Cross-species comparative modelling of antimicrobial host responses *ex vivo* in human and murine precision cut lung slices and *in vivo* in mice

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Abstract:

In biomedical infectious disease research new models to bridge preclinical and clinical research are needed. Mouse models are still one of the most-interrogated experimental systems with the caveat of biological differences in pathogen-host-interaction for some human-relevant pathogens and increasing ethical concerns. Arguably one of the most complex cell culture models are precision cut organ slices, volume defined tissue blocks which can be cultured ex vivo and exposed to various stimuli including human pathogens. They could be applied as 3R model system. However, their response to infectious agents in comparison to *in vivo* models is understudied. To understand species and model specific differences in the host response (here: influenza A virus (IAV) and *Streptococcus pneumoniae* (Spn)), we interrogate here the transcriptional reaction of human PCLS (hPCLS) compared to that of murine precision cut lung slices (mPCLS) and a murine *in vivo* infection model. A direct comparison of hPCLS and mPCLS revealed a more complex early innate immune response against viral and bacterial pathogens in the human model, which beyond this informs about secondary cell-to-cell communication *in situ* and bystander cell responses to proinflammatory and antiviral cytokines secreted by tissue resident immune cells. In contrast, the murine PCLS model revealed substantial deficits in responding to viral challenge, reproducing only a small fraction of the murine *in vivo* host response. Our study provides the first cross-species comparison of early transcriptomic responses to relevant human pathogens.

47 **Introduction**

48 Respiratory infections with viral or bacterial pathogens were the 5th leading cause of death
49 worldwide and the leading cause of death in low income countries in 2021 (excluding COVID-
50 19) according to WHO estimations[1]. Realistic preclinical tissue culture models of the
51 respiratory tract are a prerequisite to understand antimicrobial host responses or microbial
52 pathology and to develop innovative antimicrobial therapies. Classical 2D cell culture models
53 do not reflect the cellular diversity and complex spatial 3D organization of respiratory tissue.
54 Human lung-on-a-chip models, lung organoids or stratified airway epithelial cells (often used
55 in air liquid interface) are mostly limited to the contribution of epithelial cells to lung infection
56 biology. The human lung consists of more than 50 cell types[2]. Exposure to the surrounding air
57 makes the lung mucosa an ideal entry port for airborne viral and bacterial pathogens. To study
58 the biology of these pathogens in a relevant environment we require better cell culture
59 models. Precision cut lung slices (PCLS) are *ex vivo* cultured, i.e. volume defined discs of
60 human or animal lung tissue and bridge conventional cell culture models and *in vivo* systems
61 [3,4]. They preserve the cