	0.02455531	-	0.178
259.8115	0.160555	0.178319	0.14516063	+	0.178
4670.443	0.165925	0.178351	0.10696863	-	0.178
2554.456	0.162503	0.178595	0.04020959	-	0.179
1742.068	0.177812	0.170963	0.17865984	-	0.179
147.4255	0.178712	0.095409	0.15058589	-	0.179
352.2839	0.130502	0.178947	0.07006111	+	0.179
511.9879	0.179156	0.170258	0.06940281	-	0.179
161.5915	0.157665	0.179784	0.09900026	-	0.180
1071.67	0.179787	0.159103	0.02880888	-	0.180
7393.538	0.090808	0.180401	0.1108441	-	0.180
80.5215	0.099056	0.087295	0.18083369	-	0.181
2356.579	0.170477	0.180918	0.05097538	-	0.181
1344.836	0.135936	0.137259	0.1809254	-	0.181
294.0675	0.180257	0.181146	0.16386918	-	0.181
2198.324	0.145113	0.181516	0.07537903	-	0.182
279.9755	0.181705	0.158909	0.17496281	-	0.182
31531.54	0.147329	0.182379	0.11865254	-	0.182
1635.273	0.181112	0.182458	0.06533191	-	0.182
250.5875	0.164044	0.182519	0.06745628	-	0.183
367.5415	0.079999	0.114838	0.18281419	-	0.183
68.1086	0.062513	0.067198	0.18281539	-	0.183
655.3895	0.081359	0.091749	0.18310257	-	0.183
460.2961	0.168996	0.183248	0.04637667	-	0.183
13042.23	0.148581	0.18376	0.03728355	-	0.184
10622.07	0.152128	0.183835	0.02880018	-	0.184



2086.422	0.151465	0.165716	0.18384752	-	0.184
13536.78	0.164408	0.184122	0.00506641	-	0.184
7881.67	0.184546	0.178188	0.01546341	-	0.185
39.5567	0.060628	0.042781	0.18473988	-	0.185
4651.913	0.054251	0.173631	0.18477418	-	0.185
13937.31	0.184843	0.164411	0.06108766	-	0.185
338.1415	0.126796	0.126484	0.1849007	-	0.185
188.3943	0.115389	0.184926	0.18195508	-	0.185
470.7582	0.185222	0.16187	0.08900174	-	0.185
147.7855	0.18542	0.167382	0.17813047	-	0.185
1293.846	0.175928	0.185721	0.08636232	-	0.186
11166.9	0.18582	0.182622	0.12816001	-	0.186
990.7535	0.116815	0.137744	0.18591254	-	0.186
165.4115	0.186144	0.147645	0.13867053	-	0.186
1130.781	0.182496	0.18616	0.02455339	-	0.186
1711.814	0.186368	0.132897	0.14583528	-	0.186
5180.568	0.186402	0.138627	0.06185606	-	0.186
413.1104	0.186402	0.186556	0.10278124	-	0.187
1944.683	0.136941	0.129781	0.18690939	-	0.187
55.1082	0.102362	0.186989	0.17642928	-	0.187
1899.494	0.1528	0.187055	0.09506929	-	0.187
4378.078	0.094505	0.096655	0.18709433	-	0.187
2872.313	0.163738	0.187217	0.04452561	-	0.187
4959.418	0.18741	0.14865	0.0727188	-	0.187
884.5165	0.160518	0.18745	0.16717325	-	0.187
2077.463	0.165721	0.168971	0.18754392	-	0.188
3529.7	0.187712	0.12782	0.07301681	-	0.188
14051.32	0.188821	0.136632	0.11904403	-	0.189
2817.224	0.125919	0.117334	0.18882899	-	0.189
3430.375	0.135055	0.188908	0.05801159	-	0.189
1831.419	0.108621	0.18938	0.01267673	-	0.189
3704.659	0.189439	0.175719	0.14031723	-	0.189
203.8375	0.136406	0.12117	0.1895608	-	0.190
95.7715	0.048414	0.092216	0.1896535	-	0.190
12114.22	0.189861	0.164689	0.11351928	-	0.190
3217.764	0.190019	0.177283	0.10822284	-	0.190
14084.92	0.190265	0.178879	0.12886647	-	0.190
363.5888	0.153101	0.190303	0.1567199	-	0.190
2929.981	0.190333	0.170797	0.16351764	-	0.190
1955.695	0.126179	0.148195	0.19084662	+	0.191
747.9495	0.190885	0.119784	0.09034273	-	0.191
3462.634	0.191514	0.191468	0.02675117	-	0.192
17504.42	0.139579	0.191685	0.00757166	-	0.192
108.4855	0.168657	0.191813	0.1183808	-	0.192
11078.32	0.191858	0.148232	0.02556677	-	0.192
5654.15	0.141085	0.191868	0.05159423	-	0.192
15408.66	0.191933	0.089289	0.07277152	-	0.192
5224.401	0.192001	0.161397	0.16852008	-	0.192
3656.074	0.172631	0.153247	0.19203473	-	0.192
3408.896	0.125186	0.192129	0.05181898	-	0.192
173.9509	0.192299	0.157472	0.17330753	-	0.192
109.9055	0.155085	0.151951	0.19236981	-	0.192
2891.389	0.169496	0.192704	0.02535097	-	0.193

75.6535	0.023469	0.032727	0.19276967	-	0.193
2530.21	0.151768	0.193056	0.04214998	-	0.193
8297.014	0.119723	0.19325	0.02258819	-	0.193
2534.972	0.146298	0.193401	0.04466618	-	0.193
2448.284	0.191849	0.17322	0.19340305	-	0.193
8572.466	0.148109	0.193563	0.04501049	-	0.194
4467.146	0.194041	0.147968	0.02803557	-	0.194
14197.02	0.19405	0.143997	0.15856671	-	0.194
21815.05	0.194291	0.138965	0.06539665	-	0.194
429.6315	0.194339	0.058458	0.11138545	-	0.194
785.4035	0.194559	0.166223	0.09902362	-	0.195
3774.706	0.066369	0.082202	0.19466194	-	0.195
362.6155	0.161693	0.195167	0.04015548	-	0.195
4307.806	0.152426	0.195311	0.05684792	-	0.195
1661.248	0.195602	0.160221	0.09953935	-	0.196
459.3995	0.177679	0.167938	0.19567762	-	0.196
971.9875	0.160488	0.157655	0.19587855	-	0.196
5028.292	0.195984	0.145985	0.11730726	-	0.196
1517.644	0.082837	0.187209	0.19607543	-	0.196
1046.1	0.135402	0.19613	0.02008987	-	0.196
7214.241	0.188645	0.196438	0.12413324	-	0.196
2412.399	0.119205	0.111799	0.19659748	-	0.197
5341.404	0.196686	0.17646	0.14467817	-	0.197
1545.374	0.196911	0.151811	0.0093523	-	0.197
4125.716	0.197093	0.194572	0.100489	-	0.197
7447.284	0.1977	0.18524	0.12417756	-	0.198
951.807	0.197935	0.179352	0.09718052	-	0.198
3161.091	0.198097	0.145653	0.00720767	-	0.198
3635.088	0.198119	0.196648	0.0298979	-	0.198
1229.982	0.1212	0.094272	0.19832835	-	0.198
1513.192	0.198336	0.186978	0.18190659	-	0.198
194.9555	0.198423	0.157589	0.12161186	-	0.198
812.1315	0.198435	0.122361	0.07141959	-	0.198
1943.652	0.185454	0.181308	0.19853575	-	0.199
4319.712	0.170416	0.19867	0.04101792	-	0.199
1796.224	0.198717	0.173773	0.19639621	-	0.199
1007.494	0.149433	0.199008	0.05273543	-	0.199
2582.16	0.199753	0.160888	0.10206475	-	0.200
3235.421	0.199846	0.16191	0.06113996	-	0.200
1741.564	0.199912	0.159195	0.05263746	-	0.200
58.5518	0.012985	0.020851	0.20016635	-	0.200
151.5392	0.200223	0.117645	0.0499963	-	0.200
243.8877	0.167242	0.200627	0.05859008	-	0.201
863.2035	0.035368	0.03476	0.20099768	-	0.201
131.6341	0.158997	0.201127	0.17414864	-	0.201
7994.56	0.201154	0.175421	0.07395373	-	0.201
713.2851	0.195497	0.201269	0.05727317	-	0.201
422.4435	0.167067	0.201411	0.14922232	-	0.201
1005.468	0.147582	0.201653	0.07319928	-	0.202
545.6455	0.201962	0.140694	0.02376305	+	0.202
1049.76	0.202288	0.111486	0.02966051	-	0.202
542.3815	0.202334	0.122972	0.13827813	-	0.202
3188.194	0.125754	0.105985	0.20237523	-	0.202



307.2849	0.199825	0.202476	0.04247394	-	0.202
3734.408	0.17403	0.202591	0.04428887	+	0.203
4078.01	0.17505	0.202832	0.05913324	-	0.203
81.5444	0.202968	0.124277	0.19427821	-	0.203
13982.45	0.129776	0.203021	0.09442534	-	0.203
2436.908	0.203094	0.148918	0.0883675	-	0.203
28782.49	0.061364	0.20314	0.00917042	-	0.203
170.5595	0.203343	0.148558	0.0571179	-	0.203
9098.014	0.196696	0.203902	0.1357931	-	0.204
2210.432	0.190175	0.200726	0.20398746	-	0.204
6217.69	0.204033	0.163275	0.08535445	-	0.204
4541.396	0.172906	0.204035	0.0850918	-	0.204
2595.696	0.182693	0.204327	0.07081998	-	0.204
1696.879	0.204506	0.150451	0.05935102	-	0.205
429.559	0.114304	0.205184	0.07154221	-	0.205
596.0619	0.205197	0.155746	0.0886366	-	0.205
715.116	0.059823	0.146145	0.20530306	-	0.205
138.8271	0.205451	0.191407	0.12795773	-	0.205
1531.2	0.188764	0.205522	0.03402115	-	0.206
1192.172	0.205762	0.135764	0.02466289	-	0.206
20467.43	0.144993	0.166267	0.20597351	-	0.206
730.0615	0.206006	0.203475	0.07662094	-	0.206
1296.649	0.091887	0.108555	0.20602731	-	0.206
51.5931	0.092973	0.166773	0.20614191	-	0.206
27044.8	0.057192	0.206282	0.00909156	-	0.206
160.0435	0.157254	0.1712	0.20637889	-	0.206
1633.406	0.15528	0.206401	0.12826251	-	0.206
6934.365	0.206689	0.205105	0.19308012	-	0.207
57.9361	0.145166	0.106929	0.20696077	-	0.207
1340.852	0.092833	0.110207	0.20713354	-	0.207
537.0935	0.207258	0.164455	0.05798339	-	0.207
196.883	0.137699	0.207447	0.17995307	-	0.207
4131.905	0.123227	0.105409	0.20756757	-	0.208
202.0333	0.191015	0.20768	0.18151166	-	0.208
2333.155	0.159714	0.207731	0.030285	-	0.208
11791.71	0.20854	0.153064	0.01791492	+	0.209
689.5314	0.127919	0.07193	0.20873814	-	0.209
95.9598	0.107329	0.126426	0.20882807	-	0.209
464.5607	0.080783	0.105816	0.20882955	-	0.209
19152.28	0.208871	0.149744	0.09101554	+	0.209
1034.013	0.189765	0.209098	0.05250139	-	0.209
2101.666	0.209151	0.141095	0.15500729	-	0.209
275.8195	0.105108	0.160325	0.20918137	-	0.209
278.2995	0.072514	0.14008	0.20932916	-	0.209
1703.433	0.206467	0.209378	0.14776251	-	0.209
3197.994	0.102179	0.209433	0.11118456	-	0.209
3319.79	0.207272	0.209891	0.10526424	-	0.210
274.4405	0.21002	0.178336	0.1131841	-	0.210
404.8434	0.210193	0.158484	0.11776381	-	0.210
99.2955	0.037611	0.045025	0.21043451	-	0.210
1888.277	0.203448	0.210546	0.06967171	-	0.211
1097.248	0.180772	0.210686	0.081817	-	0.211
183.6895	0.210895	0.169372	0.12971455	+	0.211

4352.98	0.179069	0.210963	0.13138024	-	0.211
5555.914	0.211019	0.205702	0.13012607	-	0.211
3341.676	0.20734	0.211235	0.05167614	-	0.211
7313.176	0.159411	0.211581	0.08580698	-	0.212
2600.64	0.21163	0.154597	0.01067714	-	0.212
5684.658	0.112139	0.21187	0.19610181	-	0.212
250.3791	0.125655	0.211877	0.14325876	-	0.212
10386.75	0.212202	0.194246	0.05109108	-	0.212
163.2095	0.188757	0.212205	0.10581982	-	0.212
55.3659	0.206926	0.212212	0.14444992	-	0.212
3231.712	0.149804	0.152001	0.2124678	-	0.212
652.3021	0.212485	0.170048	0.08262644	-	0.212
4860.112	0.21256	0.166944	0.15650493	-	0.213
1317.122	0.113877	0.212769	0.04006525	-	0.213
3825.254	0.213167	0.2075	0.04827066	-	0.213
179.6378	0.008022	0.007347	0.21333261	-	0.213
718.2831	0.213705	0.085728	0.06160343	-	0.214
770.8355	0.213765	0.21389	0.08236803	-	0.214
587.021	0.213907	0.186188	0.11430562	-	0.214
331.8187	0.046542	0.049136	0.2139358	-	0.214
646.6495	0.188322	0.21439	0.12656192	-	0.214
364.1095	0.196678	0.165204	0.21442725	-	0.214
525.5235	0.151469	0.214458	0.16740165	-	0.214
1350.802	0.195358	0.130657	0.21465856	-	0.215
1939.934	0.089982	0.214743	0.07538274	-	0.215
93.4369	0.133108	0.099644	0.21478238	-	0.215
99.5755	0.214828	0.1832	0.20857139	-	0.215
948.0355	0.211549	0.215148	0.03052111	-	0.215
1898.246	0.21515	0.178571	0.10181038	-	0.215
3427.016	0.147763	0.215165	0.20916027	-	0.215
961.0615	0.200764	0.215458	0.06635715	-	0.215
954.2315	0.202971	0.215779	0.14611706	-	0.216
978.216	0.216131	0.201255	0.09569001	-	0.216
136.1275	0.21453	0.216227	0.13450625	-	0.216
2881.526	0.191757	0.216249	0.05479822	-	0.216
2027.178	0.025391	0.216353	0.19801392	-	0.216
33.1669	0.028153	0.150935	0.2163633	-	0.216
132.8958	0.17432	0.182908	0.21639585	-	0.216
1279.917	0.211912	0.216421	0.04339171	-	0.216
22366.16	0.216699	0.170259	0.08259624	-	0.217
5776.489	0.205431	0.193599	0.21671598	-	0.217
27973.51	0.216755	0.198656	0.2126826	-	0.217
1763.53	0.217143	0.189037	0.1310579	-	0.217
5570.236	0.068305	0.217384	0.09350009	-	0.217
6026.444	0.217523	0.178193	0.05589159	-	0.218
345.308	0.217544	0.163777	0.11586178	-	0.218
1566.233	0.217545	0.183363	0.0226785	-	0.218
4771.378	0.2176	0.194952	0.1527059	-	0.218
171.5095	0.213994	0.217979	0.1023815	-	0.218
124.1035	0.214844	0.205594	0.21799869	-	0.218
562.6175	0.159316	0.218145	0.18091421	-	0.218
1006.8	0.218206	0.14234	0.08077825	-	0.218
1724.433	0.21828	0.143102	0.08246974	-	0.218

7957.19	0.193937	0.218317	0.15070429	-	0.218
1848.726	0.218383	0.212886	0.09438692	-	0.218
1975.822	0.1404	0.218556	0.01647477	-	0.219
750.0255	0.218763	0.181458	0.098052	-	0.219
2473.526	0.12462	0.130354	0.21881824	-	0.219
10276.81	0.218899	0.167083	0.1463672	-	0.219
5297.532	0.219282	0.196816	0.11409078	-	0.219
3462.779	0.219688	0.165351	0.12957942	-	0.220
678.4575	0.182012	0.201876	0.21979195	-	0.220
281.9795	0.219811	0.209414	0.07740988	-	0.220
108.0793	0.161023	0.219817	0.12192344	-	0.220
29402.35	0.166536	0.220269	0.15441682	-	0.220
106.6165	0.220335	0.178364	0.18591119	-	0.220
978.2615	0.203782	0.22046	0.0722588	-	0.220
549.8595	0.220478	0.211161	0.03943535	-	0.220
193.4321	0.099627	0.097824	0.22081288	-	0.221
795.7635	0.221014	0.213157	0.06540335	-	0.221
740.4471	0.2211	0.197917	0.19178197	-	0.221
1470.96	0.221402	0.201235	0.13669164	-	0.221
9636.685	0.221559	0.147219	0.06593798	-	0.222
8552.63	0.137795	0.221693	0.07588557	-	0.222
34232.68	0.20316	0.221819	0.19541399	-	0.222
21663.74	0.14216	0.166052	0.22183926	-	0.222
8726.076	0.221966	0.201494	0.05960917	-	0.222
71.3071	0.126731	0.16526	0.22211533	-	0.222
48.0944	0.133873	0.166912	0.22211942	-	0.222
51.6779	0.161441	0.172099	0.22213944	-	0.222
2011.7	0.183402	0.222182	0.15199457	-	0.222
259.4895	0.156714	0.215114	0.22226834	-	0.222
249.0925	0.222591	0.184745	0.14278029	-	0.223
1960.523	0.172541	0.222873	0.14796641	-	0.223
257.6795	0.109055	0.076108	0.22293857	-	0.223
14172.62	0.205429	0.223028	0.03166866	-	0.223
412.1295	0.05363	0.067928	0.22324027	-	0.223
2063.312	0.223378	0.16297	0.187797	-	0.223
1861.253	0.179252	0.193558	0.22338372	-	0.223
5316.314	0.223743	0.191099	0.11820059	+	0.224
2302.186	0.224378	0.214519	0.08884493	-	0.224
2123.843	0.224692	0.166947	0.2005075	-	0.225
12019.46	0.224956	0.202341	0.20284288	-	0.225
562.8805	0.220108	0.224994	0.15626674	-	0.225
872.0075	0.186546	0.212542	0.22512134	-	0.225
207.0975	0.205689	0.225473	0.17439419	-	0.225
699.7347	0.189926	0.183371	0.22588647	-	0.226
9689.504	0.226192	0.187845	0.12398938	+	0.226
108.4175	0.163066	0.218466	0.22620333	-	0.226
897.3235	0.22624	0.184591	0.07580287	-	0.226
3148.132	0.226322	0.199278	0.14374482	-	0.226
1015.933	0.226384	0.087164	0.00793733	-	0.226
226.5415	0.226469	0.205388	0.09965371	-	0.226
4048.23	0.121018	0.226486	0.20945539	-	0.226
6301.354	0.200349	0.22652	0.14882952	-	0.227
34758.97	0.213996	0.209249	0.22686893	-	0.227

659.7986	0.200653	0.226908	0.09472345	-	0.227
7850.322	0.226984	0.218494	0.02163038	-	0.227
791.2752	0.227028	0.14783	0.07648717	-	0.227
8002.112	0.222967	0.227034	0.01221996	-	0.227
1872.236	0.227233	0.172534	0.07093098	-	0.227
2055.533	0.060288	0.22735	0.20719564	-	0.227
246.4955	0.175437	0.115391	0.22749137	-	0.227
1427.676	0.09789	0.227494	0.21756022	-	0.227
321.3735	0.077582	0.068292	0.22754583	-	0.228
141.1352	0.073088	0.183812	0.22784819	-	0.228
1260.13	0.202984	0.227992	0.03825742	-	0.228
4562.014	0.147377	0.227999	0.04670119	-	0.228
629.2122	0.203671	0.228211	0.18482398	-	0.228
1343.154	0.13735	0.113064	0.22828762	-	0.228
11171.98	0.228519	0.205244	0.10610647	-	0.229
261.2995	0.063835	0.228656	0.14450583	-	0.229
6891.772	0.228905	0.20485	0.12523739	-	0.229
3144.896	0.22694	0.157294	0.22895167	-	0.229
846.5135	0.186271	0.16458	0.22904714	-	0.229
3098.886	0.175033	0.22917	0.01837199	-	0.229
2619.475	0.147683	0.151296	0.22917935	-	0.229
9444.024	0.200408	0.229686	0.19048048	-	0.230
3351.868	0.229939	0.217353	0.05518759	-	0.230
12733.89	0.185953	0.230329	0.11158271	-	0.230
3500.34	0.199686	0.230415	0.16528259	-	0.230
735.8395	0.196602	0.230485	0.12168034	-	0.230
11862.69	0.230487	0.19482	0.03976448	-	0.230
154.9415	0.230604	0.16102	0.13581255	-	0.231
1382.478	0.230735	0.212209	0.19032896	-	0.231
242.1158	0.230875	0.223912	0.11626874	-	0.231
1008.982	0.230948	0.199618	0.08419272	-	0.231
10369.33	0.178919	0.231047	0.07348031	+	0.231
1632.49	0.231091	0.208721	0.08785443	-	0.231
1037.23	0.224545	0.231257	0.05434198	-	0.231
2482.496	0.213937	0.23128	0.09376875	-	0.231
4596.388	0.162645	0.231451	0.09773881	-	0.231
360.8015	0.231497	0.213984	0.02616148	-	0.231
694.1444	0.192429	0.231559	0.09786105	-	0.232
420.9176	0.188271	0.231606	0.06736473	-	0.232
593.8755	0.201419	0.2317	0.15233748	-	0.232
100.1445	0.159133	0.23189	0.11247447	-	0.232
3468.36	0.195191	0.232206	0.13662574	-	0.232
4574.804	0.216068	0.232276	0.00874177	-	0.232
162.1835	0.232293	0.208415	0.07856718	-	0.232
58.061	0.23235	0.118839	0.12714903	-	0.232
82.4555	0.140209	0.11244	0.23248176	-	0.232
165.7075	0.232621	0.19052	0.17315873	-	0.233
1685.462	0.232775	0.202197	0.0666936	-	0.233
6573.956	0.232826	0.151082	0.06529182	-	0.233
49.8058	0.232901	0.170114	0.15203651	-	0.233
3021.905	0.129945	0.233027	0.1028693	-	0.233
6065.139	0.073261	0.233374	0.17769305	-	0.233
483.9471	0.152967	0.233456	0.08617367	-	0.233



2082.716	0.233458	0.187896	0.07355008	-	0.233
578.1135	0.188577	0.233528	0.09895738	-	0.234
998.0117	0.218068	0.233945	0.19687895	-	0.234
3379.193	0.234163	0.214371	0.17294646	-	0.234
171.9037	0.231031	0.234533	0.06783391	-	0.235
379.0214	0.234575	0.188817	0.22195211	-	0.235
246.9775	0.234597	0.154181	0.12983936	-	0.235
195.3275	0.234734	0.208427	0.07886191	-	0.235
274.7887	0.235008	0.1851	0.05322817	-	0.235
1583.76	0.235591	0.223034	0.08988429	-	0.236
1392.85	0.132399	0.107207	0.23562022	-	0.236
2023.056	0.235623	0.158565	0.23319059	-	0.236
8518.884	0.156123	0.236133	0.01940718	-	0.236
226.8775	0.236402	0.181663	0.16054787	+	0.236
51.6853	0.236477	0.177776	0.17520649	-	0.236
714.3795	0.178974	0.159117	0.23662577	+	0.237
150.0435	0.237004	0.104821	0.22289336	-	0.237
2171.08	0.171629	0.237851	0.10792631	-	0.238
1492.464	0.23801	0.181245	0.04084173	-	0.238
150.6555	0.070328	0.072833	0.23810614	-	0.238
61.6446	0.133499	0.099133	0.23822362	-	0.238
414.2416	0.024354	0.030131	0.23827037	-	0.238
72.7916	0.207818	0.144717	0.23876519	-	0.239
36.9081	0.168761	0.112422	0.23890149	-	0.239
1215.686	0.095335	0.129778	0.23896921	-	0.239
1026.528	0.239194	0.220253	0.17102211	-	0.239
279.6535	0.239355	0.205213	0.11654065	-	0.239
651.2755	0.155807	0.239589	0.12164053	-	0.240
494.9535	0.158079	0.239596	0.07087757	-	0.240
3857.732	0.239642	0.234218	0.2116512	-	0.240
1824.82	0.230988	0.239719	0.20665897	-	0.240
194.7853	0.21145	0.239858	0.16890546	-	0.240
2168.306	0.208933	0.240315	0.10573303	-	0.240
1164.253	0.22034	0.240447	0.19276356	+	0.240
989.6887	0.23613	0.240447	0.1992864	-	0.240
268.0212	0.240511	0.237759	0.1352837	-	0.241
4165.462	0.198711	0.183533	0.24055042	-	0.241
2831.1	0.157056	0.240604	0.09274754	-	0.241
7641.972	0.240661	0.187787	0.03954926	-	0.241
1735.916	0.240902	0.167531	0.08395858	-	0.241
2343.84	0.060412	0.059328	0.24096503	-	0.241
1969.552	0.240989	0.167437	0.21874406	-	0.241
24842.35	0.241075	0.231936	0.1903079	-	0.241
6857.892	0.086745	0.095605	0.24109805	-	0.241
115.0589	0.155282	0.217383	0.24118169	-	0.241
819.4655	0.194195	0.241654	0.19555613	-	0.242
1139.942	0.24194	0.19679	0.20972164	-	0.242
6669.554	0.23795	0.242161	0.10856542	-	0.242
10424.76	0.242301	0.190568	0.09814555	-	0.242
3918.58	0.222703	0.242306	0.1000596	-	0.242
11508.3	0.169649	0.242458	0.22986523	-	0.242
14918.3	0.15011	0.222335	0.24270343	-	0.243
2941.418	0.242788	0.223764	0.23376875	-	0.243

2027.528	0.242824	0.188389	0.08751421	-	0.243
69.2657	0.211781	0.242839	0.145349	-	0.243
95.8051	0.052999	0.059537	0.24307892	-	0.243
2855.052	0.243254	0.206797	0.17590996	-	0.243
1471.49	0.172293	0.115664	0.24372434	-	0.244
285.6015	0.243932	0.204892	0.09910032	+	0.244
30324.08	0.243951	0.189472	0.21011271	-	0.244
2239.944	0.244338	0.178259	0.14949908	-	0.244
1391.217	0.042862	0.244385	0.02986679	-	0.244
3314.384	0.244421	0.241648	0.08185459	-	0.244
62.4864	0.183338	0.118428	0.2444724	-	0.244
190.4682	0.244629	0.220783	0.09492608	-	0.245
544.6095	0.244902	0.206382	0.12989344	+	0.245
318.3115	0.230495	0.245146	0.12586601	-	0.245
29919.11	0.245247	0.225823	0.20861902	-	0.245
2218.195	0.063247	0.237201	0.24529745	-	0.245
642.616	0.189984	0.192911	0.24529813	-	0.245
79.6155	0.245572	0.158059	0.16975212	-	0.246
10509.06	0.245586	0.195864	0.09976565	-	0.246
1601.681	0.245688	0.197937	0.03085634	-	0.246
2804.325	0.225061	0.24576	0.07347944	-	0.246
2142.775	0.090657	0.100274	0.24596118	-	0.246
562.9815	0.176542	0.162051	0.24607114	-	0.246
2438.98	0.246119	0.226094	0.1300958	-	0.246
21682.51	0.228923	0.246205	0.05177987	-	0.246
9582.063	0.246357	0.193349	0.11610062	-	0.246
142.3375	0.146225	0.246584	0.08595697	-	0.247
2674.06	0.246864	0.158843	0.12687837	-	0.247
4560.882	0.217508	0.247069	0.12720971	-	0.247
98.0247	0.247093	0.198753	0.18468712	-	0.247
5647.686	0.247218	0.23749	0.10267985	-	0.247
2645.646	0.238363	0.247459	0.18464273	-	0.247
149.5615	0.219869	0.247659	0.1586324	-	0.248
1494.794	0.150751	0.247705	0.08241506	-	0.248
14828.45	0.247802	0.168168	0.1443877	-	0.248
1230.118	0.178225	0.128548	0.24784043	-	0.248
327.8207	0.247976	0.231484	0.0685393	-	0.248
9713.078	0.248177	0.237476	0.19420643	-	0.248
2394.706	0.248277	0.209853	0.1039304	-	0.248
5169.878	0.248323	0.208496	0.14176264	-	0.248
9461.346	0.199013	0.248398	0.15780541	+	0.248
1036.718	0.248471	0.228985	0.04935182	-	0.248
7697.038	0.238961	0.248485	0.11395001	-	0.248
3366.902	0.113985	0.098268	0.24909238	-	0.249
9233.571	0.241511	0.249122	0.09530977	-	0.249
197.3675	0.24916	0.220813	0.0947385	-	0.249
166.2355	0.249433	0.158586	0.11827618	-	0.249
8833.424	0.249608	0.214996	0.04252185	-	0.250
202.4445	0.249792	0.247206	0.12977088	-	0.250
477.7915	0.184631	0.249842	0.20165177	-	0.250
2866.424	0.215132	0.250036	0.03552214	-	0.250
33.0454	0.113115	0.061154	0.25007717	-	0.250
1180.266	0.250718	0.241519	0.07943933	-	0.251



2491.018	0.169835	0.158353	0.25074248	-	0.251
11239.37	0.210977	0.250844	0.17675584	-	0.251
13633.38	0.16218	0.250878	0.21258644	-	0.251
40.5941	0.141165	0.160971	0.25101677	-	0.251
257.2735	0.19039	0.251103	0.20232204	-	0.251
799.4907	0.251128	0.199049	0.0350338	-	0.251
1077.542	0.242057	0.251418	0.09577088	-	0.251
17776.73	0.251543	0.220532	0.18663037	-	0.252
1506.366	0.251977	0.251083	0.1432066	-	0.252
109.9575	0.007583	0.00769	0.25207012	-	0.252
1828.273	0.252232	0.21197	0.23815672	-	0.252
713.8495	0.208985	0.192078	0.2524972	-	0.252
21000.94	0.247186	0.252663	0.055749	-	0.253
108.3246	0.134744	0.191963	0.25268406	-	0.253
238.0015	0.204783	0.253111	0.13693611	-	0.253
1830.545	0.21735	0.253182	0.07582145	-	0.253
1141.34	0.1724	0.253269	0.24419334	-	0.253
231.6359	0.25328	0.225245	0.18146712	-	0.253
2094.332	0.253743	0.206562	0.15759958	-	0.254
3244.064	0.197484	0.157787	0.25386972	-	0.254
120.0515	0.1621	0.09129	0.25411428	-	0.254
356.4675	0.139307	0.254144	0.13609908	-	0.254
1095.976	0.254305	0.254219	0.06938066	-	0.254
4394.04	0.255105	0.236436	0.11504573	-	0.255
249.6202	0.255311	0.254902	0.1581078	-	0.255
247.4079	0.202884	0.255396	0.10193369	-	0.255
245.124	0.250744	0.25571	0.07921705	-	0.256
687.7795	0.256334	0.246052	0.04537355	-	0.256
173.5788	0.240438	0.197533	0.25652096	-	0.257
3632.895	0.249451	0.256752	0.25275477	-	0.257
3428.67	0.249714	0.245539	0.25688375	-	0.257
2792.665	0.257021	0.257381	0.0750328	-	0.257
3269.754	0.212562	0.257471	0.13519903	-	0.257
192.2435	0.241139	0.257507	0.23679552	-	0.258
8259.02	0.221357	0.257516	0.03478446	-	0.258
80.9435	0.155366	0.257552	0.10050838	-	0.258
2183.292	0.257601	0.223367	0.05321942	-	0.258
70.3276	0.248116	0.230318	0.25766982	-	0.258
6899.612	0.239462	0.257882	0.15707718	-	0.258
4999.236	0.186611	0.242893	0.25806016	-	0.258
1850.218	0.218509	0.258064	0.09896736	-	0.258
401.493	0.258088	0.247684	0.18894153	-	0.258
112.7335	0.258105	0.244199	0.08649603	-	0.258
10988.3	0.183609	0.258446	0.23670915	-	0.258
60.5202	0.13097	0.258186	0.25847073	-	0.258
6995.273	0.184471	0.258585	0.22783606	-	0.259
5551.956	0.258637	0.257344	0.21268533	-	0.259
1717.494	0.214956	0.218648	0.25908919	-	0.259
3279.992	0.128966	0.259396	0.1082245	-	0.259
7333.68	0.259615	0.221005	0.16668405	-	0.260
265.6395	0.195642	0.259669	0.06101163	-	0.260
28371.13	0.259694	0.211413	0.21321634	-	0.260
90.9155	0.055391	0.057947	0.25975439	-	0.260

263.4687	0.259766	0.236366	0.24473533	-	0.260
2248.001	0.259833	0.223341	0.19293471	+	0.260
377.9869	0.257801	0.259886	0.1657949	-	0.260
1406.084	0.158107	0.259896	0.09373092	-	0.260
4115.085	0.260073	0.19689	0.10080015	-	0.260
2907.822	0.151601	0.260196	0.05181731	+	0.260
414.0178	0.186796	0.26024	0.22051298	-	0.260
2331.344	0.234372	0.198444	0.26028919	-	0.260
301.9995	0.231606	0.26062	0.16357014	-	0.261
739.0135	0.253004	0.260746	0.07682471	-	0.261
22534.82	0.260893	0.221142	0.24275144	-	0.261
1219.305	0.173575	0.260988	0.20858375	-	0.261
209.2811	0.261158	0.259135	0.13325331	-	0.261
63.5362	0.142713	0.12176	0.26123218	-	0.261
667.8688	0.2309	0.261448	0.23857904	-	0.261
136.4255	0.124001	0.251937	0.26153175	-	0.262
1271.08	0.259423	0.221961	0.26153793	-	0.262
188.1795	0.261682	0.235475	0.13989356	-	0.262
799.7115	0.261696	0.206066	0.10292399	-	0.262
9346.783	0.261892	0.242434	0.03806576	-	0.262
9389.963	0.16865	0.261897	0.03923439	-	0.262
394.0055	0.176529	0.262075	0.05392793	-	0.262
4667.909	0.248041	0.26216	0.10702099	-	0.262
380.3855	0.183782	0.128141	0.26231258	-	0.262
376.3011	0.247197	0.262391	0.23008569	-	0.262
1704.659	0.182357	0.262669	0.19892273	-	0.263
945.0315	0.262732	0.223305	0.11796168	-	0.263
3292.109	0.235156	0.262801	0.21908983	-	0.263
870.2246	0.262915	0.239346	0.06497748	-	0.263
1056.07	0.262991	0.242825	0.01523025	-	0.263
3186.242	0.248933	0.20995	0.26310105	-	0.263
2489.477	0.060079	0.263113	0.06709394	-	0.263
796.2015	0.263153	0.219733	0.16788238	-	0.263
3141.944	0.263157	0.249661	0.20245988	-	0.263
1126.545	0.226097	0.1912	0.2631989	-	0.263
2556.38	0.252229	0.210459	0.26320094	-	0.263
483.3248	0.263221	0.223708	0.11828257	-	0.263
3132.462	0.243519	0.263283	0.0727388	-	0.263
416.5892	0.26346	0.231732	0.17049314	-	0.263
6486.377	0.263532	0.226565	0.23682365	-	0.264
3870.55	0.052532	0.263654	0.08463333	-	0.264
5104.762	0.21958	0.243788	0.26370974	-	0.264
1898.6	0.210869	0.263739	0.03859029	-	0.264
1801.976	0.263864	0.171291	0.1247825	-	0.264
23219.83	0.263905	0.255805	0.25821148	-	0.264
691.2715	0.15244	0.264131	0.09327348	-	0.264
3488.932	0.264159	0.242664	0.11703555	-	0.264
219.0361	0.057622	0.071424	0.26425781	-	0.264
5567.74	0.242395	0.264329	0.05828277	-	0.264
35.9989	0.23296	0.255196	0.26448864	-	0.264
27144.57	0.261778	0.264542	0.10332437	+	0.265
265.8468	0.26459	0.226179	0.21973595	-	0.265
4301.876	0.253285	0.264657	0.03645447	-	0.265



800.1351	0.246928	0.264873	0.2569816	-	0.265
1896.09	0.264976	0.229447	0.25482936	-	0.265
716.0195	0.251587	0.26499	0.25555603	-	0.265
923.3697	0.182048	0.265299	0.16388181	-	0.265
4785.408	0.195609	0.241176	0.26539339	-	0.265
2807.906	0.265501	0.231664	0.20954959	+	0.266
1916.238	0.238831	0.265753	0.08287463	-	0.266
970.9235	0.24605	0.264472	0.26588264	-	0.266
7249.118	0.205157	0.265988	0.14510429	-	0.266
1130.486	0.205261	0.200833	0.26614885	-	0.266
78.6525	0.240318	0.134848	0.26615174	-	0.266
297.0995	0.266167	0.22841	0.19735375	-	0.266
171.1893	0.179457	0.124167	0.26617201	-	0.266
9823.446	0.266231	0.23885	0.14869914	-	0.266
2323.802	0.167197	0.266332	0.11511181	-	0.266
4289.542	0.266335	0.187034	0.06559664	-	0.266
1857	0.22285	0.266353	0.07629054	-	0.266
5087.733	0.180823	0.266385	0.12955839	-	0.266
140.7715	0.266413	0.229179	0.10185371	+	0.266
10379.4	0.266524	0.251692	0.2074658	-	0.267
899.6941	0.266865	0.24894	0.22188375	-	0.267
254.7108	0.234706	0.183188	0.26686619	-	0.267
2718.891	0.1611	0.267029	0.06305994	+	0.267
226.0083	0.267048	0.234862	0.2623063	-	0.267
518.9655	0.266472	0.267626	0.25332223	+	0.268
234.9697	0.267826	0.18497	0.04960852	-	0.268
790.2355	0.268009	0.235303	0.10423918	-	0.268
3849.962	0.268451	0.267933	0.00597777	+	0.268
3375.46	0.141844	0.268628	0.10934731	-	0.269
15008.11	0.268734	0.233274	0.18079254	-	0.269
5465.688	0.218642	0.268793	0.23180569	-	0.269
2043.753	0.206759	0.268834	0.25724488	-	0.269
194.3055	0.269453	0.211839	0.0888436	-	0.269
3731.872	0.257068	0.269549	0.21439175	-	0.270
1782.147	0.269697	0.18679	0.10184876	-	0.270
218.2424	0.269702	0.258002	0.18645781	-	0.270
141.2543	0.269974	0.201225	0.13931399	-	0.270
2043.238	0.269983	0.176104	0.08040504	-	0.270
825.7575	0.201484	0.270428	0.08866853	-	0.270
3894.986	0.162044	0.27048	0.02286106	-	0.270
945.641	0.224283	0.270521	0.13795288	-	0.271
2346.894	0.260026	0.270583	0.11902607	-	0.271
469.4885	0.119961	0.270672	0.14247804	-	0.271
4074.547	0.125315	0.270876	0.12896931	-	0.271
5716.518	0.266495	0.271368	0.19746373	-	0.271
17850.59	0.210702	0.271591	0.23429335	-	0.272
2156.679	0.218562	0.189793	0.27170545	-	0.272
6897.863	0.271751	0.16449	0.05329442	-	0.272
163.0913	0.272064	0.19391	0.11972374	-	0.272
2370.172	0.27214	0.246504	0.13998394	+	0.272
2887.537	0.219109	0.272334	0.02140558	-	0.272
523.7875	0.272351	0.202788	0.05090633	+	0.272
23553.53	0.272373	0.236905	0.02562526	-	0.272

64.954	0.132592	0.132208	0.27253595	-	0.273
4949.982	0.179287	0.130544	0.27256173	-	0.273
1762.856	0.087503	0.272762	0.01271783	-	0.273
5191.772	0.272799	0.251207	0.02976818	-	0.273
6305.436	0.196156	0.273026	0.2180372	-	0.273
456.0523	0.273033	0.255326	0.03614695	-	0.273
3833.552	0.109608	0.134501	0.27303431	-	0.273
120.5379	0.227415	0.273351	0.09074573	-	0.273
14801.71	0.168889	0.244306	0.27357999	-	0.274
92.0048	0.27364	0.230523	0.22314379	-	0.274
960.0906	0.232631	0.110844	0.27369032	-	0.274
255.217	0.205503	0.273991	0.09232966	-	0.274
6991.754	0.247996	0.274046	0.16660753	-	0.274
518.0215	0.226318	0.274135	0.17500335	-	0.274
5755.204	0.274188	0.205167	0.25209178	-	0.274
6521.84	0.243067	0.147813	0.27420698	-	0.274
5640.767	0.274286	0.251536	0.06022812	-	0.274
177.0549	0.274745	0.24977	0.20893915	-	0.275
115.6403	0.274764	0.251206	0.10583508	-	0.275
1937.292	0.275037	0.265772	0.08013533	-	0.275
37.355	0.017403	0.035266	0.27522688	-	0.275
7474.917	0.189761	0.167952	0.27531392	-	0.275
1814.818	0.134402	0.275352	0.14380366	-	0.275
463.3795	0.249528	0.275553	0.0560001	-	0.276
171.4615	0.26531	0.275638	0.23841387	-	0.276
585.6816	0.235846	0.275658	0.16553995	-	0.276
41.7575	0.092812	0.15138	0.27577561	-	0.276
2479.447	0.221046	0.193174	0.27586858	+	0.276
4650.189	0.275936	0.245952	0.07935143	-	0.276
13296.61	0.275949	0.274293	0.08466001	-	0.276
2052.115	0.276036	0.236049	0.23107644	-	0.276
150.2115	0.276231	0.250774	0.22122474	-	0.276
1943.584	0.276309	0.23788	0.26394922	-	0.276
2124.525	0.276513	0.226456	0.07113497	-	0.277
1325.143	0.276558	0.241963	0.16437439	-	0.277
104.6175	0.249877	0.193705	0.27657992	-	0.277
4087.616	0.258695	0.276639	0.1149262	-	0.277
498.6455	0.143556	0.115893	0.27675272	-	0.277
2519.028	0.103915	0.109986	0.27681889	-	0.277
7267.082	0.172597	0.204251	0.27686403	-	0.277
11447.53	0.276944	0.249977	0.20446461	-	0.277
2415.214	0.272966	0.276979	0.22674908	-	0.277
1747.009	0.27699	0.221667	0.20274645	-	0.277
3692.95	0.247688	0.277244	0.16384124	-	0.277
428.9327	0.208579	0.277597	0.14881892	-	0.278
1287.015	0.165246	0.277643	0.14231096	+	0.278
200.9615	0.269538	0.277744	0.16961856	-	0.278
1980.979	0.215356	0.277863	0.09059332	-	0.278
872.4415	0.277997	0.231098	0.18909371	-	0.278
2532.78	0.080269	0.27804	0.02079474	-	0.278
8363.743	0.278123	0.261878	0.17157631	-	0.278
6196.908	0.2739	0.278182	0.26197444	-	0.278
2941.068	0.278324	0.260484	0.06561478	-	0.278

1154.856	0.230359	0.278529	0.25619959	-	0.279
965.4975	0.1482	0.278557	0.07236435	-	0.279
8265.871	0.273415	0.259473	0.27864855	-	0.279
145.7194	0.278693	0.245343	0.15792063	-	0.279
49.9221	0.216293	0.187784	0.27876031	+	0.279
9118.952	0.236748	0.279014	0.17547097	-	0.279
414.4015	0.279015	0.259521	0.15153589	-	0.279
7028.726	0.279084	0.254293	0.20307344	-	0.279
2179.093	0.279113	0.230567	0.24106433	-	0.279
3761.792	0.279178	0.275985	0.14942165	-	0.279
791.5735	0.264756	0.270028	0.27921539	-	0.279
7343.76	0.197194	0.279467	0.18519527	-	0.279
294.9513	0.193176	0.279476	0.14955418	-	0.279
5359.544	0.241794	0.279725	0.00183398	-	0.280
1037.963	0.251505	0.279735	0.0977834	+	0.280
362.5489	0.207617	0.279905	0.08275711	-	0.280
7042.922	0.269954	0.280035	0.04469729	-	0.280
1397.639	0.152309	0.280164	0.14671564	-	0.280
136.8755	0.267101	0.280346	0.20636491	-	0.280
3601.315	0.156415	0.280373	0.05471086	-	0.280
4022.363	0.28105	0.225598	0.25668837	-	0.281
5238.486	0.281264	0.224726	0.26728135	-	0.281
1482.686	0.281384	0.261236	0.07570009	-	0.281
113.6405	0.281473	0.076274	0.1417382	-	0.281
1321.574	0.281614	0.255334	0.26740117	-	0.282
2997.554	0.281682	0.166684	0.011648	-	0.282
1453.834	0.281694	0.256078	0.18401934	-	0.282
572.8155	0.282119	0.227119	0.16294671	-	0.282
3435.334	0.239051	0.282468	0.04873224	-	0.282
1302.151	0.146501	0.282529	0.21598226	-	0.283
74.2764	0.208231	0.165481	0.28275603	-	0.283
181.985	0.283	0.193151	0.16148089	-	0.283
459.3237	0.283018	0.25329	0.04816952	-	0.283
1709.665	0.251079	0.203072	0.28314049	-	0.283
3082.914	0.283158	0.251843	0.24218952	-	0.283
370.6715	0.283305	0.203969	0.26935845	-	0.283
1050.9	0.25806	0.28334	0.09168098	-	0.283
732.1895	0.265293	0.283364	0.25880404	+	0.283
234.0008	0.283379	0.247385	0.19083653	-	0.283
124.4395	0.259534	0.283498	0.10860619	-	0.283
1440.362	0.284044	0.259967	0.00837262	-	0.284
420.6562	0.227821	0.284402	0.13852405	-	0.284
200.7295	0.050663	0.2847	0.14683841	-	0.285
141.2875	0.284964	0.14339	0.28408458	-	0.285
15538.14	0.285158	0.234524	0.01206435	-	0.285
115.1335	0.279209	0.285467	0.10744657	-	0.285
357.4175	0.226747	0.285547	0.11437269	-	0.286
524.3055	0.250226	0.272156	0.28566113	-	0.286
993.2975	0.285752	0.21411	0.16451013	-	0.286
5764.738	0.28598	0.180671	0.06829478	-	0.286
381.6255	0.286012	0.24844	0.18279072	-	0.286
1827.037	0.27088	0.286062	0.17184262	-	0.286
13904.98	0.238242	0.28612	0.13123329	-	0.286

846.4705	0.286171	0.271818	0.12757326	-	0.286
7425.219	0.27994	0.286202	0.15942712	-	0.286
2842.663	0.205548	0.286226	0.20427093	-	0.286
126.7114	0.286243	0.210236	0.1990405	-	0.286
1500	0.148944	0.135758	0.28624508	-	0.286
450.9867	0.208263	0.261687	0.2865885	-	0.287
475.1146	0.241422	0.286724	0.23422349	-	0.287
1194.874	0.283846	0.287382	0.22319551	-	0.287
262.3815	0.263661	0.287711	0.08361489	-	0.288
197.6255	0.150869	0.287861	0.15609372	-	0.288
198.0989	0.287903	0.229596	0.19718535	-	0.288
24.6801	0.056848	0.061326	0.28790402	-	0.288
360.0961	0.213906	0.287968	0.10593228	-	0.288
586.368	0.213287	0.288038	0.05795934	-	0.288
94.7608	0.288075	0.256445	0.18819596	-	0.288
6417.274	0.17142	0.15833	0.28810313	-	0.288
925.1635	0.235901	0.174821	0.28811934	-	0.288
15203.96	0.28824	0.232896	0.16635	-	0.288
1995.196	0.288274	0.254467	0.05058502	-	0.288
9437.636	0.288319	0.266231	0.08334875	-	0.288
56.0775	0.288364	0.230178	0.26076769	-	0.288
2209.134	0.288621	0.233316	0.13891451	-	0.289
881.3735	0.261346	0.288827	0.08670501	-	0.289
51.141	0.160307	0.191117	0.28899122	-	0.289
213.8775	0.230137	0.289173	0.25259974	-	0.289
229.9155	0.230995	0.28945	0.1432548	-	0.289
850.5505	0.289667	0.278438	0.05853868	-	0.290
630.7491	0.226934	0.289788	0.20103001	-	0.290
1674.941	0.197545	0.290061	0.16907192	-	0.290
143.1475	0.273213	0.162077	0.29016225	-	0.290
5480.716	0.197136	0.290376	0.20197963	-	0.290
5073.118	0.20507	0.200372	0.29047294	-	0.290
377.2155	0.062637	0.290583	0.28269119	-	0.291
6417.791	0.132998	0.290762	0.19448773	-	0.291
6533.58	0.290887	0.28246	0.05021194	-	0.291
653.7629	0.190029	0.290979	0.02776695	-	0.291
6898.227	0.258544	0.291222	0.05797135	-	0.291
1240.662	0.14103	0.291299	0.25242461	-	0.291
55.6437	0.291406	0.198712	0.20467187	-	0.291
38.4523	0.291466	0.275218	0.2269149	-	0.291
1619.008	0.291467	0.244742	0.12131846	-	0.291
1308.593	0.291492	0.284676	0.04332357	-	0.291
385.4655	0.241714	0.230479	0.29168862	-	0.292
260.5875	0.291704	0.243743	0.13231755	-	0.292
1444.158	0.291819	0.237683	0.10467002	-	0.292
1020.872	0.287466	0.29182	0.17164295	-	0.292
1078.41	0.186787	0.135855	0.2918408	-	0.292
860.7795	0.082583	0.291996	0.12210502	-	0.292
4909.974	0.25757	0.292028	0.18366279	-	0.292
591.6555	0.0629	0.059256	0.29213875	-	0.292
235.2575	0.292528	0.198937	0.14226582	-	0.293
1797.946	0.259072	0.292643	0.03324083	-	0.293
7821.253	0.292774	0.27195	0.20623084	-	0.293



1285.038	0.187076	0.134464	0.29279107	-	0.293
1605.228	0.255466	0.292997	0.14042277	-	0.293
3523.598	0.293396	0.256404	0.18091155	-	0.293
2465.305	0.293406	0.219809	0.25268675	-	0.293
4517.96	0.280918	0.293809	0.14384491	-	0.294
10127.45	0.280824	0.294094	0.153424	-	0.294
56.0481	0.14184	0.294198	0.24886125	-	0.294
815.144	0.239139	0.294237	0.09325162	-	0.294
1627.505	0.256618	0.294282	0.21350218	-	0.294
677.3925	0.294331	0.269171	0.22114727	-	0.294
41.5202	0.23791	0.108449	0.29450725	-	0.295
209.9835	0.294533	0.234295	0.22685259	-	0.295
160.5686	0.24056	0.294572	0.07097776	-	0.295
877.8682	0.27221	0.289163	0.29462635	+	0.295
1060.887	0.284111	0.294697	0.15694022	-	0.295
13015.35	0.113019	0.295468	0.16972331	-	0.295
427.4515	0.188788	0.295489	0.22669964	-	0.295
4683.496	0.227505	0.295524	0.18416875	-	0.296
2271.765	0.295638	0.275355	0.29252327	-	0.296
3739.482	0.295684	0.26725	0.07578447	-	0.296
2131.102	0.295757	0.237428	0.159272	-	0.296
1516.949	0.153993	0.29579	0.28836543	-	0.296
8089.735	0.278654	0.295849	0.25986038	-	0.296
857.9175	0.228716	0.295919	0.0461394	-	0.296
9955.392	0.210114	0.295985	0.02101329	-	0.296
5104.374	0.217956	0.296108	0.28836161	-	0.296
17142.47	0.280403	0.296152	0.06470525	-	0.296
2173.966	0.296279	0.255628	0.22847938	-	0.296
4604.561	0.18777	0.296336	0.25083078	-	0.296
655.4362	0.296415	0.278068	0.07709858	-	0.296
3821.076	0.296537	0.285552	0.05346806	-	0.297
1021.346	0.263351	0.296648	0.0513924	-	0.297
1357.01	0.297255	0.281245	0.24760718	-	0.297
2898.437	0.297446	0.260951	0.22434693	-	0.297
4033.758	0.179804	0.297447	0.04984016	-	0.297
146.8715	0.29753	0.295063	0.16713113	-	0.298
836.7784	0.215121	0.198354	0.29756205	-	0.298
10110.53	0.297764	0.259997	0.12874103	-	0.298
3441.276	0.133049	0.297949	0.2154874	-	0.298
53.3822	0.164321	0.141324	0.29814433	-	0.298
4562.126	0.263302	0.298249	0.19798261	-	0.298
1854.54	0.182977	0.298504	0.16146299	-	0.299
2882.736	0.276198	0.298575	0.17184771	-	0.299
208.7618	0.274359	0.298672	0.12888756	-	0.299
1825.066	0.271751	0.298777	0.2110241	-	0.299
1599.503	0.261284	0.221679	0.29885256	-	0.299
97.2349	0.21402	0.242452	0.29896056	-	0.299
2257.194	0.285721	0.298971	0.09097204	-	0.299
403.6075	0.298994	0.26743	0.14264403	-	0.299
95.8435	0.214524	0.144628	0.29905001	+	0.299
215.6855	0.189781	0.223797	0.2992139	-	0.299
4592.02	0.299493	0.260872	0.08326826	-	0.299
425.9575	0.275077	0.247554	0.29950547	+	0.300

1166.124	0.175112	0.299678	0.04515748	-	0.300
82.845	0.300059	0.26375	0.23951114	-	0.300
275.5655	0.300108	0.259414	0.19125398	-	0.300
88.6995	0.30028	0.205707	0.22029887	-	0.300
885.4275	0.29555	0.300291	0.27388634	-	0.300
5088.206	0.028746	0.30053	0.03344028	-	0.301
2708.361	0.231651	0.300545	0.15581954	-	0.301
132.9305	0.300676	0.197257	0.08262363	-	0.301
18072.67	0.300755	0.265437	0.21862612	-	0.301
2720.444	0.160267	0.147672	0.30113442	-	0.301
833.0535	0.060189	0.065928	0.30119266	-	0.301
5142.911	0.261495	0.288257	0.3012352	-	0.301
966.6313	0.301359	0.249493	0.22054686	-	0.301
2438.358	0.294378	0.301401	0.21731165	-	0.301
401.2603	0.068938	0.301421	0.24955048	-	0.301
68.4657	0.287107	0.301528	0.26032013	-	0.302
7420.516	0.301551	0.28033	0.16055535	-	0.302
641.7343	0.058261	0.089373	0.30160068	-	0.302
2754.713	0.28466	0.301648	0.12567013	-	0.302
2858.922	0.301862	0.215295	0.1480828	-	0.302
2569.791	0.255319	0.214413	0.30188069	-	0.302
188.9364	0.157429	0.3019	0.07350728	-	0.302
61.2527	0.241259	0.292167	0.30194261	-	0.302
3140.096	0.302198	0.190102	0.03431663	-	0.302
654.0742	0.24492	0.181611	0.30253418	-	0.303
83.3335	0.050347	0.156553	0.30258059	-	0.303
1061.32	0.22464	0.223789	0.30265541	-	0.303
862.655	0.263295	0.302754	0.17518243	-	0.303
122.9565	0.302798	0.220299	0.24607564	-	0.303
1665.832	0.286953	0.303091	0.11720482	+	0.303
613.7471	0.272701	0.303106	0.24393239	-	0.303
234.4445	0.303111	0.262089	0.0410498	-	0.303
2547.144	0.195972	0.303339	0.26296339	-	0.303
282.9455	0.280148	0.303448	0.12910048	-	0.303
13157.82	0.303456	0.29844	0.14248265	-	0.303
1082.735	0.303474	0.266791	0.06332456	-	0.303
772.6274	0.270158	0.303502	0.03464011	-	0.304
73.8135	0.303573	0.143564	0.22884567	-	0.304
7265.312	0.303728	0.270824	0.17845367	-	0.304
226.0154	0.159463	0.198846	0.30376558	-	0.304
1484.401	0.174512	0.303829	0.1894657	-	0.304
2206.714	0.209523	0.303997	0.02464162	-	0.304
32.9605	0.292674	0.304057	0.21537598	-	0.304
142.3156	0.275474	0.30412	0.20743966	-	0.304
99.8275	0.304438	0.136248	0.15573564	-	0.304
192.3335	0.304446	0.281023	0.23810673	-	0.304
949.2157	0.205433	0.304551	0.13701153	-	0.305
3805.312	0.294641	0.304571	0.20203166	-	0.305
89.4755	0.138914	0.266679	0.30463423	-	0.305
32.2324	0.097087	0.30464	0.25925466	-	0.305
2531.574	0.304753	0.223214	0.17394614	-	0.305
919.1795	0.30513	0.282648	0.09777122	-	0.305
553.8235	0.296082	0.305217	0.11328573	+	0.305

145.5828	0.232616	0.305249	0.07736216	-	0.305
8224.866	0.20536	0.30533	0.03214601	-	0.305
971.6895	0.213524	0.143719	0.30553484	-	0.306
5654.876	0.177754	0.305668	0.1554529	-	0.306
9944.146	0.185999	0.266274	0.30576192	-	0.306
2327.444	0.302418	0.305868	0.09113588	-	0.306
918.8788	0.192752	0.192797	0.30599629	-	0.306
6166.612	0.193627	0.306216	0.18675302	-	0.306
8524.114	0.306311	0.230942	0.24991942	-	0.306
2146.932	0.302689	0.306398	0.11041875	-	0.306
4517.846	0.306515	0.286982	0.1311823	-	0.307
4589.282	0.287288	0.306914	0.06517044	-	0.307
2426.46	0.245634	0.215424	0.30696556	-	0.307
4126.139	0.220674	0.292983	0.30713171	-	0.307
1772.95	0.25874	0.307213	0.18840661	-	0.307
6005.418	0.307421	0.285603	0.06622944	-	0.307
5257.508	0.307431	0.266226	0.07302424	-	0.307
28065.42	0.307444	0.238345	0.22967785	+	0.307
249.0024	0.30748	0.267967	0.15515834	-	0.307
2452.372	0.30767	0.258675	0.10317583	+	0.308
1864.722	0.297481	0.297075	0.30769489	-	0.308
684.3095	0.307792	0.305963	0.16001751	-	0.308
885.1185	0.307931	0.269272	0.30362206	-	0.308
5001.038	0.289343	0.308051	0.16497847	-	0.308
65.5819	0.278904	0.308187	0.12652271	-	0.308
1835.082	0.308273	0.202611	0.05321137	-	0.308
20.8596	0.308494	0.188303	0.24628948	-	0.308
999.2987	0.233957	0.308649	0.19433999	-	0.309
25.9472	0.308796	0.189182	0.24828112	-	0.309
402.5887	0.30884	0.296261	0.24110836	-	0.309
10153.34	0.308916	0.259376	0.25441267	-	0.309
2700.175	0.309158	0.300868	0.14025335	-	0.309
252.0035	0.296575	0.309445	0.209184	-	0.309
1412.113	0.309568	0.200489	0.19965976	-	0.310
145.8895	0.115558	0.111861	0.30958431	-	0.310
74.559	0.281394	0.309625	0.14519776	-	0.310
177.2075	0.309828	0.243804	0.10362259	-	0.310
28.3174	0.30999	0.162373	0.22391533	-	0.310
13075.39	0.310058	0.246833	0.05938725	-	0.310
71.2036	0.310383	0.287731	0.25974529	-	0.310
1191.394	0.129645	0.269709	0.31078549	-	0.311
373.3295	0.269403	0.310846	0.25073159	-	0.311
2914.978	0.310873	0.283817	0.21576685	-	0.311
447.5222	0.310966	0.246629	0.07998061	-	0.311
7827.604	0.311051	0.266203	0.1448688	-	0.311
922.7135	0.27199	0.311054	0.05733177	-	0.311
319.6675	0.311127	0.15697	0.17394856	-	0.311
133.8115	0.311159	0.158062	0.27435833	-	0.311
109.6795	0.233776	0.311411	0.15257637	-	0.311
380.5935	0.311416	0.14372	0.03787584	-	0.311
97.6335	0.310613	0.311435	0.21810444	-	0.311
16500.23	0.301794	0.311508	0.14155689	-	0.312
1137.317	0.180917	0.187975	0.3119254	-	0.312

144.613	0.311713	0.224879	0.31194568	-	0.312
452.8028	0.311959	0.266308	0.20401707	-	0.312
4104.429	0.306749	0.312183	0.15424106	-	0.312
3322.936	0.302362	0.312199	0.15814071	-	0.312
8079.563	0.259617	0.312202	0.10126627	-	0.312
20574.42	0.312486	0.267782	0.01173116	-	0.312
2328.93	0.181938	0.312627	0.1263076	-	0.313
189.7555	0.312901	0.21322	0.05626082	-	0.313
8137.277	0.258909	0.250931	0.31292353	-	0.313
377.8675	0.230936	0.312963	0.11278742	-	0.313
954.401	0.193801	0.181388	0.31312153	-	0.313
9146.302	0.313136	0.289012	0.18092488	-	0.313
124.2108	0.293744	0.313182	0.27191275	+	0.313
1990.798	0.313365	0.255648	0.28479208	-	0.313
2674.562	0.313628	0.20004	0.17767978	-	0.314
982.6815	0.300449	0.313692	0.16111171	-	0.314
3983.088	0.294271	0.313725	0.20585275	-	0.314
212.9495	0.313935	0.278056	0.17742798	-	0.314
301.9778	0.313963	0.286122	0.23734394	-	0.314
35.9868	0.170991	0.313999	0.23766214	-	0.314
62.2224	0.113607	0.24858	0.31404125	-	0.314
2887.534	0.314128	0.279811	0.18148621	-	0.314
3555.53	0.314284	0.280049	0.2521495	+	0.314
11882.5	0.314386	0.268502	0.24480302	-	0.314
676.6912	0.215646	0.314497	0.08304334	-	0.314
7978.702	0.314689	0.280161	0.28093863	-	0.315
169.1996	0.025112	0.085691	0.31474247	-	0.315
307.8325	0.116868	0.241455	0.31483843	-	0.315
26.4086	0.314862	0.284196	0.30669933	-	0.315
3863.539	0.186747	0.314946	0.13057524	-	0.315
34.3718	0.106342	0.180288	0.31496168	-	0.315
2227.414	0.292334	0.315044	0.07664255	-	0.315
45.9191	0.315142	0.294912	0.19419588	-	0.315
196.2483	0.315186	0.24867	0.05708839	-	0.315
110.281	0.174459	0.315234	0.13157661	-	0.315
6010.793	0.315381	0.225386	0.07823285	-	0.315
13120.72	0.315382	0.310015	0.10751492	-	0.315
213.5721	0.199213	0.315447	0.22198452	-	0.315
983.2275	0.311089	0.310022	0.31557244	-	0.316
355.7135	0.189479	0.20688	0.31563463	-	0.316
1614.634	0.303577	0.315687	0.09899677	-	0.316
2678.59	0.261277	0.315767	0.12461938	-	0.316
209.9644	0.29256	0.275037	0.31583688	-	0.316
8142.464	0.315906	0.27801	0.15124802	-	0.316
3427.568	0.315913	0.263885	0.10763479	-	0.316
5247.623	0.315957	0.266224	0.17317698	+	0.316
5043.486	0.282553	0.316052	0.05804995	-	0.316
780.1421	0.316105	0.245357	0.02894165	-	0.316
1423.71	0.133201	0.316407	0.09959862	-	0.316
1133.314	0.316478	0.267318	0.08542517	+	0.316
857.096	0.295256	0.316849	0.10152282	-	0.317
44.7516	0.317118	0.208825	0.27983134	-	0.317
3687.036	0.27322	0.31734	0.22399879	-	0.317



3252.848	0.317365	0.278748	0.06650515	-	0.317
20.5434	0.015148	0.027978	0.31744989	-	0.317
2151.01	0.284934	0.317591	0.21258274	-	0.318
4246.004	0.317734	0.313227	0.26513202	-	0.318
319.3278	0.315462	0.317765	0.28290615	-	0.318
387.9779	0.041521	0.044505	0.31785702	-	0.318
5669.186	0.317896	0.291837	0.2481544	-	0.318
1522.238	0.149659	0.318391	0.20171298	-	0.318
13165.16	0.31864	0.316578	0.2788137	-	0.319
2136.615	0.313207	0.305931	0.31885178	-	0.319
5165.165	0.273378	0.318989	0.15165369	-	0.319
2315.562	0.319066	0.212701	0.18243566	-	0.319
35.6849	0.086036	0.129276	0.31909295	-	0.319
9928.686	0.179847	0.319162	0.00144464	-	0.319
315.8115	0.259832	0.319169	0.1094311	-	0.319
1413.547	0.272975	0.319371	0.23693623	-	0.319
221.7088	0.319564	0.254107	0.22397622	-	0.320
3779.582	0.320596	0.296551	0.166658	-	0.321
4106.534	0.279442	0.291554	0.32062407	-	0.321
8949.407	0.234884	0.320724	0.26109279	-	0.321
1853.424	0.320802	0.218722	0.21018218	-	0.321
258.3415	0.30635	0.320927	0.16206959	-	0.321
2351.036	0.312365	0.320933	0.07534569	-	0.321
659.5043	0.30774	0.321398	0.05290458	-	0.321
2641.698	0.281271	0.321429	0.17028509	-	0.321
514.0371	0.275682	0.322072	0.16295225	-	0.322
676.955	0.322325	0.265244	0.17186165	-	0.322
834.8955	0.271067	0.322327	0.22949758	-	0.322
1807.122	0.322572	0.278767	0.14934331	-	0.323
5749.506	0.290907	0.3227	0.10006661	-	0.323
573.6755	0.208675	0.322933	0.14986974	-	0.323
638.7473	0.322961	0.322678	0.23250681	-	0.323
43.365	0.196011	0.170598	0.32309005	-	0.323
106.0092	0.021583	0.323174	0.19174845	-	0.323
921.4815	0.323258	0.308227	0.13246354	-	0.323
107.4975	0.284389	0.323374	0.22861555	-	0.323
17955.91	0.197861	0.178478	0.32365692	-	0.324
5171.23	0.323666	0.277401	0.12851402	-	0.324
771.935	0.202581	0.189738	0.32384268	-	0.324
176.8975	0.323994	0.221569	0.07597959	-	0.324
4143.104	0.324214	0.283	0.0842208	-	0.324
946.7415	0.324226	0.257064	0.25819455	-	0.324
4249.166	0.324249	0.217107	0.26850402	-	0.324
10006.27	0.324344	0.310722	0.1322271	-	0.324
297.5955	0.279968	0.324527	0.29548666	-	0.325
180.0946	0.324541	0.284081	0.15962167	-	0.325
853.2035	0.324555	0.294967	0.07830418	-	0.325
719.2548	0.324614	0.314752	0.20476346	-	0.325
84.6795	0.32485	0.318158	0.16998447	-	0.325
1079.331	0.201477	0.324874	0.15810206	-	0.325
2787.922	0.324998	0.301365	0.31895859	-	0.325
3781.122	0.325033	0.276148	0.16006225	-	0.325
62.5204	0.2422	0.325076	0.26539498	-	0.325

1597.547	0.146306	0.136969	0.32526204	-	0.325
790.1057	0.265206	0.244932	0.3253204	-	0.325
799.3095	0.325407	0.307189	0.13095165	-	0.325
1921.138	0.287046	0.325458	0.14765939	-	0.325
114.3833	0.2706	0.325986	0.18537759	-	0.326
199.0315	0.302333	0.325996	0.28817549	-	0.326
181.7215	0.326037	0.293797	0.12569454	-	0.326
95.6576	0.297585	0.326103	0.19593425	-	0.326
468.4475	0.301957	0.185531	0.32630231	-	0.326
2304.35	0.32644	0.322878	0.15253133	-	0.326
8783.137	0.224927	0.272273	0.32671902	-	0.327
7315.002	0.326738	0.286558	0.0988144	-	0.327
5186.298	0.244558	0.326798	0.10320069	-	0.327
294.7921	0.326798	0.272239	0.16486398	-	0.327
3721.64	0.327094	0.314832	0.23508389	-	0.327
2117.74	0.327279	0.271979	0.13084423	-	0.327
2398.439	0.327294	0.291911	0.07235376	-	0.327
617.9782	0.327558	0.295516	0.13867075	-	0.328
12574.4	0.327614	0.313161	0.11616431	-	0.328
1041.672	0.32791	0.326452	0.11442523	-	0.328
1298.242	0.270443	0.328019	0.24177898	-	0.328
458.4635	0.150926	0.328027	0.01233664	-	0.328
6523.96	0.32808	0.276915	0.17579501	-	0.328
643.5637	0.154418	0.328252	0.17761086	-	0.328
719.7255	0.328262	0.253887	0.07275496	-	0.328
3577.734	0.294976	0.328366	0.25837573	-	0.328
1235.975	0.218837	0.192901	0.32856447	-	0.329
951.2115	0.328688	0.315719	0.17834677	-	0.329
46.7494	0.290078	0.232756	0.32869299	-	0.329
2893.862	0.275374	0.329178	0.15565894	-	0.329
195.7455	0.329309	0.159776	0.05492182	-	0.329
1585.606	0.274646	0.32939	0.07881879	-	0.329
1073.078	0.273482	0.329672	0.16860418	-	0.330
568.4695	0.22274	0.329674	0.31944282	-	0.330
3568.394	0.242831	0.329796	0.06728779	-	0.330
1505.158	0.300585	0.329831	0.24185522	-	0.330
4096.296	0.329954	0.314033	0.20861955	-	0.330
1310.846	0.293238	0.330029	0.05905616	-	0.330
219.9695	0.330161	0.324556	0.10989205	-	0.330
7174.606	0.330277	0.264598	0.05323463	-	0.330
4254.896	0.33041	0.238013	0.28423295	-	0.330
963.4013	0.130735	0.156696	0.33044952	-	0.330
325.2515	0.330468	0.2551	0.17510573	-	0.330
3682.91	0.208764	0.205287	0.33048745	+	0.330
17352.94	0.330564	0.303581	0.14982955	-	0.331
385.2835	0.299253	0.330665	0.17821059	-	0.331
319.5635	0.330799	0.267175	0.04073306	-	0.331
20552.83	0.329211	0.330804	0.02741002	-	0.331
3987.268	0.279323	0.330817	0.13022011	-	0.331
3319.734	0.234485	0.330277	0.33097853	-	0.331
4043.942	0.25535	0.319737	0.33113716	-	0.331
489.9235	0.331145	0.29856	0.13047915	-	0.331
392.3144	0.277129	0.331231	0.15909281	-	0.331



83.6815	0.293647	0.22772	0.33134922	-	0.331
901.3355	0.331423	0.253422	0.06420273	-	0.331
3485.343	0.252685	0.331515	0.1640588	-	0.332
3878.857	0.331694	0.312633	0.14657451	-	0.332
737.3719	0.331956	0.304816	0.09287267	-	0.332
65.8999	0.259731	0.304042	0.33197319	-	0.332
2369.583	0.33204	0.326041	0.07739315	+	0.332
4347.134	0.326545	0.332095	0.28541509	-	0.332
72.0459	0.290881	0.188813	0.33217435	-	0.332
1353.392	0.263744	0.332178	0.15104499	-	0.332
50.3118	0.253623	0.157331	0.3322958	-	0.332
387.1295	0.332451	0.195165	0.03816475	-	0.332
217.1975	0.273109	0.295299	0.3324716	-	0.332
9722.77	0.332511	0.302029	0.16925954	-	0.333
207.1955	0.332542	0.286391	0.12650323	-	0.333
2317.464	0.186714	0.191877	0.33257288	-	0.333
197.3146	0.332888	0.240685	0.27743816	-	0.333
64.3841	0.333192	0.176269	0.18220958	-	0.333
3086.19	0.33352	0.314553	0.16880413	-	0.334
2072.084	0.333748	0.308858	0.32932336	-	0.334
1390.708	0.333895	0.258421	0.14068817	-	0.334
393.135	0.309343	0.333904	0.33373142	-	0.334
3434.562	0.334069	0.264915	0.15053197	-	0.334
233.3255	0.333639	0.241075	0.33437408	-	0.334
2468.874	0.334423	0.314749	0.10531143	-	0.334
5046.084	0.334516	0.240581	0.17731246	-	0.335
25850.87	0.334623	0.257798	0.01978912	-	0.335
193.2017	0.225335	0.334738	0.09749448	-	0.335
1831.646	0.334841	0.22632	0.2039595	-	0.335
311.6702	0.108496	0.335103	0.05655594	-	0.335
4777.24	0.326311	0.300357	0.33516267	-	0.335
216.6648	0.335371	0.332452	0.11034464	-	0.335
231.2115	0.311202	0.335384	0.22927363	-	0.335
3636.718	0.335418	0.25071	0.29068225	-	0.335
246.1666	0.335455	0.219141	0.05554531	-	0.335
61.7369	0.328624	0.335575	0.32052306	-	0.336
364.8771	0.335615	0.287929	0.25772377	-	0.336
10612.26	0.277122	0.335827	0.18897202	+	0.336
125.7966	0.335875	0.283766	0.11982041	-	0.336
10612.15	0.290596	0.33604	0.22319662	-	0.336
404.9335	0.336116	0.258258	0.24118627	-	0.336
1122.544	0.336277	0.325976	0.20573929	-	0.336
825.2617	0.259922	0.281653	0.3364414	+	0.336
7762.592	0.291652	0.336551	0.2601086	-	0.337
508.7115	0.336676	0.309405	0.08668096	-	0.337
168.5875	0.279894	0.336897	0.32319656	-	0.337
2807.176	0.336927	0.247076	0.1926283	-	0.337
8006.784	0.309983	0.334144	0.33750201	-	0.338
473.3383	0.338754	0.291433	0.19764617	-	0.339
733.0755	0.138603	0.33881	0.07478725	-	0.339
2648.914	0.323438	0.338832	0.30121388	-	0.339
3358.372	0.338864	0.259663	0.02196109	+	0.339
2394.23	0.228251	0.338902	0.33699478	-	0.339

1907.332	0.339101	0.30607	0.15722044	-	0.339
2539.016	0.339217	0.318978	0.31726995	-	0.339
29.7054	0.339222	0.158275	0.28333232	-	0.339
10005.17	0.314077	0.339258	0.1585324	-	0.339
62.3507	0.260678	0.339348	0.29530863	-	0.339
10512.97	0.195683	0.339408	0.28614144	-	0.339
20.6616	0.288798	0.280058	0.33941224	-	0.339
711.7238	0.189604	0.339421	0.30318433	-	0.339
7132.529	0.169675	0.33944	0.0017657	-	0.339
320.1795	0.305983	0.339459	0.31540464	-	0.339
1195.48	0.33946	0.319666	0.13235033	-	0.339
8364.75	0.330815	0.339622	0.21693029	-	0.340
574.0012	0.302406	0.339632	0.11067573	-	0.340
217.2833	0.136234	0.205425	0.3397569	-	0.340
1743.246	0.202606	0.339907	0.16349246	-	0.340
302.5355	0.292104	0.339929	0.08391676	-	0.340
1432.25	0.209407	0.222572	0.33996102	-	0.340
824.9385	0.160968	0.17875	0.3401416	-	0.340
29.8628	0.312158	0.340233	0.21361694	-	0.340
2323.476	0.240845	0.296611	0.34029517	-	0.340
2535.558	0.340377	0.310144	0.08865565	-	0.340
413.6738	0.340455	0.313555	0.1548493	-	0.340
87.0115	0.328129	0.340509	0.2999661	-	0.341
493.8615	0.186787	0.235524	0.3406127	-	0.341
390.6708	0.340852	0.339159	0.09765972	-	0.341
1502.248	0.336798	0.340927	0.17991583	-	0.341
2976.138	0.336188	0.340938	0.33347646	-	0.341
214.7601	0.081353	0.341018	0.30432096	-	0.341
3728.47	0.27441	0.216369	0.34109521	-	0.341
3869.159	0.341171	0.335001	0.111111084	-	0.341
2048.8	0.322028	0.341183	0.10419443	-	0.341
3558.906	0.319973	0.341516	0.04170369	-	0.342
1164.003	0.341591	0.261924	0.30439916	-	0.342
596.5015	0.244515	0.241506	0.34159277	-	0.342
1959.08	0.107491	0.341649	0.01319691	-	0.342
5069.792	0.341693	0.260736	0.01314685	-	0.342
642.3255	0.341733	0.296181	0.12265666	-	0.342
3167.024	0.295047	0.341757	0.20009229	-	0.342
2316.976	0.342019	0.300323	0.08313078	-	0.342
1735.319	0.342297	0.319497	0.09720638	-	0.342
321.3735	0.342577	0.307049	0.20300647	-	0.343
3728.61	0.342635	0.241868	0.15396876	-	0.343
294.2415	0.203622	0.257213	0.34269639	-	0.343
90.4815	0.342719	0.256755	0.16976288	-	0.343
564.874	0.342791	0.201504	0.1742601	-	0.343
2788.705	0.281222	0.178391	0.34280836	-	0.343
146.3319	0.329576	0.342937	0.07908118	-	0.343
3673.701	0.307485	0.294461	0.34330651	-	0.343
92.9535	0.271071	0.343608	0.14742317	-	0.344
194.7199	0.067143	0.344013	0.19727568	-	0.344
15922.87	0.260107	0.344391	0.24011894	-	0.344
1793.091	0.344612	0.251599	0.24679701	-	0.345
72.7256	0.344648	0.288998	0.34178611	-	0.345



635.0536	0.318381	0.344667	0.1344433	+	0.345
3269.612	0.235503	0.344702	0.16266382	-	0.345
1715.688	0.34483	0.25409	0.23168176	-	0.345
2943.182	0.344858	0.334791	0.31245635	-	0.345
154.0035	0.143617	0.158157	0.34513761	-	0.345
5649.914	0.336815	0.345242	0.10406558	-	0.345
254.5897	0.345249	0.253021	0.09294131	-	0.345
8172.389	0.345305	0.301667	0.27937896	-	0.345
81.4775	0.17287	0.34533	0.28629131	-	0.345
137.4625	0.240923	0.267951	0.34537201	-	0.345
2736.052	0.345841	0.327927	0.10749005	-	0.346
782.0437	0.345852	0.225275	0.04468139	-	0.346
275.4859	0.34612	0.282432	0.11782926	+	0.346
2163.504	0.335816	0.346158	0.16480261	-	0.346
503.4529	0.300752	0.346193	0.1312667	-	0.346
17184.82	0.342081	0.346382	0.23927997	-	0.346
83.8339	0.236109	0.321162	0.34650541	-	0.347
138.8195	0.115741	0.16931	0.34674019	-	0.347
3051.486	0.34699	0.341237	0.1973731	-	0.347
28330.5	0.347053	0.331313	0.29763372	-	0.347
30.7741	0.301596	0.347063	0.3194017	-	0.347
56.0634	0.347253	0.276171	0.16894266	-	0.347
2744.668	0.251601	0.285233	0.34743856	-	0.347
864.4415	0.347549	0.338573	0.22055107	+	0.348
250.6615	0.347759	0.277287	0.32658266	-	0.348
391.7815	0.220016	0.252733	0.347764	-	0.348
6580.132	0.348013	0.316146	0.16119381	-	0.348
280.1473	0.16173	0.166958	0.34807939	-	0.348
8616.074	0.348138	0.291426	0.07081155	-	0.348
3655.744	0.333688	0.348722	0.25256627	-	0.349
1948.936	0.348736	0.308771	0.04654962	-	0.349
6054.37	0.250672	0.348777	0.30350004	-	0.349
3095.818	0.321933	0.290418	0.3490232	-	0.349
936.5704	0.349047	0.271683	0.24230159	-	0.349
3350.728	0.219847	0.34914	0.17422231	-	0.349
922.5828	0.288253	0.274472	0.34919251	-	0.349
7050.719	0.183243	0.349207	0.18345101	-	0.349
113.5478	0.349377	0.217877	0.29797935	-	0.349
973.2355	0.3394	0.349495	0.34603362	-	0.349
5743.306	0.349529	0.290031	0.323532	-	0.350
2908.363	0.349694	0.343521	0.16543531	-	0.350
466.8256	0.34971	0.318	0.34115803	-	0.350
3249.788	0.208588	0.349713	0.10461041	-	0.350
315.361	0.349781	0.318271	0.0773003	+	0.350
1487.067	0.190422	0.34995	0.15826311	-	0.350
3684.302	0.305297	0.350036	0.0853387	-	0.350
8714.342	0.350321	0.312554	0.21067587	-	0.350
4488.202	0.350441	0.303877	0.17442388	-	0.350
2195.24	0.35059	0.301344	0.15521651	-	0.351
7977.524	0.350581	0.350642	0.2075621	-	0.351
266.9056	0.302244	0.350646	0.1761488	-	0.351
227.7933	0.263941	0.350792	0.17553106	-	0.351
1199.09	0.286117	0.350842	0.18631595	-	0.351

19.1958	0.271471	0.251106	0.35125392	-	0.351
922.1549	0.316017	0.351388	0.24453538	-	0.351
356.2426	0.351969	0.310387	0.20095575	-	0.352
3235.388	0.352149	0.331487	0.26380837	-	0.352
743.1335	0.352553	0.29082	0.16871464	-	0.353
362.8825	0.266642	0.352674	0.24353806	-	0.353
8510.48	0.353265	0.29002	0.33903368	-	0.353
196.3269	0.17871	0.353285	0.09590178	-	0.353
3312.002	0.353346	0.3396	0.07416376	-	0.353
240.2315	0.353395	0.307938	0.21896046	-	0.353
222.399	0.336533	0.353702	0.21162325	-	0.354
3121.402	0.353847	0.249471	0.17256486	-	0.354
1743.428	0.232458	0.354268	0.11016202	+	0.354
712.5215	0.354293	0.335664	0.14437108	-	0.354
111.6017	0.354321	0.308847	0.34927246	-	0.354
10304.18	0.244287	0.354505	0.23529962	-	0.355
472.6675	0.354597	0.279354	0.26219171	-	0.355
9858.177	0.354603	0.315681	0.31048574	-	0.355
821.6555	0.354662	0.320364	0.09554065	-	0.355
79.8995	0.355007	0.273285	0.13498708	-	0.355
5849.222	0.354734	0.355169	0.30108442	-	0.355
13942.8	0.304461	0.355192	0.01112702	-	0.355
298.0144	0.355218	0.23384	0.14263807	-	0.355
14636.03	0.35523	0.338596	0.24940905	-	0.355
961.6115	0.060309	0.139096	0.35524908	-	0.355
1757.599	0.076915	0.345125	0.35528108	+	0.355
416.942	0.355287	0.325919	0.33228171	-	0.355
49.8768	0.185564	0.199975	0.35550196	-	0.356
209.641	0.355514	0.298668	0.10763543	-	0.356
397.0255	0.355569	0.310614	0.25977047	-	0.356
600.5175	0.35572	0.273254	0.27697911	-	0.356
3931.854	0.242379	0.355898	0.19040015	-	0.356
1144.136	0.311632	0.355933	0.2698548	-	0.356
123.405	0.355992	0.225848	0.30673311	-	0.356
482.4059	0.344764	0.356075	0.20469443	-	0.356
193.2975	0.356091	0.325217	0.06904021	-	0.356
4242.025	0.149987	0.356161	0.26862678	-	0.356
1335.667	0.356236	0.338712	0.19450027	-	0.356
145.0855	0.015409	0.094132	0.35628509	-	0.356
8495.774	0.291841	0.356409	0.03710192	-	0.356
2160.508	0.194217	0.203054	0.35666587	-	0.357
90.3335	0.123816	0.35675	0.32031417	-	0.357
895.5237	0.188138	0.160135	0.35696152	-	0.357
353.531	0.357022	0.354533	0.12978438	-	0.357
3119.03	0.357374	0.343305	0.1988399	-	0.357
15322.11	0.282719	0.269526	0.35752295	-	0.358
777.0115	0.319498	0.357728	0.2089009	-	0.358
732.4808	0.357856	0.344549	0.16168274	-	0.358
13861.82	0.315124	0.357937	0.09673254	-	0.358
9418.611	0.266845	0.357983	0.03812043	-	0.358
126.9355	0.358011	0.346647	0.1214735	-	0.358
32.926	0.358254	0.338759	0.24456357	-	0.358
513.4835	0.358293	0.31253	0.03883669	-	0.358



13074.12	0.114919	0.358461	0.01421629	-	0.358
241.8475	0.136944	0.220925	0.35850484	-	0.359
2216.22	0.35862	0.269896	0.27534966	-	0.359
3171.333	0.339345	0.320368	0.35894987	-	0.359
922.0435	0.18981	0.160173	0.35903458	-	0.359
4281.304	0.263608	0.359106	0.20922119	-	0.359
124.8375	0.188274	0.288221	0.35934074	-	0.359
3074.036	0.3594	0.332743	0.15631098	-	0.359
754.2715	0.27688	0.359581	0.1878256	-	0.360
4249.084	0.359604	0.307275	0.0574951	-	0.360
6360.872	0.343086	0.359725	0.12924072	-	0.360
651.8515	0.296138	0.359842	0.25636437	-	0.360
15068.46	0.199394	0.189807	0.3600053	-	0.360
684.452	0.358451	0.360006	0.23238372	-	0.360
1382.301	0.351346	0.360186	0.09825757	-	0.360
267.8515	0.321131	0.360242	0.33879818	+	0.360
1592.535	0.360249	0.355613	0.17261435	-	0.360
1524.322	0.360261	0.337603	0.33071337	-	0.360
275.4711	0.360308	0.288524	0.25529938	-	0.360
2408.962	0.210805	0.181949	0.36033556	-	0.360
33.3392	0.157566	0.1693	0.36059354	+	0.361
3761.5	0.360602	0.247944	0.24065812	-	0.361
18246.69	0.360676	0.311988	0.14302312	-	0.361
1627.472	0.241864	0.360695	0.21745112	-	0.361
90.2735	0.360741	0.294774	0.13892781	-	0.361
197.5955	0.360807	0.310259	0.25873413	-	0.361
1606.934	0.361059	0.326132	0.10008096	-	0.361
42.6052	0.153209	0.088692	0.3611531	-	0.361
957.165	0.310906	0.326392	0.36123427	-	0.361
1733.54	0.297625	0.361414	0.13442295	-	0.361
1099.714	0.361423	0.333847	0.20707712	-	0.361
345.3024	0.361468	0.213476	0.21172196	-	0.361
4347.137	0.361592	0.336179	0.22425139	-	0.362
731.7772	0.24443	0.361603	0.06724683	-	0.362
124.3915	0.36162	0.277275	0.27032474	+	0.362
7814.262	0.287245	0.361702	0.26761652	-	0.362
2749.472	0.361758	0.297669	0.27858632	-	0.362
157.4955	0.361771	0.347322	0.28028166	-	0.362
143.9955	0.362058	0.290975	0.07744964	-	0.362
10674.14	0.29872	0.294624	0.36214561	-	0.362
3484.608	0.362274	0.354992	0.21008263	-	0.362
1987.862	0.362294	0.27939	0.16835841	-	0.362
377.3285	0.0745	0.112018	0.36244678	-	0.362
34.7375	0.00883	0.007036	0.36254768	-	0.363
904.3755	0.362625	0.355653	0.13520192	-	0.363
2576.418	0.235863	0.207727	0.36282992	-	0.363
6971.754	0.362876	0.349586	0.26567638	-	0.363
75.0215	0.094124	0.362961	0.35125531	-	0.363
1379.284	0.331216	0.363036	0.28966598	-	0.363
2044.353	0.363163	0.21543	0.1395475	-	0.363
886.4035	0.244084	0.363311	0.06759314	-	0.363
228.7335	0.363377	0.259415	0.20169411	-	0.363
3191.075	0.363449	0.355241	0.17734886	-	0.363

637.0355	0.1673	0.363479	0.07740903	-	0.363
2762.802	0.284652	0.363496	0.06861713	-	0.363
1931.024	0.36377	0.292173	0.10070696	-	0.364
491.5135	0.363834	0.268601	0.22299184	-	0.364
115.6715	0.312148	0.363836	0.23649646	-	0.364
2509.75	0.358851	0.363882	0.27271385	-	0.364
8342.686	0.363884	0.331536	0.22008684	-	0.364
291.013	0.363916	0.350197	0.15469034	-	0.364
165.3115	0.265317	0.364109	0.25397628	-	0.364
774.3402	0.364184	0.356215	0.16475652	-	0.364
1026.49	0.364201	0.275585	0.30257445	-	0.364
129.1998	0.232159	0.36439	0.23182079	+	0.364
404.9995	0.153456	0.364469	0.09113122	-	0.364
1213.046	0.364751	0.25667	0.36374637	-	0.365
1819.436	0.301186	0.364883	0.19065738	-	0.365
2109.767	0.363361	0.364926	0.05068702	-	0.365
1946.244	0.360744	0.348339	0.36496127	-	0.365
2245.098	0.268451	0.365014	0.23019288	-	0.365
16301.98	0.317967	0.36502	0.0751762	-	0.365
40.1378	0.232095	0.163732	0.36502499	-	0.365
2977.242	0.365048	0.352374	0.05575204	-	0.365
35.5245	0.365188	0.275028	0.26307478	-	0.365
2173.844	0.360954	0.346445	0.36520182	-	0.365
586.0036	0.328981	0.312471	0.36520492	-	0.365
76.6385	0.365247	0.29771	0.2599803	-	0.365
521.4135	0.2659	0.365265	0.27297989	-	0.365
754.4856	0.365273	0.322049	0.30217343	-	0.365
38.1634	0.240764	0.214368	0.3654863	-	0.365
8782.252	0.361095	0.36561	0.09070265	-	0.366
863.9912	0.365734	0.365145	0.32265086	-	0.366
3272.69	0.305943	0.36592	0.12338766	-	0.366
236.2195	0.181268	0.365942	0.32591509	-	0.366
4281.157	0.295346	0.292565	0.36605187	-	0.366
1112.898	0.322299	0.284833	0.36617262	-	0.366
225.7418	0.366459	0.323903	0.3253518	-	0.366
42.1418	0.250346	0.123827	0.3665458	-	0.367
33627.22	0.366814	0.364465	0.3558102	-	0.367
768.4115	0.366914	0.364326	0.1466161	-	0.367
574.6595	0.366952	0.342778	0.36087561	-	0.367
667.3975	0.326253	0.36702	0.23364427	-	0.367
1277.303	0.36703	0.354217	0.30281732	-	0.367
3010.622	0.318417	0.367119	0.17516689	-	0.367
244.3855	0.246654	0.367335	0.24005598	-	0.367
2447.554	0.343121	0.339178	0.36739442	-	0.367
1136.259	0.290945	0.367402	0.29852473	-	0.367
87.0515	0.161885	0.202756	0.3674078	-	0.367
847.3049	0.367523	0.273919	0.32548673	-	0.368
1731.332	0.367572	0.359299	0.18610207	-	0.368
107.7035	0.36767	0.339585	0.23007052	-	0.368
736.0018	0.367853	0.342263	0.11959142	-	0.368
485.0938	0.345566	0.367876	0.2582047	-	0.368
10337.26	0.333871	0.368011	0.22952745	-	0.368
9142.042	0.353798	0.36808	0.2097566	-	0.368



591.6555	0.368149	0.348585	0.15411249	-	0.368
533.4475	0.36827	0.289774	0.21264661	-	0.368
187.9151	0.235532	0.268785	0.36827003	-	0.368
903.8195	0.36833	0.300046	0.13759185	-	0.368
2410.966	0.368398	0.352217	0.24452335	-	0.368
6793.504	0.312243	0.285932	0.36857144	-	0.369
156.8784	0.368618	0.352088	0.18280911	+	0.369
63.6192	0.368648	0.142356	0.16204385	-	0.369
1431.656	0.193762	0.290412	0.36874654	+	0.369
3201.852	0.317915	0.368754	0.17077688	-	0.369
3759.134	0.314642	0.368795	0.15821896	-	0.369
1170.058	0.211164	0.237294	0.3688823	-	0.369
646.7495	0.368946	0.352686	0.07723346	-	0.369
227.0473	0.368978	0.314188	0.18451794	+	0.369
2602.959	0.369003	0.345322	0.11828467	-	0.369
1411.888	0.325427	0.287677	0.36912318	+	0.369
193.7835	0.364294	0.304557	0.36923474	-	0.369
319.9215	0.369276	0.282084	0.14144657	-	0.369
180.7335	0.369361	0.340702	0.2138043	-	0.369
724.4055	0.369429	0.227142	0.18384386	-	0.369
177.2562	0.342873	0.309154	0.36945337	-	0.369
1323.525	0.36957	0.281616	0.22721565	-	0.370
436.5795	0.369699	0.19219	0.30589961	-	0.370
1650.968	0.238798	0.369749	0.22459128	-	0.370
182.7615	0.369783	0.202161	0.34531288	-	0.370
424.8635	0.299627	0.369828	0.14927194	-	0.370
2536.816	0.248896	0.18259	0.37023958	-	0.370
516.0742	0.350536	0.339165	0.37028687	+	0.370
727.7775	0.36066	0.370554	0.19990931	-	0.371
6022.164	0.147862	0.370625	0.08048926	-	0.371
707.0895	0.370658	0.21572	0.09700964	+	0.371
12282.88	0.271306	0.330814	0.37070372	+	0.371
2517.564	0.357629	0.320721	0.37072177	-	0.371
134.32	0.368801	0.298614	0.37086957	-	0.371
381.3531	0.370912	0.262089	0.23425927	-	0.371
257.2519	0.343343	0.371072	0.35429165	-	0.371
405.5775	0.093063	0.055899	0.37144935	-	0.371
322.377	0.138196	0.371669	0.11306669	-	0.372
624.9815	0.343836	0.371826	0.34277143	-	0.372
3405.99	0.337719	0.371963	0.19951007	-	0.372
2408.253	0.23544	0.371976	0.14678418	-	0.372
1787.416	0.372097	0.324092	0.25731102	-	0.372
901.0375	0.372325	0.296235	0.30753382	-	0.372
4099.061	0.37235	0.362326	0.33365265	-	0.372
202.4207	0.241994	0.291667	0.37235223	-	0.372
25088.46	0.2934	0.372511	0.02851819	-	0.373
418.4117	0.372544	0.344021	0.09292044	-	0.373
278.3237	0.310066	0.366433	0.37261254	-	0.373
4270.866	0.372616	0.344295	0.08653012	-	0.373
472.0436	0.340242	0.372616	0.21566122	-	0.373
38.4484	0.372689	0.337775	0.32365976	-	0.373
2156.988	0.372744	0.237187	0.03326751	-	0.373
217.4315	0.372745	0.298211	0.24113387	-	0.373

279.5254	0.232943	0.164389	0.37276434	-	0.373
105.9614	0.372871	0.312481	0.20046923	-	0.373
57.8402	0.351648	0.372912	0.30705461	-	0.373
109.1595	0.373232	0.167811	0.34132439	-	0.373
1142.206	0.373375	0.343591	0.07989062	-	0.373
322.419	0.344482	0.373391	0.36630409	-	0.373
2933.02	0.3734	0.338036	0.13565048	-	0.373
6310.678	0.373404	0.261378	0.12888751	-	0.373
254.3895	0.274566	0.373433	0.10556607	-	0.373
3100.694	0.37356	0.325516	0.27660077	-	0.374
524.1395	0.10542	0.373763	0.03046937	-	0.374
1713.162	0.115085	0.373794	0.27335154	-	0.374
2136.261	0.360893	0.373893	0.19542345	-	0.374
2192.8	0.281229	0.373953	0.0240732	-	0.374
136.7775	0.279592	0.374016	0.24372941	-	0.374
153.4475	0.374036	0.355464	0.22038287	-	0.374
297.8068	0.374119	0.354341	0.18271242	-	0.374
1162.602	0.374173	0.289217	0.09817422	-	0.374
956.9935	0.374271	0.356719	0.31674353	-	0.374
6672.784	0.374405	0.332106	0.13211241	-	0.374
274.9475	0.37458	0.305817	0.14294438	-	0.375
4091.065	0.374701	0.283624	0.23171217	-	0.375
1381.442	0.245875	0.374717	0.3035022	-	0.375
1520.638	0.364157	0.374778	0.29945631	-	0.375
285.7695	0.105158	0.374891	0.25943391	-	0.375
2970.727	0.374939	0.338684	0.16160777	-	0.375
1377.341	0.375	0.323179	0.12264285	-	0.375
2010.836	0.267387	0.375085	0.29134134	-	0.375
2029.554	0.309352	0.323138	0.37518178	-	0.375
1342.037	0.105862	0.105121	0.37525554	-	0.375
857.1375	0.37549	0.299052	0.09552551	-	0.375
19.8384	0.375549	0.30584	0.3434904	-	0.376
6722.618	0.320256	0.3756	0.28854469	-	0.376
840.4881	0.375628	0.263671	0.10404371	-	0.376
1395.444	0.375707	0.307309	0.3416731	-	0.376
8986.982	0.37572	0.351247	0.11314274	-	0.376
2603.76	0.370869	0.375859	0.22074677	-	0.376
2180.134	0.358366	0.375918	0.10968938	-	0.376
67.1638	0.376041	0.240991	0.32993071	-	0.376
1857.986	0.376083	0.336359	0.18561447	-	0.376
716.6008	0.234849	0.191629	0.37635417	-	0.376
1712.176	0.257989	0.344232	0.3765919	-	0.377
5641.593	0.376613	0.358218	0.20876362	-	0.377
53.5445	0.376625	0.27941	0.20938658	-	0.377
4454.34	0.3768	0.313696	0.09131489	-	0.377
2687.093	0.376855	0.348839	0.17724736	-	0.377
33.6435	0.376975	0.329995	0.25397774	-	0.377
527.3715	0.377055	0.323862	0.04399062	-	0.377
281.4895	0.342828	0.249946	0.37707588	+	0.377
302.0355	0.336997	0.37741	0.26013697	-	0.377
7320.71	0.377468	0.375149	0.10697044	-	0.377
363.2055	0.37775	0.290278	0.27080399	-	0.378
83.4206	0.377823	0.305383	0.22729877	-	0.378



2334.242	0.377839	0.359977	0.14045912	-	0.378
231.6615	0.314164	0.377855	0.22563309	-	0.378
5506.978	0.37794	0.355021	0.22168158	-	0.378
3361.518	0.378176	0.376529	0.34479948	-	0.378
3337.368	0.334503	0.378243	0.19122174	+	0.378
3364.306	0.233723	0.244568	0.37826863	+	0.378
3224.72	0.37832	0.261059	0.27815613	-	0.378
4826.186	0.378502	0.352402	0.31534335	-	0.379
1596.633	0.288036	0.378574	0.05974665	-	0.379
853.8499	0.302544	0.378586	0.17447856	-	0.379
162.2855	0.143567	0.278013	0.37863149	-	0.379
1660.371	0.378815	0.329981	0.17587481	-	0.379
4737.92	0.289678	0.294321	0.37898396	-	0.379
7696.952	0.379244	0.369044	0.25231229	-	0.379
533.6732	0.338649	0.379335	0.29020663	-	0.379
3150.072	0.379486	0.333977	0.20605739	-	0.379
4261.396	0.372272	0.333753	0.37951775	+	0.380
50.8199	0.235159	0.127389	0.37954817	-	0.380
5391.472	0.379606	0.359479	0.14169203	-	0.380
274.4035	0.379632	0.371379	0.1523122	-	0.380
1196.706	0.123793	0.109339	0.37967528	-	0.380
2914.522	0.372762	0.379723	0.1532011	-	0.380
3212.898	0.379757	0.354616	0.34166839	-	0.380
11905.02	0.380079	0.357984	0.32635877	-	0.380
5167.727	0.380152	0.372236	0.20550302	-	0.380
3374.4	0.320926	0.380204	0.30661651	-	0.380
1427.876	0.380351	0.305891	0.1867008	-	0.380
25.0852	0.380576	0.346349	0.32018481	-	0.381
465.4315	0.380641	0.245011	0.35813111	-	0.381
3433.857	0.315774	0.380641	0.27327678	-	0.381
293.7567	0.212134	0.380664	0.08818454	-	0.381
2596.425	0.2295	0.24952	0.3807238	-	0.381
2733.298	0.381114	0.38042	0.08040146	-	0.381
2807.22	0.380662	0.381208	0.15432904	-	0.381
3331.258	0.353279	0.38121	0.1682594	-	0.381
966.7175	0.378384	0.381248	0.11865048	-	0.381
32.43	0.204688	0.214084	0.38145853	-	0.381
6685.594	0.381475	0.316432	0.19105311	-	0.381
2731.381	0.38158	0.355669	0.20848613	-	0.382
9660.16	0.381672	0.301379	0.31801209	-	0.382
1758.753	0.379501	0.381774	0.25566034	-	0.382
670.9418	0.381961	0.261812	0.04578847	-	0.382
4085.945	0.083051	0.173588	0.38215591	-	0.382
4981.708	0.221397	0.382321	0.17247843	-	0.382
2997.554	0.375452	0.382331	0.09023742	-	0.382
77.4975	0.382461	0.28402	0.32201039	-	0.382
538.8817	0.311894	0.382643	0.19161163	-	0.383
2714.623	0.382658	0.173641	0.22272099	-	0.383
420.4305	0.370298	0.382802	0.05336245	-	0.383
1409.772	0.304873	0.253104	0.38290304	-	0.383
2636.194	0.338278	0.30892	0.38296411	-	0.383
1135.888	0.382974	0.334818	0.09931397	-	0.383
145.4055	0.188289	0.136826	0.38300958	-	0.383

5373.802	0.383015	0.342322	0.07712064	-	0.383
100.526	0.230073	0.232599	0.38309791	-	0.383
155.714	0.192208	0.383129	0.20664744	-	0.383
290.5613	0.322414	0.383232	0.06299669	-	0.383
315.4488	0.33121	0.383273	0.34988087	-	0.383
11757.25	0.383449	0.304781	0.17244189	-	0.383
543.8831	0.383459	0.305313	0.11164697	-	0.383
81.9844	0.355784	0.319695	0.38355346	-	0.384
642.1495	0.195328	0.248889	0.3837597	-	0.384
8614.052	0.380543	0.384002	0.00675362	-	0.384
1679.288	0.121349	0.384013	0.11267219	-	0.384
6419.714	0.384036	0.250426	0.03534387	-	0.384
1814.938	0.276069	0.237404	0.38414518	-	0.384
258.8255	0.384259	0.214071	0.089553	-	0.384
1850.134	0.374116	0.384345	0.37224422	-	0.384
418.9705	0.378838	0.384372	0.1761019	-	0.384
3281.175	0.367618	0.384414	0.23797831	-	0.384
1523.56	0.151407	0.129459	0.38444019	-	0.384
71.3402	0.130562	0.127979	0.38450131	-	0.385
2455.884	0.378118	0.38452	0.10327342	-	0.385
533.5342	0.384901	0.240645	0.07670792	-	0.385
235.1868	0.192191	0.171117	0.38499737	-	0.385
585.9031	0.385212	0.385034	0.1942497	-	0.385
67.3758	0.385313	0.302101	0.1989379	-	0.385
2825.71	0.385335	0.327087	0.12751017	+	0.385
642.6655	0.38554	0.343173	0.31879757	-	0.386
2446.311	0.385611	0.345385	0.21991632	-	0.386
571.3787	0.385773	0.327271	0.04415828	-	0.386
11021.42	0.377798	0.385808	0.37558163	-	0.386
1142.025	0.385943	0.286437	0.26827272	-	0.386
1992.368	0.371791	0.385984	0.21877164	-	0.386
97.8715	0.386066	0.350712	0.33387043	+	0.386
2275.533	0.386133	0.347173	0.05388956	-	0.386
5516.557	0.386138	0.368539	0.15482698	-	0.386
2585.538	0.38616	0.381953	0.19089783	-	0.386
1324.406	0.386179	0.276751	0.16280626	-	0.386
706.8254	0.276303	0.386196	0.35503464	-	0.386
89.6316	0.38634	0.247061	0.13604577	-	0.386
240.7755	0.386377	0.327312	0.21538113	-	0.386
8931.684	0.386436	0.266241	0.25618009	-	0.386
3778.735	0.236211	0.386453	0.20480757	-	0.386
25.3936	0.025345	0.386526	0.23422043	-	0.387
4191.158	0.386528	0.331866	0.03131343	-	0.387
1051.326	0.386555	0.372497	0.37239418	-	0.387
49.3721	0.386717	0.23884	0.16463954	+	0.387
51.9109	0.386816	0.302825	0.32423056	-	0.387
13977.13	0.379777	0.386829	0.11203285	-	0.387
10397.47	0.327005	0.386847	0.12571221	-	0.387
1424.341	0.32709	0.292289	0.38703048	-	0.387
30561.45	0.376083	0.387397	0.24601867	-	0.387
3608.776	0.383102	0.387416	0.26061119	-	0.387
1882.128	0.387493	0.324118	0.09675488	+	0.387
2239.771	0.387656	0.387694	0.30077961	+	0.388



814.9411	0.387806	0.336733	0.17257137	-	0.388
1419.589	0.387883	0.255939	0.1759745	-	0.388
3779.46	0.365759	0.387903	0.19432448	-	0.388
1637.666	0.379269	0.387905	0.33821327	+	0.388
283.0175	0.387976	0.333372	0.12275743	-	0.388
197.5868	0.335952	0.299836	0.38801023	-	0.388
157.0354	0.355962	0.388018	0.24018979	-	0.388
111.3155	0.267549	0.388044	0.27698029	-	0.388
408.7535	0.388074	0.257582	0.04111647	-	0.388
9466.575	0.338566	0.388138	0.3671076	-	0.388
693.9135	0.388169	0.327531	0.16314166	+	0.388
8201.905	0.388322	0.346403	0.27115951	-	0.388
5940.462	0.376919	0.388767	0.2923839	-	0.389
2085.02	0.272146	0.334955	0.38877214	-	0.389
11731.07	0.266544	0.388785	0.23085461	-	0.389
96.3886	0.388786	0.377473	0.23632048	-	0.389
4355.389	0.364775	0.38884	0.19629116	-	0.389
4151.704	0.38907	0.268292	0.11883206	-	0.389
21078.21	0.349799	0.389168	0.14536748	-	0.389
90.2135	0.275791	0.389232	0.1441935	-	0.389
130.7792	0.389517	0.360127	0.06790224	-	0.390
170.4235	0.387921	0.389626	0.10776331	-	0.390
625.8555	0.353736	0.389672	0.20007733	-	0.390
303.6291	0.389751	0.317372	0.10875473	-	0.390
334.8695	0.388399	0.389899	0.38587241	-	0.390
151.806	0.325849	0.390193	0.10661634	-	0.390
18510.99	0.390219	0.358542	0.18390468	-	0.390
145.4617	0.23075	0.390233	0.18763015	-	0.390
2452.543	0.356613	0.390263	0.27365045	-	0.390
286.0279	0.390292	0.323421	0.18531829	-	0.390
22.8226	0.328353	0.289285	0.39043755	-	0.390
278.8229	0.39047	0.251284	0.15588892	+	0.390
58.6492	0.261124	0.390688	0.26255772	-	0.391
128.0396	0.39076	0.337164	0.18724598	-	0.391
445.8515	0.275153	0.390944	0.02788305	-	0.391
142.4035	0.390947	0.345939	0.10992707	-	0.391
113.2068	0.360046	0.391299	0.15361356	-	0.391
2679.623	0.391363	0.377014	0.21584806	-	0.391
4621.993	0.391582	0.352521	0.23796176	-	0.392
9975.834	0.37945	0.382218	0.39158908	-	0.392
5920.542	0.31605	0.38121	0.3917093	-	0.392
14648.99	0.387596	0.391714	0.24017878	-	0.392
64.77	0.391791	0.254277	0.36981319	-	0.392
21590.96	0.357755	0.391819	0.14076182	-	0.392
2389.178	0.391877	0.386937	0.35771393	-	0.392
1010.482	0.391936	0.307117	0.17749647	-	0.392
3192.432	0.392012	0.38877	0.30594943	+	0.392
316.1755	0.39202	0.364441	0.21357537	-	0.392
16182.46	0.208065	0.179578	0.39209713	-	0.392
1081.402	0.134955	0.392141	0.22133084	-	0.392
18274.49	0.392169	0.362159	0.17015167	-	0.392
1148.33	0.25938	0.392259	0.22628992	-	0.392
115.0315	0.264401	0.392566	0.15871913	-	0.393

1698.706	0.114928	0.392588	0.22652314	-	0.393
2852.847	0.234395	0.351423	0.39278287	-	0.393
177.2933	0.392839	0.389369	0.07789409	-	0.393
116.3695	0.392976	0.311058	0.23301638	-	0.393
386.02	0.210646	0.365811	0.39318041	-	0.393
1207.25	0.379816	0.393304	0.25485867	-	0.393
2675.576	0.393432	0.311635	0.20326076	-	0.393
284.9655	0.393462	0.36562	0.12685009	-	0.393
105.9462	0.393605	0.386211	0.36429999	-	0.394
1792.266	0.393624	0.290263	0.13821697	-	0.394
1143.439	0.393673	0.352787	0.20163764	-	0.394
259.8611	0.393758	0.372619	0.1966439	-	0.394
9357.768	0.317523	0.394086	0.14414901	-	0.394
245.5589	0.394115	0.250989	0.14384329	-	0.394
205.8695	0.300635	0.201021	0.39421867	-	0.394
9297.773	0.394227	0.346394	0.16666093	-	0.394
12503.47	0.39353	0.394358	0.27529811	-	0.394
6507.044	0.370049	0.394383	0.35261947	-	0.394
2393.286	0.394418	0.299661	0.36338728	-	0.394
7552.548	0.394803	0.370744	0.22932388	-	0.395
496.9455	0.394867	0.298594	0.22599641	-	0.395
137.6875	0.394917	0.39346	0.2798729	-	0.395
1502.714	0.394944	0.234883	0.03468165	-	0.395
298.5495	0.145692	0.394964	0.32285467	-	0.395
173.9615	0.395088	0.176164	0.2791336	-	0.395
9292.67	0.395094	0.356461	0.00563099	-	0.395
144.8375	0.395139	0.148062	0.0739767	-	0.395
35.8898	0.32197	0.151173	0.39514848	-	0.395
4216.236	0.293894	0.395173	0.1548376	-	0.395
1388.69	0.311132	0.395299	0.0905656	-	0.395
4408.4	0.305618	0.395392	0.32515281	-	0.395
366.1795	0.288091	0.395838	0.31644999	-	0.396
10397.27	0.382739	0.329879	0.39591636	-	0.396
12929.11	0.367429	0.345067	0.39592653	-	0.396
335.5495	0.352254	0.396029	0.040867	-	0.396
39.2777	0.303478	0.396176	0.28544187	-	0.396
19.8066	0.143642	0.130655	0.39635273	-	0.396
3734.468	0.396498	0.385995	0.34141866	-	0.396
53.7315	0.396557	0.379558	0.35451272	-	0.397
110.935	0.396666	0.316769	0.14640916	-	0.397
159.847	0.2298	0.260286	0.39675565	-	0.397
2586.926	0.225355	0.186351	0.39679893	-	0.397
3902.072	0.3969	0.334913	0.1850206	-	0.397
6565.51	0.292401	0.298265	0.3969164	-	0.397
301.3913	0.396965	0.363259	0.37267001	-	0.397
6108.174	0.39304	0.327024	0.39707345	-	0.397
485.3015	0.322116	0.397152	0.22282499	-	0.397
1473.059	0.148329	0.397214	0.37191651	-	0.397
11836.34	0.363838	0.397305	0.05926963	-	0.397
486.6155	0.392739	0.39734	0.18178377	-	0.397
2722.436	0.397379	0.384625	0.33874201	+	0.397
3484.478	0.323215	0.397498	0.21666649	-	0.397
8742.616	0.397517	0.368884	0.25879	-	0.398

1982.236	0.375637	0.397549	0.29996106	-	0.398
64.3703	0.397564	0.278155	0.38235957	-	0.398
103.6015	0.397639	0.330971	0.21107706	-	0.398
4983.052	0.350077	0.397892	0.08629202	-	0.398
370.6326	0.31831	0.397991	0.29567421	-	0.398
3083.238	0.326256	0.398032	0.08521609	-	0.398
157.6789	0.398081	0.386302	0.17671293	-	0.398
74.7815	0.398092	0.206075	0.26912539	-	0.398
1208.472	0.315869	0.289385	0.39834735	-	0.398
1553.384	0.23197	0.398355	0.06804924	-	0.398
1448.432	0.265225	0.398448	0.22054692	-	0.398
334.9455	0.300273	0.398488	0.10089343	-	0.398
126.7235	0.202131	0.398495	0.0615971	-	0.398
574.2155	0.297614	0.398545	0.29754944	-	0.399
915.5315	0.129336	0.14978	0.39877765	-	0.399
6984.175	0.319442	0.294036	0.39881385	-	0.399
5758.529	0.398826	0.325068	0.09334459	-	0.399
1729.232	0.173909	0.398872	0.07018337	-	0.399
19329.76	0.370871	0.39894	0.01091163	-	0.399
20.6139	0.198515	0.241895	0.39895895	-	0.399
5129.599	0.397169	0.399141	0.19308297	-	0.399
684.712	0.399282	0.365229	0.20001417	-	0.399
63.4766	0.39935	0.278034	0.11569303	-	0.399
79.0955	0.074625	0.265949	0.39943612	-	0.399
1477.618	0.399455	0.353218	0.28196838	-	0.399
59.9991	0.3995	0.342875	0.37879068	-	0.400
1675.913	0.399537	0.38766	0.25161422	-	0.400
27527.78	0.374685	0.399634	0.21549529	+	0.400
167.4115	0.372806	0.399636	0.30946858	-	0.400
1281.95	0.393077	0.399707	0.3097948	-	0.400
432.1643	0.399722	0.333013	0.33130802	-	0.400
106.4784	0.399774	0.354376	0.31705116	-	0.400
83.3669	0.399821	0.360852	0.19817697	-	0.400
12806.13	0.277387	0.399937	0.35289447	-	0.400
20.0969	0.356735	0.342564	0.39996716	-	0.400
1899.874	0.400029	0.368696	0.39128158	-	0.400
2239.912	0.400145	0.309755	0.12695657	-	0.400
2280.68	0.115044	0.400259	0.37929897	-	0.400
42.0882	0.362803	0.218361	0.40040676	-	0.400
351.7774	0.30921	0.400477	0.36771094	-	0.400
1506.668	0.381841	0.400613	0.04407867	-	0.401
6972.003	0.400725	0.320474	0.27092437	-	0.401
1025.768	0.294538	0.400942	0.24815387	-	0.401
2078.272	0.400943	0.327903	0.22197721	-	0.401
85.0275	0.400988	0.316503	0.25407545	-	0.401
53.7977	0.342733	0.401078	0.31108393	-	0.401
17353.3	0.401085	0.355083	0.30456823	-	0.401
593.6515	0.392527	0.401309	0.26612634	-	0.401
688.5659	0.38044	0.401388	0.28647875	-	0.401
316.5215	0.401399	0.338919	0.15057429	-	0.401
1455.446	0.40142	0.375865	0.24743867	+	0.401
259.9615	0.401525	0.273154	0.24987546	-	0.402
21.3781	0.157313	0.401659	0.38827585	-	0.402

973.0695	0.401761	0.37516	0.3256232	-	0.402
2317.78	0.401845	0.384977	0.27853016	-	0.402
3712.686	0.227603	0.401864	0.32578434	-	0.402
12615.83	0.401914	0.389006	0.33031691	-	0.402
3959.64	0.361835	0.401964	0.25982858	+	0.402
5674.99	0.402027	0.3945	0.39399958	-	0.402
7938.821	0.359823	0.402048	0.0922425	-	0.402
1483.538	0.330307	0.402134	0.08609253	-	0.402
986.0547	0.402265	0.350351	0.15847346	-	0.402
2600.575	0.402353	0.361105	0.00774675	-	0.402
697.629	0.402421	0.373532	0.20499047	-	0.402
149.1995	0.402512	0.388365	0.13033288	-	0.403
7236.355	0.388614	0.402526	0.20096768	-	0.403
3913.977	0.148186	0.402552	0.19415225	-	0.403
5123.411	0.375932	0.402585	0.34031578	-	0.403
1271.027	0.402588	0.355653	0.09992826	-	0.403
734.286	0.402752	0.354326	0.10441953	+	0.403
2768.826	0.38109	0.40279	0.14447371	-	0.403
2949.878	0.402803	0.327247	0.14210946	-	0.403
3735.592	0.401412	0.383258	0.402894	-	0.403
691.5135	0.296175	0.4029	0.28988516	-	0.403
8076.667	0.289288	0.40297	0.26708841	-	0.403
18.4571	0.3553	0.203985	0.40305899	+	0.403
495.5135	0.4031	0.233428	0.13024085	-	0.403
415.6301	0.33614	0.403268	0.19486895	-	0.403
369.5642	0.355489	0.285913	0.40358942	-	0.404
4901.178	0.403663	0.313781	0.267614	-	0.404
1466.133	0.29441	0.40395	0.40243805	-	0.404
998.0023	0.276405	0.403973	0.20636245	-	0.404
76.5895	0.21688	0.107925	0.40398357	-	0.404
753.1722	0.404116	0.396246	0.25083175	-	0.404
631.2919	0.275061	0.404206	0.19700475	-	0.404
2409.081	0.3348	0.404393	0.04362887	-	0.404
3419.045	0.404423	0.336675	0.18551782	-	0.404
6658.36	0.404448	0.344454	0.28728169	-	0.404
229.3335	0.404522	0.240394	0.2264244	-	0.405
134.3815	0.404893	0.402712	0.34348999	-	0.405
626.5715	0.404985	0.383912	0.37520937	+	0.405
8851.115	0.381927	0.314082	0.40525346	-	0.405
2124.198	0.361142	0.405328	0.32355819	-	0.405
924.1455	0.395786	0.405476	0.38063865	-	0.405
17.0404	0.044421	0.02601	0.40557147	-	0.406
15506.69	0.405574	0.4046	0.24103317	-	0.406
3593.148	0.304139	0.362417	0.40568429	-	0.406
99.9235	0.405725	0.377667	0.33487218	-	0.406
275.786	0.405731	0.382737	0.19932121	-	0.406
4470.255	0.268617	0.26073	0.40574678	-	0.406
18.1932	0.153861	0.364613	0.40577798	-	0.406
5414.246	0.399863	0.405848	0.39415086	-	0.406
479.6825	0.244073	0.405875	0.3648653	-	0.406
1724.674	0.390495	0.406061	0.38316789	-	0.406
7228.134	0.40607	0.37049	0.37308301	-	0.406
6096.041	0.406077	0.295461	0.30088698	-	0.406



3109.514	0.375521	0.406198	0.33026678	-	0.406
680.9995	0.406269	0.285005	0.04883073	-	0.406
2240.375	0.363671	0.406308	0.15489352	-	0.406
1575.463	0.314536	0.406424	0.15119712	-	0.406
5097.26	0.406431	0.380999	0.17203548	-	0.406
414.8494	0.272427	0.369867	0.40647883	-	0.406
206.8834	0.143376	0.133257	0.40648742	-	0.406
4602.806	0.276779	0.379113	0.40666491	-	0.407
72.9896	0.406772	0.40685	0.17336305	-	0.407
994.5655	0.406876	0.339388	0.09507941	-	0.407
5733.374	0.406877	0.38273	0.19829748	-	0.407
226.5592	0.406922	0.348734	0.38269688	-	0.407
3130.622	0.346374	0.267162	0.40697311	-	0.407
20735.12	0.362058	0.407117	0.12790068	-	0.407
415.1535	0.4074	0.344525	0.1377753	-	0.407
65.0723	0.407408	0.184491	0.33051698	-	0.407
1878.383	0.396407	0.407808	0.08036805	-	0.408
229.0075	0.407859	0.379793	0.18333548	-	0.408
1911.354	0.407862	0.355377	0.29460218	+	0.408
26234.59	0.407974	0.368447	0.32477388	-	0.408
21603.35	0.408003	0.338321	0.13370279	-	0.408
5411.717	0.36224	0.254256	0.40801909	-	0.408
247.7387	0.371413	0.301904	0.40817805	-	0.408
1153.492	0.408206	0.290432	0.05172921	-	0.408
5337.16	0.408264	0.392833	0.36215996	-	0.408
3584.19	0.404977	0.40844	0.2514754	-	0.408
99.5195	0.29061	0.383079	0.40847573	-	0.408
2700.274	0.403236	0.408492	0.39798098	-	0.408
1610.86	0.314555	0.337034	0.40850875	-	0.409
125.1362	0.408565	0.216575	0.17888269	-	0.409
184.6355	0.40882	0.33469	0.05836364	-	0.409
619.8453	0.377271	0.304041	0.40894639	-	0.409
488.1735	0.126148	0.409021	0.17229018	-	0.409
209.8487	0.301452	0.364662	0.40914954	-	0.409
4860.904	0.409193	0.39569	0.26175144	-	0.409
2542.442	0.338207	0.409282	0.34561259	-	0.409
162.751	0.224452	0.212341	0.40931116	-	0.409
5118.368	0.409392	0.400775	0.16869621	-	0.409
1403.112	0.394114	0.40949	0.10009005	-	0.409
2685.378	0.409512	0.407738	0.15499161	+	0.410
142.8315	0.409602	0.24688	0.33794926	-	0.410
281.7375	0.40961	0.23199	0.22870793	-	0.410
8891.594	0.40968	0.363561	0.1660469	-	0.410
94.9355	0.212196	0.409713	0.25389975	-	0.410
2778.564	0.409735	0.372544	0.39735406	-	0.410
134.0175	0.410531	0.343684	0.3142127	-	0.411
327.0275	0.372195	0.399666	0.41056945	-	0.411
1959.652	0.410585	0.304401	0.07303923	-	0.411
1734.958	0.409825	0.410788	0.2659751	-	0.411
337.0851	0.410791	0.386938	0.1466867	-	0.411
3007.52	0.391002	0.410924	0.13620707	-	0.411
176.5895	0.410942	0.30015	0.21012688	-	0.411
312.9735	0.410957	0.275988	0.40741948	-	0.411

91.3066	0.246804	0.411022	0.33221257	-	0.411
6486.495	0.328254	0.350945	0.41105625	-	0.411
163.6376	0.411088	0.150295	0.07164307	-	0.411
6586.634	0.401699	0.411162	0.21606728	-	0.411
161.7535	0.411239	0.298299	0.24367077	-	0.411
531.5464	0.363809	0.411256	0.33922438	-	0.411
855.2555	0.383641	0.411294	0.33309754	-	0.411
313.6129	0.411371	0.39731	0.34002268	-	0.411
23.3986	0.324986	0.175799	0.4114135	-	0.411
104.6555	0.24943	0.411431	0.14228397	-	0.411
2233.496	0.39508	0.411434	0.13841779	-	0.411
1305.716	0.208092	0.319466	0.41160836	-	0.412
2246.378	0.371872	0.411696	0.12404304	-	0.412
5543.536	0.309858	0.411748	0.29157124	-	0.412
819.3554	0.411829	0.392727	0.1333962	-	0.412
1323.407	0.412367	0.354019	0.1224759	-	0.412
693.8455	0.41237	0.330243	0.17686863	-	0.412
6923.736	0.412407	0.393372	0.38530498	-	0.412
993.0935	0.412455	0.403949	0.22045004	-	0.412
121.1675	0.412484	0.27586	0.1090738	-	0.412
6619.679	0.364787	0.355029	0.41250532	-	0.413
477.4915	0.412521	0.224252	0.10178317	-	0.413
5506.845	0.276599	0.412711	0.37545199	-	0.413
2696.927	0.412713	0.396068	0.21060234	-	0.413
5300.626	0.338622	0.412929	0.02747968	-	0.413
5921.214	0.286545	0.201055	0.41296927	-	0.413
1023.476	0.412996	0.291923	0.25892896	-	0.413
248.2093	0.41315	0.26002	0.05232761	-	0.413
201.673	0.413348	0.362659	0.26559777	-	0.413
1792.6	0.221884	0.162731	0.41344385	-	0.413
3524.206	0.413464	0.34701	0.15349939	-	0.413
987.1112	0.405016	0.413522	0.19936032	+	0.414
616.9355	0.384627	0.413584	0.17024097	-	0.414
413.4075	0.413594	0.387104	0.03749158	-	0.414
3371.558	0.354705	0.312172	0.41362827	-	0.414
310.7542	0.413667	0.375027	0.35622077	-	0.414
1529.448	0.413841	0.343647	0.367807	-	0.414
3953.306	0.413858	0.393489	0.22888678	-	0.414
37.0117	0.316603	0.413923	0.2654647	-	0.414
25.3461	0.414068	0.284106	0.23403601	-	0.414
10378.82	0.414086	0.386747	0.40333526	-	0.414
575.6575	0.210771	0.21201	0.41418656	-	0.414
96.0035	0.194979	0.414187	0.28836657	-	0.414
162.1895	0.414271	0.298585	0.13225024	-	0.414
1459.536	0.122789	0.14686	0.41435217	-	0.414
191.1835	0.414355	0.314554	0.23017677	-	0.414
496.8423	0.4145	0.386224	0.10221593	-	0.415
406.7475	0.333739	0.414532	0.20568412	-	0.415
622.4177	0.414565	0.356306	0.15615799	-	0.415
258.0115	0.414691	0.391622	0.03673906	-	0.415
830.0215	0.414729	0.304839	0.25907739	-	0.415
10002.56	0.357164	0.40091	0.41479702	-	0.415
787.2554	0.408872	0.414798	0.24844479	-	0.415



1386.458	0.09855	0.414986	0.02084096	-	0.415
10026.77	0.331973	0.258791	0.41515138	-	0.415
5688.916	0.102056	0.409912	0.41516235	+	0.415
185.9295	0.415203	0.365965	0.09619022	-	0.415
2343.096	0.348031	0.415384	0.28937224	-	0.415
60.0405	0.209069	0.415913	0.23203504	-	0.416
546.1375	0.415948	0.384981	0.15079096	-	0.416
63.6986	0.408932	0.415964	0.3200714	-	0.416
5406.68	0.415973	0.329045	0.28739368	-	0.416
161.2235	0.370201	0.300689	0.41611676	-	0.416
230.671	0.38946	0.277214	0.41617108	-	0.416
6912.26	0.230268	0.416294	0.36922011	-	0.416
758.3395	0.416318	0.270634	0.1547005	-	0.416
209.6993	0.295644	0.275982	0.41635571	-	0.416
705.0155	0.316217	0.416372	0.23082429	-	0.416
309.2435	0.384469	0.41672	0.20054908	-	0.417
6126.214	0.295004	0.317148	0.41684566	-	0.417
2155.974	0.416981	0.367437	0.3220612	-	0.417
3764.452	0.39971	0.416992	0.13735424	-	0.417
4336.18	0.416994	0.365213	0.40093301	-	0.417
846.3755	0.417269	0.371311	0.09399551	-	0.417
403.2863	0.377811	0.417276	0.26005223	-	0.417
2355.562	0.417416	0.35009	0.23799307	-	0.417
13831.22	0.417423	0.405154	0.27796496	-	0.417
2811.288	0.417645	0.373279	0.07983015	-	0.418
3203.24	0.417756	0.412091	0.40866863	-	0.418
1688.697	0.346761	0.417788	0.06721956	-	0.418
4610.42	0.41785	0.400007	0.21111675	-	0.418
4025.498	0.417935	0.345643	0.39951068	-	0.418
7930.71	0.417968	0.331191	0.40410426	-	0.418
139.2275	0.38794	0.418153	0.30720799	-	0.418
3478.83	0.25817	0.205624	0.41827215	-	0.418
5701.154	0.418323	0.353775	0.13789657	-	0.418
10135.12	0.418417	0.378228	0.30258614	-	0.418
6632.002	0.36431	0.418469	0.39603874	-	0.418
2167.682	0.387079	0.418516	0.30127165	-	0.419
368.8475	0.418531	0.350113	0.25105633	-	0.419
1267.672	0.41867	0.404149	0.23258549	-	0.419
2826.736	0.308946	0.41868	0.26227127	-	0.419
2469.472	0.32655	0.418715	0.20593536	-	0.419
2064.352	0.208217	0.418734	0.02929583	-	0.419
37.7989	0.298831	0.418744	0.37771734	-	0.419
8034.268	0.234425	0.38038	0.41884129	-	0.419
684.0157	0.418931	0.353133	0.11918074	-	0.419
499.853	0.307483	0.418932	0.14073338	-	0.419
32.6273	0.38534	0.419249	0.36144272	-	0.419
12204.88	0.419265	0.353856	0.23337851	-	0.419
119.3175	0.419344	0.214712	0.18687032	-	0.419
194.656	0.419349	0.334361	0.24968765	-	0.419
3049.288	0.132808	0.151762	0.41960138	-	0.420
2852.918	0.419671	0.370902	0.25371505	-	0.420
179.6317	0.192971	0.116062	0.4197316	-	0.420
2096.541	0.419765	0.364205	0.11273547	-	0.420

8149.2	0.357479	0.41984	0.02380953	-	0.420
2019.535	0.419968	0.339773	0.30571273	-	0.420
1225.163	0.377431	0.419996	0.22384891	-	0.420
11687.66	0.420122	0.379815	0.00877348	-	0.420
1561.478	0.420183	0.366862	0.17993183	-	0.420
8815.616	0.420435	0.358554	0.30207823	-	0.420
190.8395	0.420506	0.267353	0.20711016	-	0.421
68.0277	0.420626	0.400256	0.21063626	-	0.421
173.3235	0.323157	0.134217	0.42066136	-	0.421
13577.97	0.420777	0.388317	0.14975486	-	0.421
2245.649	0.420825	0.378768	0.07672681	-	0.421
3369.833	0.420833	0.418815	0.2450648	-	0.421
2282.052	0.316455	0.420869	0.05461752	-	0.421
112.7925	0.364677	0.421106	0.14082053	-	0.421
1601.122	0.365778	0.421147	0.3983224	-	0.421
4287.334	0.421151	0.358208	0.41336029	-	0.421
602.1849	0.421281	0.416185	0.2047411	-	0.421
290.2542	0.421296	0.3364	0.19179292	-	0.421
1994.743	0.42136	0.412581	0.09303631	-	0.421
3370.106	0.421506	0.337564	0.33668123	-	0.422
6038.106	0.420346	0.41087	0.42155996	-	0.422
691.3888	0.421667	0.25261	0.3593434	-	0.422
4047.044	0.421676	0.419379	0.1998554	-	0.422
2513.786	0.300288	0.421757	0.21789182	-	0.422
5873.243	0.421949	0.383688	0.30534361	-	0.422
102.4935	0.159103	0.422147	0.13275378	-	0.422
977.7148	0.318295	0.422172	0.23580384	-	0.422
3687.29	0.422209	0.388881	0.31723669	-	0.422
437.1935	0.361864	0.422223	0.26414597	-	0.422
3884.43	0.422243	0.370099	0.32538982	-	0.422
1267.79	0.366162	0.422295	0.31552359	-	0.422
3463.105	0.4224	0.346451	0.22421828	-	0.422
969.6066	0.235937	0.422403	0.36762621	-	0.422
178.3735	0.422501	0.313533	0.28058204	-	0.423
252.9098	0.422535	0.241457	0.20089653	-	0.423
327.7415	0.4052	0.422551	0.10333022	-	0.423
271.6015	0.422643	0.275385	0.08372156	-	0.423
1620.045	0.400626	0.423009	0.39597998	-	0.423
3336.588	0.423058	0.421505	0.18201516	-	0.423
3073.646	0.415898	0.42316	0.32487462	-	0.423
1072.427	0.282235	0.423181	0.28851721	-	0.423
56.0917	0.423211	0.369053	0.12860726	-	0.423
1307.757	0.423312	0.411712	0.34594781	-	0.423
1712.491	0.423528	0.328688	0.09986983	-	0.424
200.2276	0.101613	0.098937	0.42357447	-	0.424
101.468	0.29715	0.423586	0.1654019	-	0.424
7943.962	0.423612	0.347205	0.39067051	-	0.424
3870.639	0.423719	0.402917	0.40673319	-	0.424
2806.71	0.403024	0.423721	0.08793343	-	0.424
9446.53	0.415769	0.423778	0.25796799	-	0.424
407.3975	0.125807	0.097395	0.42400211	-	0.424
137.85	0.307931	0.424126	0.15005803	-	0.424
11377.85	0.416728	0.400764	0.42417541	-	0.424



91.3075	0.424346	0.265174	0.08229444	-	0.424
6556.471	0.424465	0.313618	0.35588794	-	0.424
259.9113	0.394341	0.424556	0.15926741	-	0.425
380.9527	0.424652	0.417565	0.16668657	-	0.425
400.7375	0.424726	0.168507	0.06953729	-	0.425
37.4969	0.424778	0.329033	0.31419664	-	0.425
2246.381	0.373212	0.349557	0.42482859	-	0.425
3326.622	0.369854	0.425052	0.21250434	-	0.425
5175.551	0.425326	0.412437	0.28901684	-	0.425
4107.552	0.387275	0.337457	0.42535742	-	0.425
444.9417	0.425398	0.320661	0.14660078	-	0.425
8245.033	0.314988	0.256922	0.42548401	-	0.425
535.4615	0.425524	0.418774	0.15631749	-	0.426
266.6478	0.312573	0.425628	0.13627114	-	0.426
1474.552	0.258088	0.276117	0.4256301	-	0.426
201.7615	0.425836	0.367919	0.28456569	-	0.426
230.5035	0.425845	0.400972	0.3549252	-	0.426
56.2472	0.3351	0.264276	0.42584875	-	0.426
1301.75	0.414036	0.425913	0.18169356	-	0.426
3372.434	0.390231	0.425935	0.14697087	-	0.426
3258.852	0.353347	0.425986	0.39257128	-	0.426
127.4167	0.149097	0.213557	0.42606503	-	0.426
1408.339	0.426136	0.351772	0.17509727	+	0.426
46.5999	0.153272	0.201507	0.42614255	-	0.426
8188.871	0.414498	0.426161	0.35333266	-	0.426
2122.493	0.426215	0.405727	0.38919202	-	0.426
85.8075	0.326542	0.426395	0.2060659	-	0.426
7871.032	0.426481	0.409645	0.23236121	-	0.426
467.7631	0.316705	0.426575	0.18554585	-	0.427
65.7753	0.426622	0.274697	0.15642802	-	0.427
7916.55	0.358948	0.426741	0.04991335	-	0.427
13573.97	0.406547	0.323332	0.42674754	-	0.427
2231.631	0.426762	0.408486	0.28363992	-	0.427
1708.201	0.366736	0.378612	0.42677099	-	0.427
1545.826	0.388735	0.426869	0.11818578	-	0.427
5156.922	0.398706	0.426869	0.25285968	+	0.427
160.9257	0.393646	0.4022	0.42692249	-	0.427
131.6939	0.426991	0.350518	0.41106991	-	0.427
62.1445	0.033365	0.07117	0.42705791	+	0.427
1241.21	0.255081	0.427098	0.29742562	-	0.427
15809.48	0.22234	0.219443	0.42726591	-	0.427
505.3951	0.427282	0.37955	0.24727446	-	0.427
656.5599	0.416671	0.427328	0.20959169	-	0.427
14.3906	0.261029	0.367046	0.42733451	-	0.427
85.6583	0.427348	0.254199	0.3757581	-	0.427
94.4702	0.427375	0.350408	0.12918254	-	0.427
8337.633	0.199574	0.427416	0.3675678	-	0.427
800.3875	0.340264	0.427553	0.13672815	-	0.428
26662.58	0.427837	0.422596	0.30030041	-	0.428
55.0023	0.376218	0.298329	0.42784756	-	0.428
115.3395	0.427892	0.415187	0.31690791	-	0.428
54.4669	0.400013	0.428085	0.17791356	-	0.428
1852.043	0.295235	0.363025	0.42808914	-	0.428

159.7826	0.354065	0.25896	0.42810481	-	0.428
1481.186	0.428155	0.304403	0.36950105	+	0.428
101.9515	0.141175	0.428275	0.41162121	-	0.428
520.392	0.428304	0.285531	0.13929422	-	0.428
390.7755	0.428348	0.388966	0.28361937	-	0.428
235.9675	0.237364	0.428443	0.11493701	-	0.428
166.6375	0.396798	0.393684	0.42845818	-	0.428
132.6355	0.261361	0.428503	0.39354396	-	0.429
82.166	0.428526	0.333488	0.26173843	-	0.429
2199.807	0.110574	0.130963	0.42857739	-	0.429
3842.016	0.428581	0.339025	0.33915756	-	0.429
1693.691	0.428658	0.297273	0.41405752	-	0.429
5630.61	0.401547	0.428786	0.34984055	-	0.429
2564.002	0.386958	0.428919	0.08368786	-	0.429
69.3826	0.254049	0.296888	0.42895049	-	0.429
115.5915	0.281565	0.429073	0.32446936	-	0.429
2935.229	0.324351	0.429381	0.0466783	-	0.429
201.6135	0.334579	0.236562	0.42944297	-	0.429
5090.873	0.392456	0.42947	0.1486746	-	0.429
9079.078	0.405429	0.429508	0.20775298	-	0.430
720.7755	0.42956	0.354236	0.40652533	-	0.430
1773.37	0.267718	0.226945	0.42958306	+	0.430
6052.427	0.404489	0.429595	0.3056284	-	0.430
3890.683	0.429623	0.35568	0.0938091	-	0.430
78.5055	0.115967	0.231706	0.42980173	-	0.430
450.6481	0.422068	0.429834	0.19467407	-	0.430
570.7344	0.429985	0.289851	0.15056303	-	0.430
1375.064	0.406918	0.430034	0.26757326	-	0.430
2810.121	0.430257	0.372598	0.1370032	-	0.430
6854.414	0.430186	0.430309	0.20033927	-	0.430
9681.584	0.430369	0.41625	0.25633446	-	0.430
34409.11	0.430453	0.410174	0.23033466	-	0.430
795.0873	0.430466	0.350418	0.39361489	+	0.430
1771.854	0.216043	0.304944	0.43066954	+	0.431
665.9497	0.430683	0.311397	0.34983348	-	0.431
1235.928	0.270592	0.279293	0.43073382	-	0.431
7502.272	0.292957	0.430978	0.22440983	-	0.431
675.2059	0.431003	0.32695	0.38322192	-	0.431
1890.816	0.430316	0.431161	0.31977287	-	0.431
72.0066	0.431392	0.410723	0.17359659	-	0.431
88.0374	0.321286	0.248792	0.43141892	-	0.431
389.1865	0.278945	0.149383	0.4314294	-	0.431
53.5639	0.306596	0.315681	0.4314753	-	0.431
60.4272	0.431577	0.228413	0.3471963	-	0.432
461.1402	0.35456	0.431585	0.24212918	-	0.432
235.5575	0.303114	0.431687	0.05440115	-	0.432
4206.554	0.406234	0.431694	0.19655414	-	0.432
1083.51	0.336026	0.431992	0.28991559	-	0.432
142.3375	0.43225	0.264816	0.12666444	-	0.432
1519.562	0.423315	0.432383	0.11729871	+	0.432
636.4695	0.429938	0.432386	0.14774329	-	0.432
4944.268	0.432479	0.379816	0.14512595	-	0.432
6918.287	0.285516	0.432557	0.12561313	-	0.433

37.5499	0.424642	0.210643	0.43256041	-	0.433
571.4915	0.4327	0.325481	0.0992139	-	0.433
30.4637	0.33987	0.227813	0.43274783	-	0.433
15932.95	0.307996	0.432778	0.42253418	-	0.433
3397.512	0.399775	0.432844	0.38362589	+	0.433
61.9465	0.432845	0.359437	0.38736652	-	0.433
4259.812	0.277251	0.43292	0.19672455	-	0.433
1305.846	0.432936	0.343568	0.348233	-	0.433
341.0435	0.266092	0.291442	0.43304564	-	0.433
118.7135	0.225557	0.43306	0.41421321	-	0.433
2771.017	0.346663	0.433155	0.32036233	-	0.433
3000.409	0.394651	0.377508	0.43317205	-	0.433
51.4919	0.433224	0.369023	0.35217384	-	0.433
424.9675	0.433277	0.357305	0.39381835	-	0.433
9125.558	0.212598	0.433366	0.0015038	-	0.433
2579.01	0.398781	0.398109	0.4333809	-	0.433
323.2115	0.354172	0.433483	0.25038558	-	0.433
1031.274	0.43359	0.3908	0.08377942	-	0.434
219.8973	0.377238	0.271154	0.43364107	-	0.434
176.4135	0.35842	0.433699	0.14420552	-	0.434
82.3975	0.241846	0.236191	0.4337668	-	0.434
1752.537	0.242322	0.171731	0.43383133	-	0.434
6290.648	0.40823	0.433879	0.28349465	-	0.434
783.6875	0.433894	0.378264	0.25218917	-	0.434
5151.432	0.271854	0.434002	0.39715514	-	0.434
3706.858	0.422468	0.375674	0.4340991	-	0.434
5708.986	0.434134	0.394808	0.34951385	-	0.434
3493.963	0.419972	0.434298	0.17355063	-	0.434
783.0095	0.345163	0.434303	0.19381055	-	0.434
2570.73	0.42204	0.434327	0.21577311	-	0.434
42949.52	0.413371	0.434617	0.3181081	-	0.435
6764.226	0.382181	0.434687	0.16118379	-	0.435
944.7455	0.434821	0.350477	0.16665388	-	0.435
255.7595	0.357545	0.434874	0.3588508	-	0.435
740.8335	0.434909	0.412379	0.10289154	-	0.435
6762.734	0.434917	0.395503	0.37220415	-	0.435
2190.093	0.416616	0.434987	0.33036477	-	0.435
1603.329	0.435082	0.33315	0.03497242	-	0.435
139.2848	0.395141	0.435152	0.19709186	-	0.435
9431.275	0.43521	0.295918	0.07231948	-	0.435
6195.2	0.435232	0.405997	0.22928229	-	0.435
392.5413	0.435369	0.38017	0.31181305	-	0.435
246.5271	0.359376	0.321748	0.43539027	-	0.435
1000.534	0.40819	0.435432	0.03295832	-	0.435
147.3695	0.282297	0.272344	0.43547749	-	0.435
4136.948	0.435539	0.39645	0.19880968	-	0.436
5444.038	0.435581	0.433396	0.16839569	-	0.436
1536.618	0.435659	0.379442	0.25488807	-	0.436
2378.599	0.435708	0.34791	0.15695018	-	0.436
7993.277	0.165712	0.30208	0.43571809	-	0.436
9693.44	0.359934	0.435746	0.37837718	-	0.436
259.1224	0.435831	0.275999	0.37118173	-	0.436
2173.306	0.435864	0.385179	0.34427801	-	0.436

3278.004	0.366251	0.436078	0.31103539	-	0.436
125.6575	0.23108	0.43612	0.26022482	-	0.436
1632.508	0.290011	0.436202	0.16569082	-	0.436
1156.832	0.28456	0.436216	0.06936484	+	0.436
4565.471	0.436281	0.434785	0.39320691	-	0.436
447.7141	0.436284	0.354972	0.14321751	-	0.436
11994.29	0.41815	0.436288	0.19964469	-	0.436
3267.734	0.235652	0.399985	0.43635243	-	0.436
2072.486	0.436553	0.36234	0.3282906	-	0.437
4126.198	0.401449	0.436574	0.43542499	-	0.437
86.3196	0.33082	0.327582	0.43661926	-	0.437
1915.293	0.317816	0.436636	0.07821842	-	0.437
691.5555	0.379974	0.436648	0.13069595	-	0.437
3537.615	0.316895	0.385233	0.43665596	-	0.437
56.6714	0.422838	0.436914	0.24310146	-	0.437
5313.471	0.418838	0.43702	0.27397524	-	0.437
95.0295	0.437056	0.282956	0.30392983	-	0.437
3561.334	0.435617	0.437064	0.38381339	-	0.437
371.0443	0.314644	0.374458	0.43729954	-	0.437
645.9415	0.432738	0.437345	0.26984286	-	0.437
1765.709	0.437352	0.407327	0.25525239	-	0.437
382.152	0.437485	0.387158	0.12979364	-	0.437
210.8774	0.4108	0.437507	0.10972821	-	0.438
8239.046	0.437587	0.412238	0.26825698	-	0.438
4650.232	0.437668	0.376764	0.41141791	-	0.438
536.2864	0.437681	0.427939	0.25131627	-	0.438
13240.02	0.408473	0.437828	0.22215673	-	0.438
1934.699	0.428406	0.437879	0.35558575	-	0.438
393.9115	0.437952	0.401134	0.25552821	-	0.438
1261.48	0.321421	0.200564	0.43795781	-	0.438
14435.98	0.438	0.414177	0.2313864	-	0.438
3080.104	0.26087	0.438036	0.33639827	-	0.438
264.3338	0.371639	0.438038	0.18152086	-	0.438
29.9493	0.206938	0.438045	0.23816583	-	0.438
54.868	0.342609	0.233602	0.43813152	-	0.438
5804.375	0.438181	0.333296	0.23527719	-	0.438
60.6809	0.370522	0.438309	0.37106569	-	0.438
4824.426	0.433293	0.438337	0.35560282	-	0.438
49.3981	0.396877	0.438362	0.31472263	-	0.438
2761.001	0.42737	0.43844	0.14793094	-	0.438
3148.032	0.438579	0.415379	0.3588424	-	0.439
2264.876	0.348319	0.438588	0.3540516	-	0.439
1677.171	0.43286	0.438614	0.15681762	-	0.439
149.725	0.438677	0.364957	0.16424244	-	0.439
1756.988	0.433189	0.439167	0.26601742	-	0.439
9530.005	0.231876	0.418845	0.43919855	-	0.439
995.1155	0.311755	0.439248	0.34660851	-	0.439
4208.478	0.356172	0.336305	0.43925042	-	0.439
67.5478	0.339609	0.230146	0.4392978	-	0.439
1446.573	0.404521	0.439484	0.13389822	-	0.439
127.9116	0.414856	0.422403	0.43964113	-	0.440
6744.523	0.439819	0.322365	0.35246493	-	0.440
1764.994	0.273607	0.251786	0.43989142	-	0.440



218.6675	0.439946	0.267646	0.19697623	-	0.440
9996.32	0.440136	0.348676	0.2147672	-	0.440
2543.664	0.43077	0.440183	0.25568613	-	0.440
12593.3	0.440211	0.389739	0.20906359	-	0.440
627.8875	0.423341	0.440242	0.27745655	-	0.440
5717.584	0.189047	0.440343	0.42086967	-	0.440
4563.064	0.408388	0.440434	0.22463941	-	0.440
3812.988	0.440543	0.334179	0.26236681	-	0.441
909.0875	0.440599	0.388135	0.13885319	-	0.441
5180.645	0.440602	0.350816	0.25450853	-	0.441
4677.849	0.363994	0.344406	0.44067781	-	0.441
1006.237	0.440767	0.384798	0.18183162	-	0.441
1229.481	0.440812	0.40585	0.19498099	-	0.441
8185.598	0.440987	0.380838	0.12884209	-	0.441
1773.984	0.290492	0.299152	0.44101826	+	0.441
255.8555	0.279593	0.372124	0.44104387	-	0.441
5782.02	0.441058	0.345813	0.07628947	-	0.441
1552.24	0.430572	0.417745	0.44119118	-	0.441
270.8288	0.337004	0.234763	0.44120677	-	0.441
18280.9	0.367523	0.441278	0.26010219	-	0.441
43.7557	0.378918	0.257711	0.44150591	-	0.442
679.7774	0.441516	0.344825	0.14966811	-	0.442
3668.798	0.287531	0.441759	0.24250057	-	0.442
562.4808	0.413054	0.434859	0.44181899	-	0.442
140.49	0.359809	0.441828	0.25857285	-	0.442
190.3675	0.345394	0.441908	0.36165417	-	0.442
2071.262	0.300122	0.29222	0.44209266	-	0.442
50.2998	0.442141	0.415551	0.26383604	-	0.442
833.1589	0.442271	0.339133	0.28563759	-	0.442
94.1877	0.442275	0.422316	0.18454214	-	0.442
826.2955	0.44228	0.351659	0.42017595	+	0.442
1134.804	0.442312	0.410541	0.24151626	-	0.442
112.5635	0.442338	0.390115	0.2191252	-	0.442
90.755	0.442364	0.4275	0.2470222	-	0.442
108.8915	0.195197	0.293577	0.4424046	-	0.442
266.0153	0.324961	0.442415	0.18039113	-	0.442
3865.982	0.190761	0.136703	0.44249242	-	0.442
551.8815	0.218002	0.387346	0.44259411	-	0.443
27.0035	0.389948	0.284202	0.44265003	-	0.443
143.4561	0.442685	0.323177	0.32851932	-	0.443
858.5361	0.442793	0.433502	0.21501193	-	0.443
567.1494	0.442864	0.411695	0.18375317	-	0.443
5377.555	0.442978	0.363952	0.39446795	-	0.443
144.2212	0.373772	0.443016	0.37440543	-	0.443
180.4275	0.230101	0.196039	0.4434773	-	0.443
12772.97	0.424502	0.443572	0.28908789	-	0.444
1917.812	0.400051	0.398829	0.44357514	-	0.444
247.181	0.349225	0.44361	0.23163795	-	0.444
6055.014	0.443655	0.366561	0.10511446	-	0.444
505.357	0.443671	0.325495	0.13803212	-	0.444
294.8655	0.296998	0.443679	0.09947993	-	0.444
12627.92	0.443704	0.398875	0.40088383	+	0.444
77.4055	0.443712	0.308733	0.17018429	+	0.444

2114.969	0.443865	0.406786	0.11969984	-	0.444
1528.06	0.354666	0.443912	0.08092283	-	0.444
4419.922	0.274947	0.443923	0.39323547	-	0.444
171.4075	0.202699	0.239514	0.44410134	-	0.444
1302.484	0.425277	0.444239	0.34403315	-	0.444
63.4641	0.247878	0.444293	0.3054467	-	0.444
54.4449	0.444392	0.349809	0.25011525	-	0.444
22186.78	0.444584	0.344219	0.14547102	-	0.445
1606.863	0.419772	0.444975	0.04229464	-	0.445
769.2595	0.444995	0.327325	0.30578953	-	0.445
234.0054	0.339503	0.445136	0.36440826	-	0.445
1517.266	0.204078	0.445192	0.262431	-	0.445
23309.25	0.445222	0.34623	0.30991401	-	0.445
3367.522	0.445378	0.445127	0.31940746	-	0.445
5784.447	0.439401	0.445476	0.29798749	-	0.445
9186.207	0.349026	0.445519	0.36530829	-	0.446
8655.323	0.445706	0.382793	0.29535344	-	0.446
3893.567	0.211406	0.445826	0.40481583	-	0.446
376.0604	0.445869	0.406581	0.12095743	-	0.446
3514.395	0.158832	0.445907	0.28551132	-	0.446
413.9855	0.37981	0.446009	0.30144413	-	0.446
130.9539	0.446014	0.428026	0.07959289	-	0.446
1200.09	0.446037	0.422912	0.14756691	-	0.446
7430.138	0.446349	0.440642	0.20625453	-	0.446
703.3038	0.334905	0.446363	0.09014881	-	0.446
945.6895	0.403052	0.446455	0.11766388	-	0.446
10987.65	0.446755	0.438605	0.40199064	-	0.447
150.451	0.446817	0.389463	0.2643452	-	0.447
1631.145	0.203865	0.325578	0.44684115	+	0.447
93.9055	0.181918	0.44685	0.12610337	-	0.447
4114.166	0.349562	0.446882	0.1075449	-	0.447
460.9835	0.212356	0.382544	0.44690537	-	0.447
62.5024	0.447024	0.436324	0.38869547	-	0.447
3505.24	0.447118	0.383488	0.1703804	-	0.447
6474.672	0.447144	0.334548	0.080681	-	0.447
251.6854	0.422986	0.447157	0.23347997	-	0.447
2596.203	0.447372	0.444819	0.32874295	-	0.447
298.3175	0.439697	0.447468	0.10393457	-	0.447
1201.798	0.344538	0.447619	0.2789564	-	0.448
13749.68	0.447635	0.423226	0.30990362	-	0.448
895.0855	0.447743	0.424289	0.18096986	-	0.448
1809.322	0.400643	0.447787	0.16383794	-	0.448
984.4115	0.397867	0.317421	0.44779394	-	0.448
3721.544	0.448032	0.400519	0.26026177	-	0.448
86.1013	0.448125	0.425775	0.30208719	-	0.448
142.7048	0.372567	0.377537	0.44821267	-	0.448
4386.698	0.200994	0.198997	0.44824917	-	0.448
4333.224	0.448507	0.355988	0.24698304	-	0.449
7499.668	0.354506	0.448507	0.23837877	-	0.449
48.1462	0.430158	0.448775	0.42354537	-	0.449
3358.376	0.36857	0.448942	0.35809441	-	0.449
100.2135	0.449048	0.428953	0.41973387	-	0.449
645.6146	0.449088	0.38262	0.30032081	-	0.449

31778.12	0.449098	0.442968	0.2369723	-	0.449
142.1615	0.449238	0.369884	0.39413906	-	0.449
249.0989	0.449368	0.342553	0.18430752	-	0.449
196.9975	0.283054	0.251466	0.44943159	-	0.449
4550.26	0.4495	0.343908	0.38095662	-	0.450
8858.56	0.402738	0.367825	0.4495561	-	0.450
5012.599	0.449631	0.3811	0.33655468	+	0.450
9187.63	0.426061	0.449714	0.44217412	-	0.450
89.7435	0.429975	0.449829	0.18248675	-	0.450
307.3215	0.449982	0.26907	0.17103034	-	0.450
313.9595	0.449996	0.262714	0.02287492	-	0.450
6096.888	0.450086	0.412612	0.36810755	+	0.450
789.0912	0.450267	0.404436	0.36458017	-	0.450
1198.448	0.209846	0.45035	0.21624268	-	0.450
31.3166	0.450382	0.211032	0.29401979	-	0.450
6247.542	0.450456	0.426291	0.1212553	-	0.450
969.4395	0.450533	0.326264	0.07284797	-	0.451
55.8815	0.450586	0.380128	0.44449594	-	0.451
3576.723	0.365984	0.450612	0.25658391	-	0.451
2445.116	0.450713	0.433829	0.22275901	-	0.451
9305.26	0.434053	0.450728	0.10160593	-	0.451
1056.706	0.332625	0.448768	0.4507287	-	0.451
1004.881	0.33231	0.420146	0.45096651	-	0.451
1281.435	0.451132	0.349786	0.13679746	-	0.451
8131.798	0.425385	0.435536	0.45114642	-	0.451
2378.8	0.451211	0.420229	0.14697475	-	0.451
289.9975	0.395313	0.451352	0.42595367	-	0.451
40.2856	0.451426	0.301568	0.26474472	-	0.451
1090.686	0.437513	0.410441	0.45157426	-	0.452
448.1973	0.451576	0.350347	0.15467675	-	0.452
1971.721	0.451689	0.327866	0.0419702	-	0.452
199.3135	0.451776	0.418985	0.31637596	-	0.452
7424.508	0.451936	0.428101	0.40262432	-	0.452
5640.139	0.451962	0.379473	0.28302	+	0.452
217.8615	0.207778	0.328088	0.45200047	-	0.452
141.5915	0.45207	0.311244	0.20542335	-	0.452
1389.122	0.308156	0.452104	0.19601849	-	0.452
425.8735	0.452254	0.336518	0.09453535	-	0.452
8547.154	0.229637	0.406102	0.45228151	-	0.452
41.0475	0.361076	0.423638	0.45238809	-	0.452
35.7971	0.028473	0.055836	0.45241654	-	0.452
46.3177	0.244631	0.452467	0.22709677	-	0.452
3288.478	0.431732	0.452506	0.08963586	-	0.453
324.4235	0.401499	0.452515	0.26415287	-	0.453
379.0835	0.452597	0.382369	0.34381343	-	0.453
2541.652	0.452643	0.427231	0.35606278	-	0.453
253.0655	0.452706	0.442797	0.16772772	+	0.453
1493.568	0.303047	0.452738	0.24457775	-	0.453
4354.216	0.432101	0.452967	0.09429384	-	0.453
446.4255	0.453165	0.392848	0.12527264	-	0.453
68.7037	0.347151	0.301121	0.45331183	-	0.453
1897.929	0.375948	0.325656	0.45332435	-	0.453
1219.966	0.235244	0.45337	0.22265999	-	0.453

3659.296	0.430949	0.453447	0.09095333	-	0.453
7472.299	0.453587	0.401826	0.31067755	-	0.454
2328.107	0.453624	0.35114	0.21401916	-	0.454
174.0904	0.453688	0.291915	0.20429329	-	0.454
260.9348	0.453781	0.433877	0.09622212	-	0.454
192.9175	0.453799	0.346543	0.19504659	-	0.454
79.6959	0.254994	0.453879	0.22160362	-	0.454
188.0475	0.453923	0.336567	0.38226459	-	0.454
583.7028	0.197155	0.453935	0.11474658	-	0.454
1630.197	0.273297	0.453979	0.18879036	-	0.454
934.0435	0.026215	0.453989	0.17286722	-	0.454
3745.603	0.427725	0.39055	0.45407784	-	0.454
692.7415	0.454125	0.436397	0.29924005	-	0.454
9451.914	0.454368	0.344369	0.21325559	-	0.454
3144.805	0.411852	0.45449	0.13297643	-	0.454
1569.489	0.454695	0.334823	0.16793821	-	0.455
4976.696	0.45478	0.353511	0.18966105	-	0.455
7196.626	0.454821	0.380962	0.29858917	-	0.455
194.7555	0.454886	0.342095	0.35919345	-	0.455
2065.692	0.444004	0.350848	0.45490989	-	0.455
455.2458	0.359614	0.455011	0.14008301	-	0.455
2438.488	0.455052	0.391009	0.28027107	-	0.455
258.1557	0.367163	0.45514	0.21513296	-	0.455
207.9295	0.298831	0.455159	0.22816772	-	0.455
896.7075	0.442741	0.455215	0.17654363	-	0.455
14289.5	0.426215	0.455233	0.00934083	-	0.455
10757.63	0.434179	0.455264	0.11860956	-	0.455
5380.65	0.440242	0.455436	0.39363789	-	0.455
93.5815	0.455457	0.193515	0.4359601	-	0.455
15749.81	0.406149	0.455609	0.40871321	-	0.456
5309.358	0.406507	0.455636	0.02811084	-	0.456
1661.506	0.337637	0.455636	0.04201587	-	0.456
4068.037	0.342256	0.22759	0.45574297	-	0.456
31.1579	0.272615	0.23237	0.45582982	-	0.456
9404.42	0.455831	0.414481	0.33124315	-	0.456
47.7677	0.455842	0.078425	0.28095345	+	0.456
1191.64	0.445606	0.455888	0.35374583	-	0.456
7322.585	0.177328	0.45594	0.40212431	-	0.456
449.3015	0.422038	0.456035	0.11042385	-	0.456
5303.992	0.456081	0.44178	0.41263631	-	0.456
4226.054	0.336497	0.456135	0.34136133	-	0.456
390.7335	0.44887	0.456183	0.17714248	-	0.456
231.3318	0.433864	0.456186	0.27213855	-	0.456
71.6296	0.220112	0.45638	0.38012498	-	0.456
88.6215	0.456533	0.179607	0.22082565	-	0.457
1975.67	0.424323	0.456578	0.24677549	-	0.457
201.9435	0.456632	0.324654	0.42920866	-	0.457
10392.55	0.442029	0.456704	0.08069964	-	0.457
661.9775	0.439919	0.456755	0.26470008	-	0.457
3466.9	0.456923	0.375432	0.35062378	-	0.457
113.5335	0.416387	0.319557	0.45697966	-	0.457
981.8735	0.457121	0.364823	0.39364287	-	0.457
38764.35	0.457238	0.44167	0.31547038	-	0.457

1402.972	0.457257	0.403905	0.43452857	-	0.457
205.2858	0.347903	0.457275	0.13512235	-	0.457
3585.356	0.184165	0.446027	0.45735423	-	0.457
3298.939	0.428786	0.457621	0.29732226	-	0.458
407.2475	0.330282	0.457692	0.16212402	-	0.458
207.3994	0.457878	0.389631	0.27114447	-	0.458
14138.46	0.154009	0.458055	0.01152357	-	0.458
525.5235	0.458135	0.398956	0.26898036	-	0.458
351.1885	0.458257	0.37474	0.31487221	-	0.458
680.6935	0.458301	0.333332	0.125621	-	0.458
706.2918	0.449971	0.458402	0.13515306	-	0.458
5641.76	0.458464	0.44814	0.4133429	-	0.458
3741.668	0.268053	0.458536	0.22807701	-	0.459
1236.906	0.458565	0.458028	0.32406462	-	0.459
381.2034	0.447421	0.458598	0.26053886	-	0.459
947.2353	0.458723	0.418562	0.38435149	-	0.459
696.7429	0.458753	0.453546	0.39109993	-	0.459
182.3175	0.388447	0.458764	0.21726658	-	0.459
302.0078	0.458861	0.288348	0.12315609	-	0.459
10514.27	0.405739	0.292862	0.45889735	-	0.459
13864.32	0.428502	0.458948	0.02926278	-	0.459
153.1455	0.459452	0.451195	0.12816505	-	0.459
27.0561	0.423021	0.459496	0.26071755	-	0.459
740.9127	0.318406	0.459572	0.04063934	-	0.460
131.0375	0.322277	0.440389	0.459586	-	0.460
17360.15	0.459788	0.384715	0.08157415	-	0.460
3138.412	0.459901	0.309761	0.15013388	-	0.460
5250.32	0.460012	0.415436	0.34518612	+	0.460
475.6675	0.460038	0.425375	0.27032139	-	0.460
255.3084	0.42022	0.460149	0.15875271	-	0.460
3515.98	0.460199	0.404138	0.42683824	-	0.460
6687.12	0.322461	0.460293	0.4278696	-	0.460
187.0215	0.302193	0.460335	0.07227832	-	0.460
74.7575	0.232899	0.385685	0.46034846	-	0.460
32.0823	0.374724	0.414323	0.46066834	-	0.461
2070.124	0.460763	0.416253	0.13524966	-	0.461
1003.134	0.460775	0.456422	0.31021594	-	0.461
31.6089	0.416183	0.277637	0.46081642	-	0.461
1485.988	0.436903	0.460832	0.15311009	-	0.461
297.8248	0.452114	0.460866	0.14579914	-	0.461
3770.302	0.338305	0.460914	0.26811104	-	0.461
301.1975	0.44354	0.460965	0.39404344	-	0.461
167.1087	0.460968	0.377323	0.27305879	-	0.461
288.4035	0.301551	0.208101	0.46104676	-	0.461
2330.076	0.461067	0.385226	0.12019945	-	0.461
134.4755	0.46112	0.43959	0.199446	-	0.461
996.3535	0.461135	0.362207	0.33666194	-	0.461
1165.004	0.461171	0.455547	0.22511979	-	0.461
5227.858	0.430775	0.407261	0.4612642	-	0.461
16727.39	0.461317	0.443141	0.3451108	-	0.461
3756.051	0.461381	0.434983	0.40670357	+	0.461
427.9552	0.461614	0.323586	0.15322609	-	0.462
5419.322	0.418786	0.461651	0.08638673	-	0.462

2569.102	0.428258	0.420384	0.46171142	-	0.462
617.6714	0.461759	0.461058	0.24898271	-	0.462
28.873	0.252421	0.37	0.46177398	-	0.462
4156.11	0.396601	0.414726	0.46207231	-	0.462
5061.258	0.462087	0.40917	0.30130091	-	0.462
11981.77	0.46215	0.365482	0.33804566	-	0.462
37.569	0.462174	0.29441	0.43036812	-	0.462
196.2015	0.462328	0.414018	0.26063002	-	0.462
2505.612	0.437006	0.394095	0.46234741	-	0.462
146.4415	0.341837	0.241659	0.46244063	-	0.462
8748.966	0.46269	0.457186	0.41764269	-	0.463
5128.622	0.462876	0.371449	0.14344077	-	0.463
2309.044	0.462981	0.40805	0.06901018	-	0.463
1049.252	0.463105	0.290765	0.10132699	-	0.463
1864.004	0.33408	0.339536	0.46313733	-	0.463
113.0401	0.217336	0.454206	0.46321261	-	0.463
10140.01	0.463213	0.363911	0.27317188	-	0.463
153.8735	0.463226	0.290915	0.10418818	-	0.463
297.7887	0.463244	0.260714	0.10826401	+	0.463
1702.044	0.463338	0.450721	0.43719535	-	0.463
3426.232	0.433995	0.463484	0.28527772	-	0.463
3638.602	0.463512	0.401129	0.45713582	-	0.464
1326.355	0.463563	0.361316	0.1054857	-	0.464
1746.729	0.387328	0.463567	0.38262185	-	0.464
3515.688	0.463635	0.418438	0.25890277	-	0.464
65.6853	0.404542	0.463725	0.39389178	-	0.464
5971.978	0.436473	0.358885	0.46379436	-	0.464
128.913	0.463845	0.29579	0.19268111	-	0.464
8494.094	0.46388	0.439544	0.2752161	-	0.464
10408.56	0.404366	0.463916	0.15669346	-	0.464
445.4448	0.439159	0.464062	0.4619596	-	0.464
67.9297	0.464102	0.43802	0.32244217	-	0.464
747.5815	0.4643	0.411293	0.19294686	-	0.464
960.5446	0.221501	0.464411	0.40929	-	0.464
699.6955	0.420015	0.352884	0.46446133	-	0.464
1099.523	0.397117	0.464569	0.23687965	-	0.465
717.0506	0.170703	0.27106	0.46472522	-	0.465
650.545	0.464754	0.412135	0.22408212	-	0.465
2848.898	0.464836	0.415582	0.07522024	-	0.465
1496.492	0.464845	0.358853	0.39298152	-	0.465
6998.202	0.464845	0.422535	0.37650351	-	0.465
934.3095	0.42223	0.453344	0.46489252	-	0.465
12168.34	0.446966	0.465029	0.35055377	-	0.465
979.7209	0.35023	0.465257	0.43583351	-	0.465
2094.909	0.372123	0.465489	0.27897744	-	0.465
719.3567	0.27851	0.290698	0.4655105	-	0.466
25.1907	0.387399	0.398199	0.46562422	-	0.466
7235.127	0.424916	0.465725	0.08009583	-	0.466
77.1615	0.363031	0.158052	0.46576725	-	0.466
478.238	0.465799	0.438165	0.43887374	-	0.466
438.0075	0.465887	0.416997	0.30519706	-	0.466
384.4935	0.270188	0.404787	0.46645652	-	0.466
1821.378	0.46653	0.389844	0.21178998	-	0.467

1407.216	0.466551	0.428123	0.06327929	-	0.467
4398.664	0.466677	0.366873	0.21142911	-	0.467
60.5369	0.466746	0.438536	0.2258292	-	0.467
6204.785	0.441832	0.466876	0.24929527	-	0.467
8901.914	0.466962	0.425718	0.42752935	-	0.467
2358.963	0.46697	0.36402	0.43959216	-	0.467
521.8095	0.12884	0.146661	0.46712354	-	0.467
102.7334	0.467226	0.37038	0.42918272	-	0.467
70.2356	0.306764	0.467302	0.22918577	-	0.467
1022.529	0.467331	0.416702	0.22371342	-	0.467
7327.182	0.298393	0.467358	0.24600446	-	0.467
2079.57	0.467359	0.388538	0.39245231	-	0.467
6299.496	0.318707	0.363761	0.46738148	-	0.467
91.7115	0.467392	0.31454	0.45309149	-	0.467
16430.77	0.278766	0.467401	0.28379831	-	0.467
172.4755	0.467477	0.19595	0.13116472	-	0.467
18.174	0.336409	0.467505	0.44157038	-	0.468
147.6015	0.467525	0.433599	0.25080572	-	0.468
1097.376	0.452382	0.467596	0.27439423	-	0.468
5211.528	0.467683	0.31272	0.22657451	-	0.468
1331.436	0.262061	0.467847	0.21012621	-	0.468
33458.9	0.342349	0.467955	0.22879052	-	0.468
7799.74	0.468088	0.449183	0.35251915	-	0.468
194.8595	0.468178	0.354161	0.40279278	-	0.468
7256.396	0.46818	0.449114	0.25476748	-	0.468
1356.845	0.292241	0.468229	0.42943713	-	0.468
518.4515	0.385255	0.468264	0.41372028	-	0.468
1191.684	0.424346	0.46835	0.19496913	-	0.468
4721.37	0.468556	0.376785	0.35791045	-	0.469
7904.308	0.468587	0.43187	0.28784172	-	0.469
1248.801	0.468602	0.365533	0.20859323	-	0.469
2811.372	0.17935	0.46865	0.35217481	-	0.469
214.3181	0.468707	0.212883	0.34882448	-	0.469
1578.19	0.46873	0.274124	0.2125521	-	0.469
118.9449	0.43534	0.468759	0.23806906	-	0.469
1170.922	0.468926	0.361515	0.18771981	-	0.469
96.2215	0.25486	0.316201	0.46909371	-	0.469
27.3155	0.180784	0.460085	0.46913291	-	0.469
1734.225	0.394673	0.469255	0.37298052	-	0.469
45.531	0.248796	0.469302	0.20935187	-	0.469
6157.414	0.469316	0.363723	0.46626912	+	0.469
315.6886	0.398422	0.389945	0.46937869	-	0.469
8839.261	0.469387	0.412944	0.1160368	-	0.469
7605.908	0.139993	0.469398	0.45105775	-	0.469
6629.744	0.466227	0.453558	0.46943825	-	0.469
548.3533	0.469463	0.403215	0.37394778	-	0.469
5527.344	0.46815	0.469472	0.2257134	-	0.469
914.2075	0.469598	0.453953	0.21013063	-	0.470
2198.579	0.469604	0.387454	0.23300504	-	0.470
96.7055	0.446987	0.469609	0.30416677	-	0.470
60.6529	0.224394	0.469619	0.43089613	-	0.470
1778.346	0.123943	0.469635	0.33037197	-	0.470
8250.44	0.369254	0.334622	0.46963625	-	0.470

2271.088	0.469732	0.390011	0.32710193	-	0.470
3338.562	0.458871	0.422587	0.46974576	-	0.470
162.2252	0.469756	0.241137	0.31803382	-	0.470
1709.31	0.429839	0.449616	0.46981164	-	0.470
2517.355	0.462746	0.469828	0.3961044	-	0.470
1604.021	0.296605	0.422897	0.47027193	-	0.470
400.7909	0.470283	0.440349	0.31527038	-	0.470
520.3135	0.470357	0.350291	0.24215132	-	0.470
328.3035	0.470411	0.464292	0.41956147	-	0.470
6837.49	0.382608	0.470522	0.08488458	-	0.471
195.5743	0.470654	0.445647	0.46145889	-	0.471
2746.159	0.47099	0.420226	0.2527485	+	0.471
3840.567	0.414668	0.47099	0.18847412	-	0.471
6621.3	0.221189	0.427403	0.47104341	-	0.471
146.9195	0.471059	0.427707	0.4514268	-	0.471
148.7615	0.471168	0.434604	0.2563701	-	0.471
1851.51	0.338112	0.471179	0.32899075	-	0.471
3133.271	0.471273	0.442177	0.18311049	-	0.471
1221.598	0.471288	0.442191	0.39679968	-	0.471
8659.064	0.404138	0.471341	0.023478	-	0.471
9616.693	0.471356	0.449945	0.10753219	-	0.471
536.3495	0.471357	0.376711	0.23231326	-	0.471
4000.44	0.471398	0.352669	0.20282881	-	0.471
1997.798	0.4714	0.417653	0.46865791	-	0.471
1169.784	0.38588	0.471412	0.15670207	-	0.471
342.2595	0.471419	0.425748	0.38193681	-	0.471
150.7115	0.211879	0.406803	0.47160038	-	0.472
83.7415	0.471621	0.358887	0.26549799	-	0.472
2925.329	0.112165	0.378799	0.47173087	-	0.472
760.7389	0.421888	0.471759	0.07220795	-	0.472
4291.898	0.44061	0.400177	0.47185272	-	0.472
181.9335	0.409345	0.471947	0.32458838	-	0.472
193.6778	0.472125	0.43149	0.21558227	-	0.472
56.2552	0.472167	0.437882	0.39671355	-	0.472
77.0811	0.454397	0.472193	0.42284944	-	0.472
3556.821	0.402153	0.47224	0.20977944	-	0.472
74.4863	0.467692	0.282086	0.47227074	-	0.472
1391.464	0.415078	0.472562	0.15984717	-	0.473
142.6881	0.472735	0.309961	0.34014609	-	0.473
6328.48	0.440396	0.393078	0.47283735	-	0.473
6788.545	0.4729	0.454246	0.32136306	-	0.473
1024.64	0.418056	0.472964	0.4675015	-	0.473
522.8155	0.473003	0.403335	0.42704032	-	0.473
17862.16	0.473146	0.42566	0.32220088	-	0.473
97.6375	0.45031	0.473181	0.40745513	-	0.473
5020.992	0.432526	0.374534	0.47321319	-	0.473
245.1175	0.360604	0.295817	0.47327302	-	0.473
699.1435	0.457958	0.473291	0.29947929	-	0.473
276.4955	0.38658	0.473304	0.23929901	-	0.473
6004.009	0.473338	0.420018	0.36617693	-	0.473
471.1895	0.473427	0.416806	0.27332846	-	0.473
109.9055	0.47347	0.427945	0.3704346	-	0.473
4614.207	0.473527	0.451611	0.0949913	-	0.474



88.4755	0.196008	0.347934	0.47355596	-	0.474
3727.223	0.473629	0.453723	0.30376594	-	0.474
1825.242	0.433495	0.422851	0.47376277	-	0.474
191.3395	0.136531	0.27703	0.473818	-	0.474
456.1435	0.435208	0.473932	0.13872433	-	0.474
72.6256	0.134911	0.474019	0.31652062	-	0.474
3734.01	0.433709	0.446189	0.47406561	-	0.474
3637.648	0.190113	0.474082	0.29550024	-	0.474
2855.641	0.250386	0.474198	0.31152573	-	0.474
2521.688	0.474283	0.461068	0.28276886	-	0.474
203.5875	0.474558	0.254312	0.28678529	-	0.475
17569.1	0.474639	0.372894	0.35615067	-	0.475
698.607	0.45664	0.474759	0.14321285	-	0.475
1059.257	0.47477	0.382401	0.1749194	-	0.475
18150.2	0.474802	0.470257	0.26849107	-	0.475
264.3215	0.409439	0.474827	0.40186477	-	0.475
1373.976	0.474854	0.449738	0.22046167	-	0.475
538.5979	0.469259	0.474906	0.31091005	-	0.475
80.1095	0.449322	0.422351	0.47494617	-	0.475
6309.584	0.475035	0.444139	0.42985999	-	0.475
1429.118	0.443943	0.393883	0.47510404	-	0.475
13801.36	0.475137	0.464808	0.33933367	-	0.475
11995.52	0.47517	0.449419	0.42181125	-	0.475
471.8113	0.475188	0.359227	0.27019171	-	0.475
49.4345	0.381093	0.406813	0.47519647	-	0.475
278.2648	0.475223	0.307029	0.11698102	-	0.475
81.8155	0.475293	0.276575	0.12532466	-	0.475
274.9475	0.475442	0.325756	0.23136853	-	0.475
777.0251	0.457144	0.475478	0.38838835	-	0.475
8180.22	0.426884	0.475489	0.29675506	-	0.475
973.4652	0.336722	0.307667	0.47566518	-	0.476
137.0876	0.329134	0.47574	0.11833674	-	0.476
298.7335	0.183625	0.475884	0.29953487	-	0.476
210.4675	0.475909	0.261076	0.21010037	-	0.476
924.1775	0.475909	0.362892	0.22462081	-	0.476
1125.375	0.424719	0.462132	0.47594766	-	0.476
877.8616	0.475979	0.455476	0.17137701	-	0.476
290.1335	0.476062	0.387437	0.20219623	-	0.476
30239.31	0.369491	0.476111	0.10723774	-	0.476
557.108	0.306542	0.324407	0.47611145	+	0.476
9126.892	0.433377	0.47613	0.10597579	-	0.476
4904.974	0.476181	0.395044	0.15788944	-	0.476
533.1915	0.467577	0.476239	0.26709803	-	0.476
31054.71	0.476353	0.45208	0.37855238	-	0.476
2009.496	0.394907	0.476379	0.11263598	-	0.476
49.1169	0.07423	0.141367	0.47639814	-	0.476
10149.71	0.476416	0.454617	0.23556965	-	0.476
36.5636	0.078313	0.263906	0.47644105	-	0.476
845.3895	0.476486	0.476399	0.24622911	-	0.476
466.2375	0.035719	0.47656	0.01490056	-	0.477
38.1116	0.476603	0.337772	0.38338196	-	0.477
8597.256	0.476723	0.449919	0.26068784	-	0.477
507.5417	0.476745	0.338171	0.13321428	-	0.477

6023.352	0.415551	0.465173	0.47683312	-	0.477
6516.708	0.376482	0.476848	0.0246637	-	0.477
529.7695	0.402187	0.44245	0.47690477	-	0.477
1430.053	0.265913	0.476953	0.42305143	-	0.477
1921.201	0.463	0.477091	0.40173813	-	0.477
755.5615	0.312374	0.477107	0.43873265	-	0.477
2201.53	0.477146	0.390926	0.19492698	-	0.477
2408.256	0.436056	0.47725	0.17382317	-	0.477
17.655	0.189525	0.477272	0.43997734	-	0.477
3030.984	0.477349	0.460167	0.35423205	-	0.477
291.0615	0.477372	0.412483	0.2935682	-	0.477
1630.096	0.303611	0.477412	0.13020433	-	0.477
2327.142	0.477549	0.466959	0.29707411	-	0.478
184.5239	0.477693	0.362116	0.44188043	-	0.478
15920.27	0.477715	0.429979	0.35848896	+	0.478
5572.722	0.437317	0.330458	0.47777044	-	0.478
440.9057	0.477801	0.289756	0.17587774	-	0.478
2860.431	0.477807	0.458554	0.31817147	-	0.478
17880.98	0.46375	0.477971	0.33209938	-	0.478
19500.62	0.477986	0.406967	0.10439923	-	0.478
161.0453	0.387391	0.47803	0.30921797	-	0.478
310.5015	0.478098	0.418451	0.11953082	-	0.478
2896.46	0.461592	0.478129	0.15796831	-	0.478
364.4015	0.045247	0.049763	0.47820193	-	0.478
195.0075	0.478226	0.190417	0.10862659	-	0.478
478.7575	0.379995	0.47827	0.23764139	-	0.478
106.841	0.319556	0.478341	0.44487416	-	0.478
5719.03	0.472943	0.478459	0.36982909	-	0.478
338.1415	0.470971	0.478479	0.28439396	-	0.478
4291.88	0.171202	0.457367	0.47850679	-	0.479
123.0435	0.220334	0.345598	0.47854539	-	0.479
93.0999	0.37567	0.478644	0.37751598	-	0.479
5016.238	0.478671	0.341417	0.17125236	+	0.479
4237.258	0.478815	0.46942	0.40077758	-	0.479
8551.633	0.314699	0.478868	0.21255233	-	0.479
1129.904	0.293967	0.478883	0.31558403	-	0.479
369.6261	0.478925	0.354857	0.11310619	-	0.479
202.2814	0.364896	0.325123	0.4790826	-	0.479
834.2567	0.310444	0.345623	0.47918524	-	0.479
189.0795	0.479233	0.454292	0.22247838	-	0.479
1225.989	0.479296	0.426014	0.24442438	+	0.479
162.4363	0.479301	0.356229	0.22281165	-	0.479
53.8498	0.184713	0.111579	0.47932211	-	0.479
34.3645	0.333996	0.095341	0.47935224	-	0.479
52.0257	0.311276	0.477822	0.47940345	-	0.479
954.6275	0.4796	0.406273	0.47691691	-	0.480
3851.063	0.405031	0.479693	0.15312418	-	0.480
1035.64	0.479704	0.453334	0.04612454	-	0.480
4578.588	0.373845	0.479804	0.03457868	-	0.480
3562.196	0.347441	0.30864	0.4798336	-	0.480
5577.782	0.479842	0.479016	0.19476172	-	0.480
441.0853	0.449144	0.479865	0.25196374	-	0.480
1388.69	0.284999	0.479937	0.0701838	-	0.480



592.2255	0.381928	0.48013	0.41796208	-	0.480
542.9875	0.36219	0.48016	0.17869933	-	0.480
1164.38	0.480224	0.471682	0.31546545	-	0.480
6602.342	0.265055	0.480365	0.33737054	-	0.480
557.6475	0.469905	0.480418	0.36037371	-	0.480
542.9255	0.253248	0.122069	0.48044069	-	0.480
2734.328	0.480479	0.476399	0.24578164	-	0.480
134.0935	0.463421	0.480608	0.25345822	-	0.481
351.4419	0.480634	0.360239	0.25708175	-	0.481
8367.356	0.380199	0.348531	0.48063805	-	0.481
307.0797	0.480641	0.309885	0.42295046	-	0.481
3859.142	0.442178	0.464896	0.48064926	-	0.481
6276.717	0.305353	0.231971	0.4807954	-	0.481
263.1315	0.421671	0.480797	0.17454163	-	0.481
377.7535	0.245859	0.37183	0.48084161	-	0.481
83.4359	0.065098	0.48086	0.23258573	-	0.481
5364.898	0.480861	0.406583	0.42264582	-	0.481
179.028	0.426062	0.48088	0.136234	-	0.481
6581.324	0.480403	0.480958	0.31491713	-	0.481
5124.136	0.309094	0.294571	0.48112451	-	0.481
7085.636	0.481327	0.38753	0.28540834	-	0.481
6302.591	0.377293	0.481364	0.20921389	-	0.481
633.1943	0.48138	0.465418	0.3821072	-	0.481
352.3895	0.461069	0.406736	0.48141474	-	0.481
2714.854	0.481593	0.384832	0.14010826	-	0.482
219.4115	0.481594	0.389583	0.21624391	-	0.482
2966.5	0.48163	0.436419	0.20956798	-	0.482
9958.966	0.481657	0.45825	0.32733134	-	0.482
32.8294	0.426821	0.481709	0.33954017	-	0.482
2008.506	0.380434	0.481738	0.38182808	-	0.482
25.7614	0.094378	0.137383	0.48174012	-	0.482
61.9125	0.136519	0.481792	0.27185302	-	0.482
37.0117	0.408362	0.482129	0.2977599	-	0.482
254.6635	0.482219	0.39492	0.23508355	-	0.482
1363.095	0.416449	0.482297	0.31473605	-	0.482
11151.57	0.411745	0.482308	0.23241821	-	0.482
7468.488	0.482394	0.42084	0.35740131	-	0.482
3151.24	0.390628	0.481707	0.48240101	-	0.482
73.2435	0.313952	0.47971	0.48240868	-	0.482
326.6499	0.367662	0.360276	0.4824967	-	0.482
451.3988	0.271427	0.482558	0.13452162	-	0.483
15207.17	0.433128	0.482634	0.4447108	-	0.483
24253.85	0.482818	0.475145	0.3875027	-	0.483
180.2693	0.391789	0.34788	0.48283041	-	0.483
136.7984	0.33796	0.482973	0.1239649	-	0.483
24.6971	0.356547	0.482975	0.38589146	-	0.483
16922.95	0.483072	0.420536	0.44223114	+	0.483
2791.192	0.445722	0.483097	0.11042693	+	0.483
4241.6	0.483202	0.449109	0.01009072	-	0.483
369.4715	0.483231	0.432108	0.27796867	-	0.483
21355.29	0.454418	0.48326	0.24692367	-	0.483
1511.623	0.483451	0.378803	0.34996795	-	0.483
6306.226	0.483496	0.478073	0.29962923	-	0.483

6344.022	0.483629	0.472684	0.30386491	-	0.484
37962	0.48364	0.432453	0.47220407	-	0.484
90.0155	0.483689	0.360688	0.37959574	-	0.484
1362.966	0.214649	0.165048	0.4837815	-	0.484
76.0215	0.483827	0.432654	0.4759351	-	0.484
2272.197	0.472816	0.483895	0.33342862	-	0.484
655.9675	0.483944	0.44184	0.39009341	-	0.484
175.3995	0.422833	0.484021	0.2727676	-	0.484
4295.582	0.421146	0.484176	0.11771575	-	0.484
479.1235	0.484256	0.465897	0.31226083	-	0.484
144.3155	0.365975	0.313526	0.48429725	-	0.484
205.9373	0.484348	0.482587	0.25562732	+	0.484
298.8393	0.484392	0.241398	0.07370517	+	0.484
11864.18	0.484402	0.455596	0.37737084	-	0.484
319.3521	0.190823	0.188067	0.48442299	-	0.484
3455.261	0.145452	0.27262	0.48446686	-	0.484
21346.09	0.484504	0.471671	0.4436923	-	0.485
1129.787	0.181499	0.308602	0.4845104	-	0.485
21.2545	0.235679	0.484523	0.47979487	-	0.485
1704.97	0.484537	0.471102	0.13254284	-	0.485
2864.695	0.331541	0.431145	0.48465393	-	0.485
5567.346	0.409946	0.484839	0.38089283	-	0.485
21.21	0.249748	0.484913	0.47090523	-	0.485
151.2415	0.346587	0.474298	0.48508776	+	0.485
864.0845	0.392117	0.333518	0.48518206	-	0.485
277.6515	0.485257	0.459626	0.1190993	-	0.485
2590.391	0.306235	0.41474	0.48561148	-	0.486
3280.004	0.385595	0.485638	0.03911569	-	0.486
136.3036	0.485776	0.212626	0.18372662	-	0.486
20.1268	0.395962	0.346426	0.48580003	-	0.486
5027.92	0.424076	0.485859	0.21534702	-	0.486
2626.908	0.447797	0.485892	0.43913594	-	0.486
56.8044	0.225006	0.485912	0.14005253	-	0.486
346.4455	0.485946	0.392092	0.14409481	-	0.486
829.0475	0.472549	0.485962	0.17914233	-	0.486
139.8435	0.486058	0.463156	0.43669388	-	0.486
2483.346	0.486231	0.396205	0.32179373	-	0.486
399.1148	0.486253	0.388801	0.21465904	-	0.486
517.1326	0.372699	0.401662	0.48632401	-	0.486
1139.142	0.486367	0.406678	0.35606692	-	0.486
970.3075	0.283265	0.343976	0.48638344	-	0.486
32.8856	0.453934	0.37005	0.48641047	-	0.486
398.7175	0.462218	0.486449	0.26279258	-	0.486
1695.954	0.417222	0.486509	0.23288817	-	0.487
11502.33	0.486551	0.381891	0.00989925	-	0.487
10873.52	0.486701	0.465924	0.28736838	-	0.487
68.7777	0.073047	0.486763	0.36463272	+	0.487
22458.42	0.179833	0.48695	0.01275207	-	0.487
3045.554	0.487297	0.438867	0.27104942	-	0.487
11005.08	0.487377	0.401752	0.37250619	-	0.487
122.7725	0.487404	0.423477	0.46554888	-	0.487
84.6795	0.439919	0.48748	0.30837806	-	0.487
785.9536	0.411439	0.487518	0.2531582	-	0.488

6502.887	0.391134	0.487647	0.4145948	-	0.488
889.2727	0.48765	0.330737	0.15493054	-	0.488
1865.249	0.378878	0.487736	0.47320454	-	0.488
5276.746	0.487806	0.482419	0.28480993	-	0.488
546.4475	0.487827	0.389401	0.2898531	-	0.488
3291.451	0.487846	0.42358	0.24252511	-	0.488
139.1884	0.370547	0.487919	0.43222783	-	0.488
342.8952	0.487975	0.44158	0.44828507	-	0.488
10492.33	0.488119	0.412733	0.2996323	-	0.488
68.0517	0.488146	0.393408	0.33292629	-	0.488
23.5012	0.358263	0.488157	0.38655047	-	0.488
246.3995	0.260116	0.488263	0.1417028	-	0.488
16546.11	0.488313	0.426218	0.48068307	-	0.488
1020.624	0.488317	0.439308	0.11269082	+	0.488
102.9615	0.488387	0.431273	0.33409575	-	0.488
1281.925	0.429187	0.488447	0.06622502	-	0.488
137.2855	0.488505	0.434547	0.3748881	-	0.489
1827.464	0.488523	0.470491	0.37740803	-	0.489
511.8235	0.348758	0.488571	0.17663316	-	0.489
291.4465	0.488595	0.337692	0.40911797	-	0.489
694.7797	0.488611	0.252307	0.17339942	-	0.489
3185.95	0.432093	0.305695	0.48863973	-	0.489
120.6435	0.3366	0.458539	0.48884192	-	0.489
794.3834	0.488943	0.402829	0.23243613	-	0.489
4484.6	0.488989	0.466604	0.28560805	-	0.489
187.3324	0.489063	0.236045	0.14538222	-	0.489
1372.034	0.42587	0.337681	0.4892546	+	0.489
319.0855	0.489257	0.452096	0.25542214	-	0.489
197.524	0.47997	0.48928	0.20764616	-	0.489
49.2206	0.489333	0.443612	0.24645575	-	0.489
1546.574	0.302119	0.489356	0.10996535	-	0.489
803.5115	0.412744	0.489358	0.02783619	-	0.489
5183.826	0.371783	0.489396	0.37114195	-	0.489
646.4953	0.32749	0.489403	0.21047206	-	0.489
4760.286	0.484584	0.40122	0.48942264	-	0.489
57.6963	0.452834	0.489436	0.10604146	-	0.489
330.3484	0.472242	0.486082	0.48951804	-	0.490
14033.69	0.441448	0.454348	0.48955296	-	0.490
203.709	0.489666	0.422764	0.3302937	-	0.490
44.6999	0.489701	0.403931	0.33720433	-	0.490
18.9896	0.323825	0.414894	0.48981021	-	0.490
1280	0.489856	0.270502	0.30508567	-	0.490
5087.11	0.455729	0.418335	0.48988871	-	0.490
1894.27	0.489896	0.395193	0.18521747	-	0.490
4324.67	0.485877	0.489958	0.46700415	-	0.490
1744.28	0.489968	0.487256	0.10249361	-	0.490
5724.586	0.490113	0.430498	0.46521726	-	0.490
2279.886	0.490187	0.434726	0.2467841	-	0.490
834.4195	0.460633	0.490272	0.08065943	-	0.490
62.0345	0.490485	0.23755	0.24483151	-	0.490
4808.896	0.442046	0.490572	0.43967757	-	0.491
866.7635	0.490607	0.373607	0.05611738	-	0.491
24.8566	0.49066	0.412087	0.45247942	-	0.491

100.6955	0.396714	0.490675	0.28775963	-	0.491
237.8435	0.037566	0.044669	0.49072394	-	0.491
3361.068	0.490819	0.280803	0.10139026	+	0.491
90.3386	0.252748	0.229058	0.49083116	-	0.491
1236.742	0.491194	0.477128	0.20232792	-	0.491
1582.054	0.491222	0.436499	0.44314778	-	0.491
579.4715	0.491616	0.294216	0.16707206	-	0.492
6195.409	0.328469	0.238693	0.49168982	-	0.492
7893.412	0.491705	0.426917	0.41109114	-	0.492
4811.88	0.491741	0.469428	0.07593654	-	0.492
68.9617	0.491919	0.288641	0.2773322	-	0.492
378.7175	0.358739	0.491993	0.39737667	-	0.492
12379.08	0.492271	0.430469	0.21287759	+	0.492
110.1759	0.492325	0.386692	0.21280062	-	0.492
55.306	0.226528	0.492327	0.40047011	-	0.492
240.6663	0.492527	0.397502	0.37366345	-	0.493
58.7797	0.492719	0.445056	0.40996637	-	0.493
42.0584	0.401484	0.492795	0.24903943	-	0.493
2616.247	0.334577	0.255197	0.49285096	-	0.493
230.4315	0.492997	0.355718	0.22313529	-	0.493
1382.115	0.493191	0.481993	0.08393093	-	0.493
1147.844	0.493204	0.373374	0.15713945	-	0.493
32399.06	0.419263	0.493278	0.26052022	-	0.493
1231.188	0.490779	0.493451	0.20257735	-	0.493
732.2823	0.493566	0.430769	0.39971948	-	0.494
1350.692	0.318222	0.493582	0.20368345	-	0.494
76.0015	0.493726	0.384821	0.20640382	-	0.494
74.9274	0.295973	0.307138	0.49421573	-	0.494
3898.391	0.494221	0.444651	0.25714184	+	0.494
126.0895	0.382296	0.435797	0.4942632	-	0.494
181.1784	0.494308	0.259662	0.08938814	-	0.494
486.3875	0.444823	0.394141	0.49440436	-	0.494
1090.631	0.453322	0.494442	0.47456693	-	0.494
197.0642	0.494566	0.275695	0.38629188	-	0.495
566.9635	0.494567	0.445886	0.18834669	-	0.495
2689.854	0.476349	0.401951	0.49463558	-	0.495
5292.958	0.482064	0.494645	0.35175332	-	0.495
11615.92	0.351306	0.494765	0.21876976	-	0.495
7477.94	0.37245	0.494818	0.00785373	-	0.495
6454.782	0.471583	0.494877	0.24989808	-	0.495
1651.55	0.474221	0.494877	0.49111271	-	0.495
6095.146	0.267603	0.243464	0.49488097	-	0.495
1651.176	0.494888	0.274574	0.21518336	-	0.495
12127.42	0.48021	0.495003	0.37545549	-	0.495
716.2375	0.494604	0.49502	0.25136006	-	0.495
2156.37	0.495277	0.465671	0.32231732	-	0.495
2352.436	0.495285	0.43139	0.12325222	-	0.495
10184.78	0.495401	0.425626	0.43737922	-	0.495
11256.5	0.49543	0.365015	0.07893819	-	0.495
1301.36	0.428018	0.402125	0.49549414	-	0.495
4659.316	0.434096	0.495529	0.188158	-	0.496
5459.491	0.405374	0.495718	0.18435701	-	0.496
903.8674	0.495796	0.476904	0.44231112	-	0.496

1649.526	0.495836	0.383099	0.11491177	-	0.496
342.9715	0.412369	0.491759	0.49612927	-	0.496
134.9355	0.496157	0.311912	0.15829267	-	0.496
846.0755	0.496177	0.494755	0.42767992	-	0.496
1465.15	0.496236	0.466989	0.19466102	-	0.496
1795.222	0.496262	0.432104	0.21883153	-	0.496
2516.796	0.397967	0.335162	0.49639685	-	0.496
1045.247	0.496467	0.336506	0.20561108	-	0.496
847.137	0.496547	0.481134	0.05223547	-	0.497
2956.959	0.496564	0.465308	0.30405687	-	0.497
5436.386	0.49666	0.44318	0.19355737	-	0.497
3671.528	0.49671	0.492167	0.44897246	-	0.497
296.8142	0.496764	0.181686	0.1794584	-	0.497
1738.052	0.496791	0.412512	0.13265171	-	0.497
10595.79	0.496802	0.487355	0.23200594	-	0.497
4515.034	0.496826	0.446799	0.16299348	-	0.497
170.3315	0.497003	0.421846	0.24438639	-	0.497
2167.078	0.49701	0.416142	0.13120043	-	0.497
1198.335	0.42484	0.47311	0.49705596	-	0.497
4729.193	0.497056	0.381773	0.40675384	-	0.497
30581.82	0.497081	0.477113	0.38756235	+	0.497
2813.528	0.497254	0.452239	0.25254827	-	0.497
90.7255	0.497277	0.302046	0.31907788	-	0.497
6015.461	0.497304	0.421922	0.30150664	-	0.497
2167.454	0.415369	0.42643	0.49737323	-	0.497
220.6352	0.497393	0.328676	0.09099999	-	0.497
38.6416	0.497535	0.395527	0.30953687	-	0.498
2920.284	0.497568	0.421902	0.1498435	-	0.498
1330.475	0.312188	0.304888	0.49760552	-	0.498
2920.73	0.408628	0.335037	0.49764759	-	0.498
220.3255	0.419219	0.497821	0.11622849	+	0.498
9686.35	0.49267	0.497854	0.24695655	-	0.498
4977.421	0.464547	0.498164	0.19945724	-	0.498
3292.036	0.492706	0.498198	0.44691544	-	0.498
7453.457	0.498253	0.468697	0.34166328	-	0.498
3916.45	0.49828	0.459609	0.1142125	-	0.498
4152.338	0.498285	0.385564	0.34791715	-	0.498
1548.1	0.498297	0.345285	0.03796453	-	0.498
4893.31	0.32726	0.498451	0.48104885	-	0.498
1018.617	0.397099	0.498485	0.29149073	-	0.498
7607.866	0.49852	0.450231	0.25565978	-	0.499
3410.022	0.444013	0.49855	0.16105857	-	0.499
63.3702	0.329409	0.249652	0.49856399	-	0.499
20.4978	0.469915	0.498619	0.26075969	-	0.499
194.8545	0.310596	0.248375	0.49870801	-	0.499
4947.375	0.319942	0.498862	0.16386578	-	0.499
263.3867	0.175702	0.498909	0.32903294	-	0.499
73.0132	0.408471	0.498965	0.33680485	-	0.499
6164.536	0.444648	0.499014	0.27012506	-	0.499
3043.68	0.472136	0.496631	0.49907786	-	0.499
174.5255	0.401512	0.296104	0.49912133	-	0.499
25432.93	0.49915	0.465159	0.01486095	-	0.499
1452.099	0.467027	0.442188	0.49917788	-	0.499

2111.664	0.488541	0.49935	0.30857355	-	0.499
1915.729	0.499358	0.491513	0.06124552	-	0.499
929.7872	0.499372	0.435002	0.11210038	-	0.499
3195.341	0.499564	0.485063	0.31822871	-	0.500
103.1275	0.238416	0.229475	0.4995874	-	0.500
257.0747	0.499708	0.449517	0.45503311	-	0.500
729.328	0.49981	0.471044	0.44300795	+	0.500
591.6955	0.268473	0.325271	0.49983395	-	0.500
56.1752	0.362873	0.499867	0.33391603	-	0.500
412.4622	0.499955	0.302191	0.22939144	+	0.500

For Review Only

Dataset S6. Genes expressed at two orders of magnitude higher before the decline of scarless healing.

Chromosome	Gene_ID	Transcript_Id	Gene name	Description	expression E15/E18
chr8	13004	BC065118	Ncan	neurocan, mRNA (cDNA clone MGC:86112 IMAGE:6853	922.73
chr2	76161	BC004791	6330527006	RIKEN cDNA 6330527006 gene, mRNA (cDNA clone MG	850.91
chr15	12300	BC103563	Cacng2	calcium channel, voltage-dependent, gamma subunit 2,	628.57
chr11	14406	BC031762	Gabrg2	gamma-aminobutyric acid (GABA-A) receptor, subunit γ	603.39
chr12	17933	BC094438	Myt1l	myelin transcription factor 1-like, mRNA (cDNA clone M	787.68
chr3	76897	BC052358	Raly1	RALY RNA binding protein-like, mRNA (cDNA clone MGC	572.00
chr7	108071	BC096533	Grm5	glutamate receptor, metabotropic 5, mRNA (cDNA clon	551.43
chrX	237213	BC056342	Glr2	glycine receptor, alpha 2 subunit, mRNA (cDNA clone M	507.32
chr19	18504	BC148232	Pax2	paired box gene 2, mRNA (cDNA clone MGC:161328 IM	563.35
chr7	16353	U69888	lpw	lpw mRNA, partial sequence.	525.40
chr7	15135	BC057014	Hbb-y	hemoglobin Y, beta-like embryonic chain, mRNA (cDNA	467.80
chr14	268755	AK044422	A93001101	adult retina cDNA, RIKEN full-length enriched library, cl	520.78
chr18	19762	BC018267	Rit2	Ras-like without CAAX 2, mRNA (cDNA clone MGC:253C	726.09
chr12	17933	BC131677	Myt1l	myelin transcription factor 1-like, mRNA (cDNA clone M	493.96
chr19	226180	BC018383	Ina	internexin neuronal intermediate filament protein, alph	920.87
chr13	N/A	XM_001474933	N/A	PREDICTED: hypothetical protein LOC100040577 (LOC1	558.35
chr6	108653	BC052078	Rimklb	RIKEN cDNA 4933426K21 gene, mRNA (cDNA clone MG	578.54
chr6	232333	BC059080	Slc6a1	solute carrier family 6 (neurotransmitter transporter, G	656.80
chr7	140919	BC038375	Slc17a6	solute carrier family 17 (sodium-dependent inorganic p	359.31
chr4	15572	AK014133	Elavl4	13 days embryo head cDNA, RIKEN full-length enriched	435.76
chr5	243339	BC067004	Tmem130	transmembrane protein 130, mRNA (cDNA clone MGC:!	415.40
chr11	14799	AK049958	Gria1	adult male hippocampus cDNA, RIKEN full-length enrich	329.63
chr9	N/A	BC056393	N/A	RIKEN cDNA 2600009P04 gene, mRNA (cDNA clone IM/	403.75
chr13	67295	AK161006	Rab3c	15 days embryo head cDNA, RIKEN full-length enriched	310.29
chr12	17933	NM_001093775	Myt1l	myelin transcription factor 1-like (Myt1l), transcript var	415.33
chr18	319211	AK086574	Nol4	15 days embryo head cDNA, RIKEN full-length enriched	338.28
chr2	14417	AK018380	Gad2	glutamic acid decarboxylase 2, mRNA (cDNA clone MGC	373.72
chr6	11922	BC087831	Neurod6	neurogenic differentiation 6, mRNA (cDNA clone MGC:!	469.67
chr4	15572	BC052451	Elavl4	ELAV (embryonic lethal, abnormal vision, Drosophila)-li	297.66
chr5	243339	BC127616	Tmem130	transmembrane protein 130, mRNA (cDNA clone MGC:!	396.62
chr18	319211	AK029800	Nol4	adult male testis cDNA, RIKEN full-length enriched libra	341.58
chr7	110886	AK083185	Gabra5	adult male hippocampus cDNA, RIKEN full-length enrich	299.12
chr5	319807	AB093290	3110047P20	mRNA for mKIAA1239 protein.	251.84
chrX	30052	BC012263	Pcsk1n	proprotein convertase subtilisin/kexin type 1 inhibitor,	343.83
chr3	213262	BC075640	Fstl5	follistatin-like 5, mRNA (cDNA clone MGC:100015 IMAC	306.49
chr15	60597	BC029704	Mapk8ip2	mitogen-activated protein kinase 8 interacting protein :	238.96
chr2	22348	BC052020	Slc32a1	solute carrier family 32 (GABA vesicular transporter), m	248.95
chr18	20451	BC075645	St8sia3	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransfe	234.44
chr4	75426	BC051960	Igfbp1	insulin-like growth factor binding protein-like 1, mRNA	232.82
chr1	227325	BC034634	Dner	delta/notch-like EGF-related receptor, mRNA (cDNA clo	281.52
chr14	18039	BC029203	Nefl	neurofilament, light polypeptide, mRNA (cDNA clone M	250.03
chr12	69952	XM_001476131	2810011L19	PREDICTED: RIKEN cDNA 2810011L19 gene (2810011L1	230.37
chr1	211383	BC070435	Fam123c	RIKEN cDNA 9430069J07 gene, mRNA (cDNA clone MGC	224.33
chr2	16536	AK080597	Kcnq2	10 days neonate cortex cDNA, RIKEN full-length enrich	241.41
chr2	545474	XM_619828	Scrt2	PREDICTED: scratch homolog 2, zinc finger protein (Dro	214.95
chr19	14704	BC029680	Gng3	guanine nucleotide binding protein (G protein), gamma	211.56
chr15	116838	AK129206	Rims2	mRNA for mKIAA0751 protein.	304.21
chr11	14799	BC056397	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1), mRN	328.96
chr2	16536	AK135059	Kcnq2	adult male olfactory brain cDNA, RIKEN full-length enrich	206.59
chr15	170729	BC057562	Scrt1	scratch homolog 1, zinc finger protein (Drosophila), mR	202.15
chr6	108653	AK039398	Rimklb	adult male spinal cord cDNA, RIKEN full-length enrich	193.79

chr7	N/A	BC072564	N/A	cDNA clone IMAGE:6808940, **** WARNING: chimeric	501.11
chr8	330863	XM_001480436	Trim67	PREDICTED: tripartite motif-containing 67, transcript va	221.54
chrX	17954	BC115708	Nap1l2	nucleosome assembly protein 1-like 2, mRNA (cDNA clc	184.79
chr5	26414	AB096078	Mapk10	JNK3B1 mRNA for JNK3 beta1 protein kinase, complete	298.42
chr5	319807	XM_132047	3110047P20	PREDICTED: RIKEN cDNA 3110047P20 gene (3110047P2	182.38
chr16	268859	AK134833	A2bp1	adult male medulla oblongata cDNA, RIKEN full-length e	195.92
chr1	20254	BC048249	Scg2	secretogranin II, mRNA (cDNA clone MGC:54765 IMAGI	196.60
chr4	15572	AF041341	Elavl4	alt 'Elav#Hud#PNEM'	225.82
chr2	20614	BC018249	Snap25	synaptosomal-associated protein 25, mRNA (cDNA clon	175.11
chr7	628779	XM_893564	Hs3st4	PREDICTED: predicted gene, EG628779 (EG628779), mF	246.17
chr11	70357	DQ148495	Kcnp1	alt '2900046L02Rik#3202002F18Rik#A1842357#AW494.	253.44
chr18	13176	AK157715	Dcc	9.5 days embryo parthenogenote cDNA, RIKEN full-leng	208.39
chr2	214240	BC118526	Disp2	dispatched homolog 2 (Drosophila), mRNA (cDNA clone	237.91
chr2	20262	BC057017	Stmn3	stathmin-like 3, mRNA (cDNA clone MGC:67122 IMAGE	170.45
chr1	14472	BC116965	Gbx2	gastrulation brain homeobox 2, mRNA (cDNA clone MG	166.63
chr11	20370	BC053011	Sez6	seizure related gene 6, mRNA (cDNA clone MGC:62202	165.88
chr5	26414	AB005665	Mapk10	mRNA for JNK3, complete cds.	247.05
chr3	14800	AK163941	Gria2	0 day neonate cerebellum cDNA, RIKEN full-length enri	177.77
chr4	14348	BC116874	Fut9	fucosyltransferase 9, mRNA (cDNA clone MGC:151251 I	247.98
chr6	243616	BC146307	Slc6a11	Synthetic construct clone IMAGE:100015220, MGC:180	265.51
chr8	330863	XM_001480431	Trim67	PREDICTED: tripartite motif-containing 67, transcript va	159.20
chr5	19894	BC042585	Rph3a	rabphilin 3A, mRNA (cDNA clone MGC:39004 IMAGE:53	181.52
chr7	70571	BC048631	Tcerg1l	transcription elongation regulator 1-like, mRNA (cDNA i	360.91
chr8	12564	BC057581	Cdh8	cadherin 8, mRNA (cDNA clone MGC:67070 IMAGE:641	241.36
chr14	654794	AK162870	A230070E04	adult male hypothalamus cDNA, RIKEN full-length enric	169.13
chr5	83766	BC049539	Actl6b	actin-like 6B, mRNA (cDNA clone MGC:58100 IMAGE:65	148.36
chr3	14800	AK134772	Gria2	adult male medulla oblongata cDNA, RIKEN full-length e	249.91
chr8	12564	AK139334	Cdh8	10 days neonate cortex cDNA, RIKEN full-length enrich	235.23
chr18	319211	AK031008	Nol4	adult male thymus cDNA, RIKEN full-length enriched lib	298.66
chr7	11775	BC030306	Ap3b2	adaptor-related protein complex 3, beta 2 subunit, mRI	139.40
chr16	67254	BC022741	2900011O08	RIKEN cDNA 2900011O08 gene, mRNA (cDNA clone MG	179.63
chr2	18012	BC018241	Neurod1	neurogenic differentiation 1, mRNA (cDNA clone MGC:.	137.31
chr14	27062	BC079679	Cadps	Ca<2+>dependent activator protein for secretion, mRN	218.50
chr18	20689	BC118974	Sall3	sal-like 3 (Drosophila), mRNA (cDNA clone MGC:144161	135.31
chr4	242425	BC156087	Gabbr2	Synthetic construct clone IMAGE:100062382, MGC:190	134.55
chr2	228858	BC019941	Gdap1l1	ganglioside-induced differentiation-associated protein :	150.83
chr18	319211	BC056377	Nol4	nucleolar protein 4, mRNA (cDNA clone MGC:73460 IM	198.34
chr18	319211	AK031753	Nol4	11 days embryo head cDNA, RIKEN full-length enriched	214.74
chr9	15571	U29149	Elavl3	RNA-binding protein mHuC-S mRNA, partial cds.	128.76
chr11	20370	D29763	Sez6	domesticus mRNA for seizure-related gene product 6 p	171.23
chr4	15569	BC049125	Elavl2	ELAV (embryonic lethal, abnormal vision, Drosophila)-li	193.19
chr3	N/A	AK141565	N/A	adult male hippocampus cDNA, RIKEN full-length enrich	146.59
chr3	229759	BC112422	Olfm3	olfactomedin 3, mRNA (cDNA clone MGC:132951 IMAG	211.27
chr2	14617	BC058595	Gjd2	gap junction protein, delta 2, mRNA (cDNA clone MGC:.	123.72
chr15	239650	BC090621	A1836003	expressed sequence A1836003, mRNA (cDNA clone MGC	250.00
chr2	12653	BC014736	Chgb	chromogranin B, mRNA (cDNA clone MGC:25417 IMAG	121.37
chr7	57754	BC023032	Cend1	cell cycle exit and neuronal differentiation 1, mRNA (cD	120.91
chr3	54524	AB026810	Syt6	mRNA for synaptotagmin VideltaTM2, complete cds.	125.76
chr17	106763	BC059249	Ttbk1	tau tubulin kinase 1, mRNA (cDNA clone MGC:67542 IV	151.58
chr14	238988	AK122265	Erc2	mRNA for mKIAA0378 protein.	182.88
chr1	76982	BC066997	3110035E14	RIKEN cDNA 3110035E14 gene, mRNA (cDNA clone MG	141.73
chr9	110834	BC120597	Chrna3	cholinergic receptor, nicotinic, alpha polypeptide 3, mR	117.50
chr12	238266	AK032606	Syt16	adult male olfactory brain cDNA, RIKEN full-length enric	180.85
chr13	22360	BC052019	Nrsn1	neurensin 1, mRNA (cDNA clone MGC:62360 IMAGE:57	115.98
chr2	20511	AK013557	Slc1a2	adult male hippocampus cDNA, RIKEN full-length enrich	203.42
chr3	23937	BC046628	Mab21l2	mab-21-like 2 (C. elegans), mRNA (cDNA clone MGC:54	145.03
chr13	67295	BC114335	Rab3c	RAB3C, member RAS oncogene family, mRNA (cDNA clc	114.99
chr9	15571	BC052097	Elavl3	ELAV (embryonic lethal, abnormal vision, Drosophila)-li	112.79
chr7	70571	BC107234	Tcerg1l	transcription elongation regulator 1-like, mRNA (cDNA i	190.47

chr4	15569 BC046598	Elavl2	ELAV (embryonic lethal, abnormal vision, Drosophila)-li	219.83
chr8	57340 BC105307	Jph3	junctophilin 3, mRNA (cDNA clone MGC:124338 IMAGE	190.86
chr8	12404 BC055730	Cbln1	cerebellin 1 precursor protein, mRNA (cDNA clone MGC	199.02
chr7	101694 XM_979851	AI854517	PREDICTED: expressed sequence AI854517 (AI854517),	112.58
chr1	14545 BC051135	Gdap1	ganglioside-induced differentiation-associated-protein	221.63
chr2	14415 AK160410	Gad1	adult male cerebellum cDNA, RIKEN full-length enricher	107.45
chr2	18389 AF043276	Oprl1	kappa3 related opioid receptor isoform A mRNA, comp	111.01
chr1	240690 AK122303	St18	mRNA for mKIAA0535 protein.	106.41
chr2	16574 BC067051	Kif5c	kinesin family member 5C, mRNA (cDNA clone MGC:86	207.71
chr9	76898 AB055781	B3gat1	GlcAT-P mRNA for UDP-glucuronyltransferase-P, compl	110.00
chr8	117148 BC115857	Necab2	EF hand calcium binding protein 2, mRNA (cDNA clone l	118.92
chr7	104245 AB118159	Slc6a5	GlyT2 mRNA for glycine transporter type-2, complete c	104.35
chr18	12936 AF464180	Pcdha4	protocadherin mRNA, complete cds.	231.36
chr11	52897 BC054403	D11Bwg051	DNA segment, Chr 11, Brigham & Women's Genetics 05	116.73
chr1	170771 BC132117	Khdrbs2	KH domain containing, RNA binding, signal transductor	163.63
chr7	195646 BC152758	Hs3st2	Synthetic construct clone IMAGE:100015954, MGC:184	101.07
chr5	140904 AK081011	Caln1	10 days neonate cerebellum cDNA, RIKEN full-length er	101.01
chr13	76980 XM_127466	3110006E14	PREDICTED: RIKEN cDNA 3110006E14 gene (3110006E1	366.92
chr17	18189 AK137407	Nrxn1	16 days neonate cerebellum cDNA, RIKEN full-length er	100.31

expression change fold		loss in DNA methylation loss at E15		neural development and functions	GO:004520 2~synapse	GO:003005 4~cell junction	GO:005087 7~neurological system process	GO:004300 5~neuron projection	neurogenesis
E15/E19	E15/Adults		minimum fold-change						
965.35	1127.41	-	923	+	-	-	+	-	-
1168.78	1820.02	-	851	-	-	-	-	-	-
843.46	1034.77	-	629	+	-	-	+	-	-
1183.41	1236.95	-	603	+	+	+	+	-	-
759.31	580.69	-	581	+	-	-	-	-	+
620.26	646.09	-	572	-	-	-	-	-	-
539.24	610.21	-	539	+	-	-	+	-	-
512.67	552.35	-	507	+	+	+	-	-	-
621.36	497.73	-	498	-	-	-	-	-	-
487.61	621.48	-	488	-	-	-	-	-	-
652.73	1072.10	-	468	-	-	-	-	-	-
531.18	463.72	-	464	-	-	-	-	-	-
444.55	808.27	-	445	-	-	-	-	-	-
418.08	492.49	-	418	+	-	-	-	-	+
408.32	1536.34	-	408	+	-	-	-	-	+
466.80	389.79	-	390	-	-	-	-	-	-
389.47	807.28	+	389	-	-	-	-	-	-
766.26	370.25	-	370	+	-	-	-	+	-
429.49	504.32	-	359	+	+	+	+	-	-
336.76	432.65	-	337	-	-	-	-	-	-
313.22	1118.91	-	313	-	-	-	-	-	-
312.51	660.90	-	313	+	+	+	+	-	-
312.27	598.15	-	312	-	-	-	-	-	-
383.68	1751.06	-	310	+	+	-	-	-	-
286.47	276.11	-	276	+	-	-	-	-	+
273.27	510.75	-	273	-	-	-	-	-	-
330.70	271.81	-	272	+	+	+	+	+	-
604.98	270.65	-	271	+	-	-	-	-	+
283.33	268.34	-	268	-	-	-	-	-	-
262.83	705.98	-	263	-	-	-	-	-	-
261.86	327.92	-	262	-	-	-	-	-	-
256.91	267.86	-	257	+	+	+	+	-	-
239.67	286.90	+	240	-	-	-	-	-	-
327.01	239.21	-	239	-	-	-	-	-	-
239.08	241.99	-	239	-	-	-	-	-	-
337.85	537.07	-	239	-	-	-	-	-	-
363.19	238.09	-	238	+	+	-	-	-	-
341.83	293.46	-	234	-	-	-	-	-	-
432.25	391.19	-	233	-	-	-	-	-	-
231.78	677.69	-	232	+	-	-	-	+	-
231.70	671.76	-	232	+	-	-	+	+	-
742.08	644.95	-	230	-	-	-	-	-	-
294.95	277.66	-	224	-	-	-	-	-	-
270.16	221.94	-	222	-	-	-	-	-	-
765.08	982.41	-	215	-	-	-	-	-	-
256.92	802.54	-	212	-	-	-	-	-	-
208.94	286.83	-	209	+	+	+	-	-	-
206.61	296.34	-	207	+	+	+	+	-	-
364.60	555.84	-	207	-	-	-	-	-	-
363.25	1199.74	+	202	-	-	-	-	-	-
214.64	224.75	+	194	-	-	-	-	-	-

190.18	498.78	-	190	-	-	-	-	-	-
224.50	185.17	-	185	-	-	-	-	-	-
366.55	189.08	+	185	-	-	-	-	-	-
193.09	182.45	-	182	-	-	-	-	-	-
209.28	188.44	+	182	-	-	-	-	-	-
223.56	180.56	-	181	-	-	-	-	-	-
177.94	179.89	-	178	-	-	-	-	-	-
177.41	438.95	-	177	-	-	-	-	-	-
705.85	1739.47	-	175	+	+	+	+	-	-
173.06	442.06	-	173	-	-	-	-	-	-
237.77	170.94	-	171	-	-	-	-	-	-
169.67	223.79	-	170	+	-	-	-	+	-
167.94	422.18	-	168	-	-	-	-	-	-
233.06	166.85	-	167	+	-	-	-	-	-
169.84	183.09	-	167	+	-	-	-	-	-
204.54	193.83	+	166	+	+	+	-	+	-
168.67	163.04	-	163	-	-	-	-	-	-
161.74	930.69	-	162	+	+	+	+	+	-
160.61	173.84	-	161	-	-	-	-	-	-
159.66	446.33	-	160	+	-	-	-	-	-
300.09	201.75	-	159	-	-	-	-	-	-
158.06	247.98	-	158	+	+	+	+	-	-
157.79	800.60	-	158	-	-	-	-	-	-
156.87	498.57	-	157	-	-	-	-	-	-
153.84	410.80	-	154	-	-	-	-	-	-
189.57	997.68	-	148	+	-	-	-	-	+
145.98	561.40	-	146	+	+	+	+	+	-
144.43	284.81	-	144	-	-	-	-	-	-
140.70	487.14	-	141	-	-	-	-	-	-
151.35	194.66	-	139	-	-	-	-	-	-
139.06	749.66	-	139	-	-	-	-	-	-
276.32	279.29	-	137	+	-	-	-	-	+
136.46	137.80	-	136	+	+	+	-	-	-
195.05	268.33	+	135	+	-	-	-	-	-
187.13	195.02	-	135	+	+	+	-	+	-
134.36	174.79	-	134	-	-	-	-	-	-
130.68	299.35	-	131	-	-	-	-	-	-
129.46	399.94	-	129	-	-	-	-	-	-
219.18	361.02	-	129	+	-	-	-	-	+
128.35	141.00	+	128	+	+	+	-	+	-
125.85	142.97	-	126	-	-	-	-	-	-
148.31	125.03	-	125	-	-	-	-	-	-
124.45	214.53	-	124	-	-	-	-	-	-
197.80	350.37	-	124	+	-	+	+	-	-
341.65	123.19	-	123	-	-	-	-	-	-
156.79	207.52	-	121	-	-	-	-	-	-
191.52	203.85	-	121	-	-	-	-	-	-
177.72	120.39	-	120	+	+	+	-	-	-
118.59	221.77	-	119	-	-	-	-	-	-
146.72	118.02	-	118	+	+	+	-	+	-
166.05	117.76	-	118	-	-	-	-	-	-
130.96	204.02	-	118	+	+	+	+	-	-
116.64	433.57	-	117	-	-	-	-	-	-
154.69	268.93	-	116	+	-	-	-	+	-
115.32	627.50	-	115	+	+	-	-	+	-
200.27	115.27	-	115	-	-	-	-	-	-
181.32	149.49	-	115	+	+	-	-	-	-
201.07	304.21	-	113	+	-	-	-	-	+
112.77	316.16	-	113	-	-	-	-	-	-

111.85	307.86	-	112	-	-	-	-	-	-
121.10	110.64	-	111	-	-	-	-	-	-
108.73	571.88	+	109	+	+	+	-	-	-
108.34	189.23	-	108	-	-	-	-	-	-
121.89	107.90	-	108	-	-	-	-	-	-
115.27	147.67	-	107	+	+	-	+	+	-
123.76	107.05	-	107	-	-	-	-	-	-
131.95	140.38	-	106	-	-	-	-	-	-
106.96	105.44	-	105	+	-	-	-	+	-
104.97	146.77	-	105	-	-	-	-	-	-
187.15	104.37	-	104	-	-	-	-	-	-
155.71	340.88	-	104	+	-	-	-	-	-
104.14	354.58	-	104	-	-	-	-	-	-
103.73	148.08	-	104	-	-	-	-	-	-
102.83	298.40	-	103	-	-	-	-	-	-
368.66	461.38	-	101	-	-	-	-	-	-
110.79	277.14	-	101	-	-	-	-	-	-
100.72	184.39	-	101	-	-	-	-	-	-
169.27	110.80	-	100	+	+	-	+	-	-

For Review Only

Dataset S7. Genes implicated in knockout and mutagenesis models of wound healing listed i within the promoter regions following the foetal transition.

The changes of DNA methylation and expression status following the decline of scarless skin w Wound Resolve Database which comprises knockout, transgenic, mutation and pharmacologic methylation, matching the criteria described in “Materials and Methods”.

SCALE			
Transcript ID	NCBI ID	Gene name	Description
BC006650	20312	<i>Cx3cl1</i>	chemokine (C-X3-C motif) ligand 1
BC089607	15200	<i>Hbegf</i>	heparin-binding EGF-like growth factor
BC012690	22370	<i>Vtn</i>	vitronectin
AK165965	20750	<i>Spp1</i>	secreted phosphoprotein 1m osteopontin
BC120504	12672	<i>Chrm4</i>	cholinergic receptor, muscarinic 4
AK082438	18754	<i>Prkce</i>	protein kinase C, epsilon
BC127068	21752	<i>Tert</i>	telomerase reverse transcriptase
BC028771	12310	<i>Calca</i>	calcitonin/calcitonin-related polypeptide, alpha
BC129892	12671	<i>Chrm3</i>	cholinergic receptor, muscarinic 3, cardiac
BC056386	13612	<i>Edil3</i>	EGF-like repeats and discoidin I-like domains 3
BC104490	18167	<i>Npy2r</i>	neuropeptide Y receptor Y2
BC108980	15218	<i>Foxn1*</i>	forkhead box N1
AK044536	13405	<i>Dmd</i>	dystrophin, muscular dystrophy
BC003815	20375	<i>Spi1</i>	spleen focus forming virus (SFFV) proviral integration oncogene
AK048550	16177	<i>Il1r1</i>	interleukin 1 receptor, type I
Y07693	18029	<i>Nfic</i>	nuclear factor I/C
BC004599	21937	<i>Tnfrsf1a</i>	tumor necrosis factor receptor superfamily, member 1a
BC021636	15586	<i>Hyal1*</i>	hyaluronoglucosaminidase 1
AK051937	210126	<i>Lpp</i>	LIM domain containing preferred translocation partner in lipoma
AK165017	21802	<i>Tgfa</i>	transforming growth factor alpha
DQ266428	15530	<i>Hspg2</i>	perlecan (heparan sulfate proteoglycan 2)
AK170612	16952	<i>Anxa1</i>	annexin A1
AK137470	30955	<i>Pik3cg</i>	phosphoinositide-3-kinase, catalytic, gamma polypeptide
BC019154	21824	<i>Thbd</i>	thrombomodulin
BC109137	18173	<i>Slc11a1</i>	solute carrier family 11 (proton-coupled divalent metal ion transporters), me
BC003325	16664	<i>Krt14</i>	keratin 14
BC125245	16846	<i>Lep</i>	leptin
BC156111	11606	<i>Agt</i>	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
BC116838	16858	<i>Lgals7</i>	lectin, galactose binding, soluble 7
AK171273	74145	<i>F13a1</i>	coagulation factor XIII, A1 subunit



AK171037	16181	<i>Il1rn</i>	interleukin 1 receptor antagonist
BC032883	11555	<i>Adrb2</i>	adrenergic receptor, beta 2
AK145110	12763	<i>Cmah</i>	cytidine monophospho-N-acetylneuraminic acid hydroxylase
AK141197	16194	<i>Il6ra</i>	interleukin 6 receptor, alpha
BC090658	19039	<i>Lgals3bp</i>	lectin, galactoside-binding, soluble, 3 binding protein
BC024387	14620	<i>Gjb3</i>	gap junction protein, beta 3
BC035043	21922	<i>Clec3b</i>	C-type lectin domain family 3, member b
U88353	16774	<i>Lama3</i>	laminin, alpha 3
AK087472	12505	<i>Cd44</i>	CD44 antigen
BC005573	19224	<i>Ptgs1</i>	prostaglandin-endoperoxide synthase 1
BC027310	246256	<i>Fcgr4</i>	Fc receptor, IgG, low affinity IV
AF114266	21817	<i>Tgm2</i>	transglutaminase 2, C polypeptide
AK149460	19013	<i>Ppara</i>	peroxisome proliferator activated receptor alpha
BC109158	20344	<i>Selp</i>	selectin, platelet
AF396877	13518	<i>Dst</i>	dystonin
AF188008	18810	<i>Plec</i>	plectin 1
AK087283	15442	<i>Hpse</i>	heparanase
BC030067	15945	<i>Cxcl10</i>	chemokine (C-X-C motif) ligand 10
AK087840	18591	<i>Pdgfb</i>	platelet derived growth factor, B polypeptide
AK008867	16420	<i>Itgb6</i>	integrin beta 6
AK037070	11835	<i>Ar</i>	androgen receptor
BC003790	16477	<i>Junb</i>	Jun-B oncogene
BC050834	11504	<i>Adamts1</i>	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motifs
AK148258	17295	<i>Met</i>	met proto-oncogene
BC027001	14164	<i>Fgf1</i>	fibroblast growth factor 1
BC060741	13645	<i>Egf</i>	epidermal growth factor
U09507	12575	<i>Cdkn1a</i>	cyclin-dependent kinase inhibitor 1A (P21)
BC005679	20971	<i>Sdc4</i>	syndecan 4
AY427558	14609	<i>Gja1</i>	gap junction protein, alpha 1
BC132163	14969	<i>H2-Eb1</i>	histocompatibility 2, class II antigen E beta
DQ083237	16168	<i>Il15</i>	interleukin 15
BC027400	11828	<i>Aqp3</i>	aquaporin 3
BC029814	14281	<i>Fos</i>	FBJ osteosarcoma oncogene
BC036175	11607	<i>Agtr1a</i>	angiotensin II receptor, type 1a
BC054782	193740	<i>Hspa1a</i>	heat shock protein 1A
BC119083	20339	<i>Sele</i>	selectin, endothelial cell
BC010551	15235	<i>Mst1</i>	macrophage stimulating 1 (hepatocyte growth factor-like)
BC025903	56066	<i>Cxcl11</i>	chemokine (C-X-C motif) ligand 11
BC005591	17874	<i>Myd88</i>	myeloid differentiation primary response gene 88
BC011040	20700	<i>Serpina1a</i>	serine (or cysteine) peptidase inhibitor, clade A, member 1a
BC037138	107765	<i>Ankrd1</i>	ankyrin repeat domain 1 (cardiac muscle)
AK157245	16176	<i>Il1b</i>	interleukin 1 beta
BC145644	16414	<i>Itgb2</i>	integrin beta 2
BC156105	67855	<i>Asprv1</i>	aspartic peptidase, retroviral-like 1
BC010757	15368	<i>Hmox1</i>	heme oxygenase (decycling) 1
AK142111	12843	<i>Col1a2</i>	collagen, type I, alpha 2
BC052031	12702	<i>Socs3</i>	suppressor of cytokine signaling 3
BC059004	50934	<i>Slc7a8</i>	solute carrier family 7 member 8
BC099373	14268	<i>Fn1</i>	fibronectin 1
AK168707	227753	<i>Gsn</i>	gelsolin

BC148604	18988	<i>Pou2f3</i>	POU domain, class 2, transcription factor 3
BC027838	13874	<i>Ereg</i>	epiregulin
BC156094	16409	<i>Itgam</i>	integrin alpha M
BC006737	12370	<i>Casp8</i>	caspase 8
D10204	19218	<i>Ptger3</i>	prostaglandin E receptor 3 (subtype EP3)
BC053006	14595	<i>B4gal1</i>	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
AK159377	11568	<i>Aebp1</i>	AE binding protein 1
AK029360	18024	<i>Nfe2l2</i>	nuclear factor, erythroid derived 2, like 2
BC125320	17386	<i>Mmp13</i>	matrix metalloproteinase 13
BC031121	18755	<i>Prkch</i>	protein kinase C, eta
AK084243	19303	<i>Pxn</i>	paxillin
CT010321	22324	<i>Vav1</i>	vav 1 oncogene
BC053702	21826	<i>Thbs2</i>	thrombospondin 2
AK090074	12389	<i>Cav1</i>	caveolin 1, caveolae protein
BC052629	21813	<i>Tgfr2</i>	transforming growth factor, beta receptor II
BC027744	14248	<i>Flii</i>	flightless I homolog (Drosophila)
BC013639	15408	<i>Hoxb13</i>	homeo box B13
AK154697	17872	<i>Ppp1r15a</i>	protein phosphatase 1, regulatory (inhibitor) subunit 15A
M89956	16985	<i>Lsp1</i>	lymphocyte specific 1
AK164048	56637	<i>Gsk3b</i>	glycogen synthase kinase 3 beta
BC152973	11622	<i>Ahr</i>	aryl-hydrocarbon receptor
AK148670	20692	<i>Sparc</i>	secreted acidic cysteine rich glycoprotein
BC026756	18816	<i>Serpinf2</i>	serine (or cysteine) peptidase inhibitor, clade F, member 2
BC066850	17127	<i>Smad3</i>	MAD homolog 3 (Drosophila)
NM_00110	12822	<i>Col18a1</i>	collagen, type XVIII, alpha 1
BC120612	16153	<i>Il10</i>	interleukin 10
BC119063	15978	<i>Irf3</i>	interferon gamma
AK017853	15251	<i>Hif1a</i>	hypoxia inducible factor 1, alpha subunit
BC058740	240025	<i>Dact2</i>	dapper homolog 2, antagonist of beta-catenin (xenopus)
BC054091	18787	<i>Serpine1</i>	serine (or cysteine) peptidase inhibitor, clade E, member 1
BC003759	13602	<i>Sparcl1</i>	SPARC-like 1
AK154874	216869	<i>Arb2</i>	arrestin, beta 2
AK020013	12387	Ctnnb1	catenin (cadherin associated protein), beta 1
BC052681	20343	Sell	selectin, lymphocyte
BC051677	12765	Cxcr2	interleukin 8 receptor, beta
BC096626	12766	Cxcr3	chemokine (C-X-C motif) receptor 3
BC080820	16687	Krt6a	keratin 6A
BC018439	16948	Lox	lysyl oxidase
ND	18183	Nrg3	neuregulin 3
ND	18991	Pou3f1	POU domain, class 3, transcription factor 1
BC008154	14815	Nr3c1	nuclear receptor subfamily 3, group C, member 1
AK020013	12387	Ctnnb1	catenin (cadherin associated protein), beta 1
BC116628	26408	Map3k5	mitogen-activated protein kinase kinase kinase 5
BC063064	17164	Mapkapk2	MAP kinase-activated protein kinase 2
AY324648	18590	Pdgfra	platelet derived growth factor, alpha
BC021342	17126	Smad2	MAD homolog 2 (Drosophila)
BC106091	13867	ErbB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
BC005455	19354	Rac2	RAS-related C3 botulinum substrate 2
BC145945	14313	Fst	follistatin
AK038588	14183	Fgfr2	fibroblast growth factor receptor 2

BC145867	20296	<i>Ccl2</i>	chemokine (C-C motif) ligand 2
BC012409	16000	<i>Igf1</i>	insulin-like growth factor 1
AK160822	18822	<i>Plod1</i>	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1
AK029703	20410	<i>Sorbs3</i>	sorbin and SH3 domain containing 3
BC070398	19015	<i>Ppard</i>	peroxisome proliferator activator receptor delta
BC131669	18073	<i>Nid1</i>	nidogen 1
BC019168	20848	<i>Stat3</i>	signal transducer and activator of transcription 3
BC013634	14619	<i>Gjb2</i>	gap junction protein, beta 2
BC125511	13035	<i>Ctsg</i>	cathepsin G
AK137965	17863	<i>Myb</i>	myeloblastosis oncogene
BC014713	21859	<i>Timp3</i>	tissue inhibitor of metalloproteinase 3
BC076638	17387	<i>Mmp14</i>	matrix metalloproteinase 14 (membrane-inserted)
BC062164	20583	<i>Snai2</i>	snail homolog 2 (Drosophila)
BC046282	13857	<i>Epor</i>	erythropoietin receptor
BC023729	13649	<i>Egfr</i>	epidermal growth factor receptor
BC117057	21926	<i>Tnf</i>	tumor necrosis factor
AK052936	14200	<i>Fhl2</i>	four and a half LIM domains 2
BC013738	21803	<i>Tgfb1</i>	transforming growth factor, beta 1
AK053839	54725	<i>Cadm1</i>	cell adhesion molecule 1
AK082461	15234	<i>Hgf</i>	hepatocyte growth factor
BC028876	67529	<i>Fgfr1op2</i>	FGFR1 oncogene partner 2
AK205936	12406	<i>Serpinh1</i>	serine (or cysteine) peptidase inhibitor, clade H, member 1
AK033934	14178	<i>Fgf7</i>	fibroblast growth factor 7
AK220170	12614	<i>Celsr1</i>	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
BC008626	15894	<i>Icam1</i>	intercellular adhesion molecule 1
BC021888	16476	<i>Jun</i>	Jun oncogene
BC021772	64058	<i>Perp</i>	PERP, TP53 apoptosis effector
BC013896	19123	<i>Proc</i>	protein C
BC047156	11502	<i>Adam9</i>	a disintegrin and metalloproteinase domain 9 (meltrin gamma)
BC010560	20969	<i>Sdc1</i>	syndecan 1
AK198669	18214	<i>Ddr2</i>	discoidin domain receptor family, member 2
BC094612	268977	<i>Ltbp1</i>	latent transforming growth factor beta binding protein 1
AF235006	93672	<i>Il24</i>	interleukin 24
BC061181	11758	<i>Prdx6</i>	peroxiredoxin 6
BC062888	105782	<i>Scrib</i>	scribbled homolog (Drosophila)
AF186373	21816	<i>Tgm1</i>	transglutaminase 1, K polypeptide
U10440	12576	<i>Cdkn1b</i>	cyclin-dependent kinase inhibitor 1B
AK087891	71461	<i>Ptk7</i>	PTK7 protein tyrosine kinase 7
BC116878	12981	<i>Csf2</i>	colony stimulating factor 2 (granulocyte-macrophage)
BC003316	21847	<i>Klf10</i>	Kruppel-like factor 10
AK085050	18015	<i>Nf1</i>	neurofibromatosis 1
BC053031	16400	<i>Itga3</i>	integrin alpha 3
BC057185	12111	<i>Bgn</i>	biglycan
BC006783	14219	<i>Ctgf</i>	connective tissue growth factor
BC070430	17390	<i>Mmp2</i>	matrix metalloproteinase 2
AK152637	20540	<i>Slc7a7</i>	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7
AK036317	110157	<i>Raf1</i>	v-raf-leukemia viral oncogene 1
BC125366	16191	<i>Il5</i>	interleukin 5
BC029547	13614	<i>Edn1</i>	endothelin 1
BC028509	20568	<i>Slpi</i>	secretory leukocyte peptidase inhibitor

AK089780	16193	<i>Il6</i>	interleukin 6
BC050917	21825	<i>Thbs1</i>	thrombospondin 1
AK172868	11600	<i>Angpt1</i>	angiopoietin 1
BC089306	228359	<i>Arhgap1</i>	Rho GTPase activating protein 1
BC086886	20655	<i>Sod1</i>	superoxide dismutase 1
BC066018	11651	<i>Akt1</i>	thymoma viral proto-oncogene 1
BC061125	20219	<i>Apcs</i>	serum amyloid P-component
BC046584	17128	<i>Smad4</i>	SMAD family member 4
BC132521	13179	<i>Dcn</i>	decorin
BC012236	12476	<i>Cd151</i>	CD151 antigen
AK135521	16412	<i>Itgb1</i>	integrin beta 1 (fibronectin receptor beta)
BC052636	18127	<i>Nos3</i>	nitric oxide synthase 3, endothelial cell
BC066019	16007	<i>Cyr61</i>	cysteine rich protein 61
BC052900	19225	<i>Ptgs2</i>	prostaglandin-endoperoxide synthase 2
BC089335	22352	<i>Vim</i>	vimentin
AK132176	14388	<i>Gab1</i>	growth factor receptor bound protein 2-associated protein 1
AK037551	18613	<i>Pecam1</i>	platelet/endothelial cell adhesion molecule 1
BC052739	57257	<i>Vav3</i>	vav 3 oncogene
BC117756	83995	<i>Mmp1a</i>	matrix metalloproteinase 1a (interstitial collagenase)
BC031113	56406	<i>Ncoa6</i>	nuclear receptor coactivator 6
BC156158	14173	<i>Fgf2</i>	fibroblast growth factor 2
BC002054	13722	<i>Aimp1</i>	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
BC031417	110606	<i>Fntb</i>	farnesyltransferase, CAAX box, beta
BC089372	230824	<i>Grlh3</i>	grainyhead-like 3 (Drosophila)
BC050014	12842	<i>Col1a1</i>	collagen, type I, alpha 1
BC048229	14165	<i>Fgf10</i>	fibroblast growth factor 10
BC061149	14068	<i>F7</i>	coagulation factor VII
BC037108	12305	<i>Ddr1</i>	discoidin domain receptor family, member 1
BC014690	21809	<i>Tgfb3</i>	transforming growth factor, beta 3
BC024895	17319	<i>Mif</i>	macrophage migration inhibitory factor
BC003453	12317	<i>Calr</i>	calreticulin
BC049126	21858	<i>Timp2</i>	tissue inhibitor of metalloproteinase 2
AK166383	19353	<i>Rac1</i>	RAS-related C3 botulinum substrate 1
BC008107	21857	<i>Timp1</i>	tissue inhibitor of metalloproteinase 1
AK040840	18815	<i>Plg</i>	plasminogen
BC119265	13856	<i>Epo</i>	erythropoietin
AK012077	16475	<i>Jub</i>	ajuba
M65053	14182	<i>Fgfr1</i>	fibroblast growth factor receptor 1
AY120866	22339	<i>Vegfa</i>	vascular endothelial growth factor A
AK041617	15366	<i>Hmmer</i>	hyaluronan mediated motility receptor (RHAMM)
BC011055	21808	<i>Tgfb2</i>	transforming growth factor, beta 2
BC125518	16416	<i>Itgb3</i>	integrin beta 3
AK086845	22059	<i>Trp53</i>	transformation related protein 53
BC006725	17392	<i>Mmp3</i>	matrix metalloproteinase 3
BC013341	11846	<i>Arg1</i>	arginase, liver
BC025904	70726	<i>Angptl6</i>	angiopoietin-like 6
AK133952	17869	<i>Myc</i>	myelocytomatosis oncogene
AK163608	12478	<i>Cd19</i>	CD19 antigen
BC083183	18125	<i>Nos1</i>	nitric oxide synthase 1, neuronal
BC042742	17394	<i>Mmp8</i>	matrix metalloproteinase 8

AK017841	13555	<i>E2f1</i>	E2F transcription factor 1
BC062378	18126	<i>Nos2</i>	nitric oxide synthase 2, inducible
BC052195	93840	<i>Vangl2</i>	vang-like 2 (van gogh, Drosophila)
BC053527	16323	<i>Inhba</i>	inhibin beta-A
BC031577	12236	<i>Bub1b</i>	budding uninhibited by benzimidazoles 1 homolog, beta (<i>S. cerevisiae</i>)
BC064779	14264	<i>Fmod</i>	fibromodulin
BC033313	14186	<i>Fgfr4</i>	fibroblast growth factor receptor 4
BC013811	14623	<i>Gjb6</i>	gap junction protein, beta 6
BC110692	11540	<i>Adora2a</i>	adenosine A2a receptor
AK139690	104099	<i>Itga9</i>	integrin alpha 9
BC035490	17150	<i>Mfap2</i>	microfibrillar-associated protein 2
BC106189	11481	<i>Acvr2b</i>	activin receptor IIB
BC064046	110595	<i>Timp4</i>	tissue inhibitor of metalloproteinase 4
BC016567	18654	<i>Pgf</i>	placental growth factor
AK143826	20202	<i>S100a9</i>	S100 calcium binding protein A9 (calgranulin B)
BC006904	17002	<i>Ltf</i>	lactotransferrin
BC013662	14061	<i>F2</i>	coagulation factor II
BC005467	14161	<i>Fga</i>	fibrinogen alpha chain
BC012653	13051	<i>Cx3cr1</i>	chemokine (C-X3-C) receptor 1
BC075716	16590	<i>Kit</i>	kit oncogene
AK051780	11489	<i>Adam12</i>	a disintegrin and metallopeptidase domain 12 (meltrin alpha)
BC046991	17395	<i>Mmp9</i>	matrix metallopeptidase 9
BC052833	15186	<i>Hdc</i>	histidine decarboxylase
BC117979	21923	<i>Tnc</i>	tenascin C

in Wound Resolve Database (<http://resolve-whfg.appspot.com>) - ch

round healing in murine foetuses. The genes in the table with the exact models of wound healing. The genes distinguished by red font show

Gene expression ratio			DNA methylation E15 vs. E18, E19 and Adults		Expression E15 vs. E18, E19 and Adults		Improved wound healing in knockout animals
E15/18	E15/19	E15/Ad	E15 at least twice higher	E15 at least twice lower	E15 at least twice higher	E15 at least twice lower	
2.30	2.47	3.04	-	-	+	-	-
2.79	2.12	4.20	-	-	+	-	-
4.71	4.51	5.28	-	-	+	-	-
5.40	3.83	2.02	-	-	+	-	-
2.66	2.04	6.45	-	-	+	-	-
2.64	3.40	7.41	-	-	+	-	-
2.76	2.05	14.81	-	-	+	-	-
26.31	24.41	18.37	-	-	+	-	-
10.76	18.06	39.27	-	-	+	-	-
28.02	8.85	45.75	-	-	+	-	-
2.93	3.33	55.61	-	-	+	-	-
0.30	0.25	0.38	-	-	-	+	+
0.31	0.20	0.18	-	-	-	+	+
0.38	0.36	0.14	-	-	-	+	+
0.40	0.31	0.27	-	-	-	+	+
0.43	0.40	0.37	-	-	-	+	+
0.45	0.44	0.40	-	-	-	+	+
0.39	0.39	0.30	+	-	-	+	-
0.24	0.18	0.16	+	-	-	+	-
0.30	0.31	0.11	+	-	-	+	-
0.21	0.21	0.33	+	-	-	+	-
0.33	0.33	0.08	+	-	-	+	-
0.43	0.35	0.39	+	-	-	+	-
0.45	0.38	0.28	+	-	-	+	-
0.45	0.48	0.11	+	-	-	+	-
0.50	0.48	0.39	+	-	-	+	-
0.03	0.06	0.02	-	-	-	+	-
0.01	0.02	0.08	-	-	-	+	-
0.11	0.09	0.10	-	-	-	+	-
0.12	0.09	0.03	-	-	-	+	-

0.12	0.11	0.08	-	-	-	+	-
0.11	0.11	0.13	-	-	-	+	-
0.13	0.14	0.14	-	-	-	+	-
0.15	0.15	0.07	-	-	-	+	-
0.12	0.15	0.07	-	-	-	+	-
0.15	0.15	0.11	-	-	-	+	-
0.16	0.14	0.12	-	-	-	+	-
0.17	0.16	0.11	-	-	-	+	-
0.19	0.18	0.14	-	-	-	+	-
0.18	0.20	0.06	-	-	-	+	-
0.14	0.21	0.18	-	-	-	+	-
0.12	0.11	0.21	-	-	-	+	-
0.03	0.22	0.20	-	-	-	+	-
0.11	0.08	0.22	-	-	-	+	-
0.22	0.20	0.20	-	-	-	+	-
0.16	0.23	0.10	-	-	-	+	-
0.25	0.23	0.13	-	-	-	+	-
0.19	0.26	0.22	-	-	-	+	-
0.23	0.26	0.24	-	-	-	+	-
0.26	0.24	0.14	-	-	-	+	-
0.27	0.16	0.05	-	-	-	+	-
0.28	0.26	0.17	-	-	-	+	-
0.28	0.23	0.24	-	-	-	+	-
0.30	0.20	0.08	-	-	-	+	-
0.31	0.27	0.30	-	-	-	+	-
0.32	0.22	0.21	-	-	-	+	-
0.28	0.32	0.17	-	-	-	+	-
0.33	0.31	0.12	-	-	-	+	-
0.33	0.26	0.18	-	-	-	+	-
0.33	0.33	0.03	-	-	-	+	-
0.26	0.33	0.15	-	-	-	+	-
0.31	0.33	0.34	-	-	-	+	-
0.36	0.36	0.27	-	-	-	+	-
0.36	0.35	0.36	-	-	-	+	-
0.39	0.27	0.12	-	-	-	+	-
0.30	0.20	0.39	-	-	-	+	-
0.40	0.36	0.37	-	-	-	+	-
0.16	0.40	0.39	-	-	-	+	-
0.40	0.39	0.39	-	-	-	+	-
0.41	0.34	0.14	-	-	-	+	-
0.42	0.27	0.15	-	-	-	+	-
0.42	0.37	0.13	-	-	-	+	-
0.36	0.43	0.05	-	-	-	+	-
0.22	0.22	0.43	-	-	-	+	-
0.41	0.43	0.21	-	-	-	+	-
0.43	0.31	0.35	-	-	-	+	-
0.44	0.36	0.33	-	-	-	+	-
0.45	0.40	0.26	-	-	-	+	-
0.46	0.41	0.33	-	-	-	+	-
0.46	0.44	0.32	-	-	-	+	-

0.46	0.45	0.41	-	-	-	+	-
0.46	0.43	0.27	-	-	-	+	-
0.42	0.47	0.08	-	-	-	+	-
0.46	0.42	0.47	-	-	-	+	-
0.30	0.42	0.47	-	-	-	+	-
0.44	0.40	0.47	-	-	-	+	-
0.47	0.43	0.32	-	-	-	+	-
0.39	0.48	0.31	-	-	-	+	-
0.36	0.48	0.39	-	-	-	+	-
0.48	0.47	0.30	-	-	-	+	-
0.39	0.33	0.49	-	-	-	+	-
0.49	0.49	0.20	-	-	-	+	-
0.47	0.36	0.50	-	-	-	-	+
0.46	0.46	0.55	-	-	-	-	+
0.63	0.61	0.42	-	-	-	-	+
0.65	0.66	0.55	-	-	-	-	+
0.70	0.70	0.41	-	-	-	-	+
0.74	0.70	0.53	-	-	-	-	+
0.74	0.62	0.24	-	-	-	-	+
0.77	0.66	0.51	-	-	-	-	+
0.79	0.63	0.67	-	-	-	-	+
0.85	0.76	0.73	-	-	-	-	+
0.89	0.43	0.22	-	-	-	-	+
0.96	0.81	0.94	-	-	-	-	+
0.76	0.62	0.97	-	-	-	-	+
0.79	1.05	0.20	-	-	-	-	+
1.07	0.67	0.95	-	-	-	-	+
1.20	0.43	0.53	-	-	-	-	+
1.20	1.41	1.68	-	-	-	-	+
0.40	0.34	1.79	-	-	-	-	+
1.15	1.01	2.02	-	-	-	-	+
2.08	1.83	0.90	-	-	-	-	+
0.53	0.47	0.17	+	-	-	-	-
0.28	0.55	0.54	+	-	-	-	-
0.19	0.36	0.58	+	-	-	-	-
0.61	0.40	0.20	+	-	-	-	-
1.41	1.18	0.07	+	-	-	-	-
0.75	0.61	1.71	+	-	-	-	-
ND	ND	ND	-	+	-	-	-
ND	ND	ND	-	+	-	-	-
0.50	0.50	0.35	-	+	-	-	-
0.53	0.47	0.17	-	+	-	-	-
0.51	0.49	0.59	-	+	-	-	-
0.66	0.63	0.62	-	+	-	-	-
0.53	0.57	1.29	-	+	-	-	-
1.07	1.04	1.63	-	+	-	-	-
0.50	0.47	0.46	-	-	-	-	-
0.50	0.39	0.21	-	-	-	-	-
0.39	0.43	0.51	-	-	-	-	-
0.49	0.46	0.52	-	-	-	-	-

0.52	0.49	0.11	-	-	-	-	-
0.48	0.53	0.51	-	-	-	-	-
0.45	0.34	0.54	-	-	-	-	-
0.35	0.54	0.20	-	-	-	-	-
0.47	0.41	0.54	-	-	-	-	-
0.38	0.40	0.55	-	-	-	-	-
0.59	0.59	0.53	-	-	-	-	-
0.60	0.59	0.25	-	-	-	-	-
0.09	0.05	0.61	-	-	-	-	-
0.61	0.48	0.41	-	-	-	-	-
0.61	0.61	0.40	-	-	-	-	-
0.61	0.48	0.40	-	-	-	-	-
0.61	0.62	0.46	-	-	-	-	-
0.50	0.63	0.63	-	-	-	-	-
0.64	0.49	0.41	-	-	-	-	-
0.62	0.54	0.64	-	-	-	-	-
0.64	0.44	0.51	-	-	-	-	-
0.53	0.48	0.64	-	-	-	-	-
0.55	0.47	0.65	-	-	-	-	-
0.67	0.50	0.55	-	-	-	-	-
0.67	0.64	0.68	-	-	-	-	-
0.64	0.67	0.68	-	-	-	-	-
0.65	0.49	0.69	-	-	-	-	-
0.68	0.69	0.44	-	-	-	-	-
0.69	0.48	0.45	-	-	-	-	-
0.68	0.56	0.70	-	-	-	-	-
0.70	0.68	0.68	-	-	-	-	-
0.28	0.73	0.63	-	-	-	-	-
0.73	0.70	0.47	-	-	-	-	-
0.74	0.66	0.38	-	-	-	-	-
0.74	0.54	0.27	-	-	-	-	-
0.64	0.46	0.75	-	-	-	-	-
0.75	0.67	0.12	-	-	-	-	-
0.62	0.75	0.73	-	-	-	-	-
0.77	0.67	0.18	-	-	-	-	-
0.67	0.65	0.77	-	-	-	-	-
0.77	0.70	0.74	-	-	-	-	-
0.77	0.52	0.51	-	-	-	-	-
0.77	0.66	0.62	-	-	-	-	-
0.78	0.70	0.59	-	-	-	-	-
0.82	0.64	0.50	-	-	-	-	-
0.82	0.69	0.65	-	-	-	-	-
0.53	0.44	0.83	-	-	-	-	-
0.84	0.63	0.35	-	-	-	-	-
0.84	0.66	0.63	-	-	-	-	-
0.61	0.60	0.85	-	-	-	-	-
0.86	0.78	0.51	-	-	-	-	-
0.87	0.71	0.44	-	-	-	-	-
0.33	0.33	0.87	-	-	-	-	-
0.29	0.87	0.82	-	-	-	-	-

0.87	0.69	0.81	-	-	-	-	-
0.65	0.58	0.88	-	-	-	-	-
0.48	0.88	0.71	-	-	-	-	-
0.87	0.88	0.56	-	-	-	-	-
0.78	0.90	0.68	-	-	-	-	-
0.91	0.82	0.59	-	-	-	-	-
0.87	0.93	0.75	-	-	-	-	-
0.93	0.84	0.68	-	-	-	-	-
0.95	0.92	0.82	-	-	-	-	-
0.49	0.72	0.97	-	-	-	-	-
0.76	0.75	0.98	-	-	-	-	-
0.45	0.51	0.98	-	-	-	-	-
0.43	0.44	0.99	-	-	-	-	-
1.01	0.92	0.68	-	-	-	-	-
0.92	0.86	1.01	-	-	-	-	-
0.82	0.69	1.02	-	-	-	-	-
0.30	0.41	1.04	-	-	-	-	-
0.93	0.90	1.05	-	-	-	-	-
0.97	1.05	0.83	-	-	-	-	-
1.07	0.63	0.62	-	-	-	-	-
0.65	0.48	1.07	-	-	-	-	-
0.81	0.75	1.08	-	-	-	-	-
0.78	0.87	1.09	-	-	-	-	-
1.10	0.92	1.09	-	-	-	-	-
1.00	0.94	1.11	-	-	-	-	-
0.57	0.49	1.12	-	-	-	-	-
0.95	1.13	0.49	-	-	-	-	-
1.13	1.07	0.94	-	-	-	-	-
0.52	0.44	1.17	-	-	-	-	-
1.15	1.13	1.17	-	-	-	-	-
1.14	1.14	1.18	-	-	-	-	-
1.20	0.98	0.64	-	-	-	-	-
1.22	1.03	1.20	-	-	-	-	-
1.01	0.77	1.24	-	-	-	-	-
0.89	1.24	1.20	-	-	-	-	-
0.63	1.25	0.76	-	-	-	-	-
0.53	0.46	1.25	-	-	-	-	-
0.93	0.70	1.26	-	-	-	-	-
0.30	0.43	1.33	-	-	-	-	-
0.69	0.62	1.35	-	-	-	-	-
0.90	0.76	1.38	-	-	-	-	-
0.34	0.38	1.39	-	-	-	-	-
0.89	0.84	1.42	-	-	-	-	-
1.50	1.08	0.02	-	-	-	-	-
1.51	1.03	0.07	-	-	-	-	-
1.21	1.22	1.65	-	-	-	-	-
1.37	1.20	1.65	-	-	-	-	-
0.53	0.88	1.66	-	-	-	-	-
1.66	1.08	0.59	-	-	-	-	-
0.08	0.19	1.69	-	-	-	-	-

0.75	0.66	1.71	-	-	-	-	-
0.73	0.78	1.79	-	-	-	-	-
1.44	1.43	1.83	-	-	-	-	-
0.57	0.39	1.90	-	-	-	-	-
0.87	0.75	2.08	-	-	-	-	-
2.04	1.56	2.28	-	-	-	-	-
0.86	0.50	2.28	-	-	-	-	-
1.07	1.12	2.45	-	-	-	-	-
0.61	0.81	2.57	-	-	-	-	-
0.70	0.42	3.11	-	-	-	-	-
1.09	0.96	3.14	-	-	-	-	-
2.16	1.68	3.19	-	-	-	-	-
0.64	2.65	3.83	-	-	-	-	-
1.62	1.24	3.87	-	-	-	-	-
0.24	0.89	3.95	-	-	-	-	-
0.52	1.36	4.94	-	-	-	-	-
0.88	1.13	5.27	-	-	-	-	-
4.31	0.98	6.43	-	-	-	-	-
0.81	0.86	6.53	-	-	-	-	-
1.23	0.94	6.54	-	-	-	-	-
0.24	0.31	7.26	-	-	-	-	-
10.01	17.37	1.08	-	-	-	-	-
0.45	0.39	21.31	-	-	-	-	-
1.18	0.89	5.53	-	-	-	-	-

anges of expression and DNA methylation

ption of Tnc, Foxn1 and Hyal1 are listed in
w the top-ranked changes in DNA

Experimental models	listed in Wound Resolve database
Knockout, antibody treatment	+
Knockout	+
Knockout; Exogenous administration	+
Knockout	+
Knockout	+
Knockout	+
Overexpression	+
Knockout	+
Knockout	+
Overexpression	+
Knockout	+
mutation	-
Knockout	+
Knockout	+
Knockout	+
Knockout	+
Knockout	+
administration	-
Knockout	+
Knockout	+
Knockout	+
Knockout	+
Mutagenesis	+
Overexpression	+
Knockout	+
Immunohistochemistry	+
Knockout, administration,antibody treatr	+
Exogenous administration	+
Knockout	+
Knockout; deficiency	+

Knockout	+
Pharmacological treatment	+
Knockout	+
Knockout, antibody treatment	+
Knockout	+
Mutagenesis	+
Knockout	+
Peptide administration	+
Knockout in keratinocytes	+
Knockout	+
PCR	+
Immunohistochemistry	+
Mutagenesis	+
Double Knockout	+
Knockout	+
Knockout	+
Antibody treatment; Exogenous administr	+
Overexpression	+
Overproduction, administration	+
Knockout	+
Knockout	+
Knockout	+
Knockout	+
Knockout	+
In situ hybridization	+
Exogenous administration	+
Western	+
Knockout	+
Knockout; Exogenous administration	+
Knockout	+
Overexpression	+
Knockout	+
Northern, Western,Immunohistochemisti	+
Knockout	+
Immunohistochemistry,Western	+
Double Knockout	+
Immunohistochemistry	+
Knockout	+
Knockout	+
Exogenous administration	+
Overexpression; Exogenous administratic	+
RT-PCR,Immunohistochemistry	+
Mutation; Knockout;Antibody treatment,	+
Overexpression	+
Knockout + overexpression	+
Mutation	+
Overexpression	+
RT-PCR,Immunohistochemistry	+
Mutagenesis	+
Immunohistochemistry	+

Knockout	+
Immunohistochemistry, exogenous admini	+
Mutation	+
Knockout; RNAi	+
Mutagenesis	+
Knockout	+
Knockout	+
RNAi or overexpression	+
Knockout	+
Knockout	+
RT-PCR,Immunohistochemistry	+
RT-PCR	+
Knockout	+
Exogenous administration, antibody treat	+
Knockout; Pharmacological and antibody	+
Knockout; administration	+
Knockout	+
Knockout + overexpression; Antibody tre	+
Knockout + overexpression	+
Overexpression	+
Overexpression	+
RNAi treatment	+
Fgf7 administration,RT-PCR	+
Knockout	+
Knockout	+
Knockout	+
Knockout	+
Exogenous administration	+
Knockout	+
Knockout	+
Knockout	+
Immunohistochemistry	+
RT-PCR	+
Knockout	+
Knockout and Double Knockout	+
Knockout	+
Mutagenesis	+
Knockout	+
Knockout + overexpression	+
Knockout	+
Knockout	+
Knockout	+
Immunohistochemistry	+
Immunohistochemistry	+
RT-PCR,Immunohistochemistry	+
RT-PCR,Immunohistochemistry	+
Knockout	+
Knockout + overexpression	+
Double overexpression	+
Knockout	+

Knockout;administration	+
Overexpression	+
Immunohistochemistry	+
Knockout	+
Knockout	+
Knockout	+
Exogenous administration	+
Knockout	+
Immunohistochemistry	+
Knockout	+
Knockout	+
Knockout	+
Overexpression and mutagenesis; admini	+
Knockout	+
Knockout	+
Mutagenesis	+
Knockout	+
Knockout	+
Mutagenesis	+
Knockout	+
Knockout; Exogenous administration; An	+
Knockout + overexpression	+
Knockout	+
Knockout	+
Mutation; Mutagenesis	+
RT-PCR, Exogenous administration	+
Knockout	+
Northern, Western	+
Antibody treatment, exogenous administ	+
Knockout	+
Exogenous administration	+
RT-PCR,Immunohistochemistry	+
Knockout	+
Knockout	+
Knockout	+
Exogenous administration, antibody treat	+
Knockout	+
Immunohistochemistry, Western	+
Overexpression; Exogenous administratic	+
Knockout	+
Antibody treatment, exogenous administ	+
Knockout	+
Mutagenesis	+
Knockout	+
Western	+
Knockout	+
Knockout	+
Knockout + overexpression	+
Knockout	+
Knockout	+

Knockout	+
Knockout	+
Knockout and Double Knockout	+
Overexpression	+
Mutagenesis	+
Immunohistochemistry	+
RT-PCR	+
Immunohistochemistry	+
Knockout	+
Knockout	+
Knockout	+
Knockout + overexpression	+
RT-PCR,Immunohistochemistry	+
Knockout	+
Knockout	+
Exogenous administration	+
Exogenous administration	+
Knockout	+
Knockout, antibody treatment	+
Antibody treatment	+
Knockout	+
Knockout	+
Knockout	+
-	-

Dataset S8. Expression changes of key wounding response genes in murine foetal skin after de

The genes showing a gain in DNA methylation within the promoter regions following the transition are Fold changes represent the ratios of microarray signals of E15 to E18, E19, and adult, 3 month-old mice. Response genes were extracted from a review on cutaneous wound healing by Stroncek and Reichert

SCALE		0.10	0.50	0.66	1.00	1.50	2.00
Wound healing phase	Description	Gene name	FOLD CHANGE vs. E15				
			E15/E18	E15/E19	E15/Ad		
HEM	fibrinogen, B β	<i>Fgb</i>	3.01	0.81	2.66		
HEM	integrin alpha 2	<i>Itga2b</i>	0.67	0.65	1.07		
HEM	integrin beta 3	<i>Itgb3</i>	0.34	0.38	1.39		
HEM	platelet-derived	<i>Pdgfa</i>	0.53	0.57	1.29		
HEM	platelet derived	<i>Pdgfb</i>	0.23	0.26	0.24		
HEM	platelet-derived	<i>Pdgfc</i>	0.69	0.66	1.52		
HEM/INF/REP/REM	transforming gr	<i>Tgfb1</i>	0.53	0.48	0.64		
HEM/REP	fibrinogen, alpr	<i>Fga</i>	4.31	0.98	6.43		
HEM/secondary REP	vascular endotl	<i>Vegfa</i>	0.30	0.43	1.33		
INF	chemokine (C-)	<i>Ccl2</i>	0.52	0.49	0.11		
INF	chemokine (C-)	<i>Ccl3</i>	1.00	1.72	3.48		
	#NAME?	chemokine (C-)	<i>Ccl4</i>	1.03	1.24	0.86	
INF	chemokine (C-)	<i>Ccl5</i>	0.58	1.09	0.14		
INF	intercellular adl	<i>Icam1</i>	0.69	0.48	0.45		
INF	interleukin 1 al	<i>Il1a</i>	0.04	0.04	0.05		
INF	activated splee	<i>Il1b</i>	0.42	0.37	0.13		
INF	integrin beta 2	<i>Itgb2</i>	0.36	0.43	0.05		
INF	selectin, platele	<i>Selplg</i>	0.43	0.45	0.09		
INF	thrombospondi	<i>Thbs1</i>	0.71	0.62	0.67		
INF	tumor necrosis	<i>Tnf</i>	0.62	0.54	0.64		
INF/pREP	vitronectin	<i>Vtn</i>	4.71	4.51	5.28		
INF/REP	fibronectin 1	<i fn1<="" i=""></i>	0.46	0.41	0.33		
pREP	epidermal grow	<i>Egf</i>	0.32	0.22	0.21		
pREP	fibroblast grow	<i>Fgf7</i>	0.65	0.49	0.69		
pREP	integrin alpha 5	<i>Itga5</i>	0.71	0.50	2.08		
pREP	10 days neonat	<i>Itgav</i>	0.77	0.42	0.24		
pREP	integrin beta 1	<i>Itgb1</i>	0.77	0.65	0.72		
pREP	integrin beta 6	<i>Itgb6</i>	0.26	0.24	0.14		
pREP	matrix metallo	<i>Mmp10</i>	1.04	0.65	1.14		
pREP	matrix metallo	<i>Mmp11</i>	1.91	1.20	2.87		
pREP	matrix metallo	<i>Mmp12</i>	0.33	0.53	0.04		
pREP	matrix metallo	<i>Mmp13</i>	0.36	0.48	0.39		
pREP	matrix metallo	<i>Mmp14</i>	0.61	0.48	0.40		
pREP	matrix metallo	<i>Mmp15</i>	1.36	1.16	1.17		
pREP	matrix metallo	<i>Mmp16</i>	4.31	2.36	3.52		

pREP	matrix metalloproteinase <i>Mmp17</i>	3.54	2.31	5.01
pREP	matrix metalloproteinase <i>Mmp19</i>	0.23	0.19	0.40
pREP	matrix metalloproteinase <i>Mmp1a</i>	0.97	1.05	0.83
pREP	matrix metalloproteinase <i>Mmp1b</i>	0.79	0.83	1.13
pREP	matrix metalloproteinase <i>Mmp2</i>	0.84	0.66	0.63
pREP	matrix metalloproteinase <i>Mmp20</i>	0.57	0.72	0.89
pREP	matrix metalloproteinase <i>Mmp21</i>	1.25	0.70	0.83
pREP	matrix metalloproteinase <i>Mmp23</i>	0.25	0.18	0.37
pREP	matrix metalloproteinase <i>Mmp24</i>	62.69	85.91	67.63
pREP	matrix metalloproteinase <i>Mmp25</i>	1.63	1.72	3.29
pREP	matrix metalloproteinase <i>Mmp27</i>	0.12	0.04	0.02
pREP	matrix metalloproteinase <i>Mmp28</i>	0.33	0.59	0.44
pREP	matrix metalloproteinase <i>Mmp3</i>	1.50	1.08	0.02
pREP	matrix metalloproteinase <i>Mmp7</i>	0.66	0.67	0.45
pREP	matrix metalloproteinase <i>Mmp8</i>	0.08	0.19	1.69
pREP	matrix metalloproteinase <i>Mmp9</i>	10.01	17.37	1.08
pREP	plasminogen activator <i>Plat</i>	2.01	1.88	1.34
pREP	plasminogen activator <i>Plau</i>	0.41	0.35	0.15
pREP	transforming growth factor <i>Tgfa</i>	0.30	0.31	0.11
sREP	fibroblast growth factor <i>Fgf2</i>	0.65	0.48	1.07
REM	actin, alpha 2 <i>Acta2</i>	0.45	0.34	0.36
REM	collagen, type I <i>Col1a1</i>	1.00	0.94	1.11
REM	Rho-associated protein kinase <i>Rock1</i>	0.83	0.64	0.72
REM	Rho-associated protein kinase <i>Rock2</i>	0.19	0.14	0.29

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(PMID: 21204404).

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HEM - haemostasis REP – repair
INF - inflammation,
sREP- secondary repair
pREP- primary repair REM – remodelling

For Review Only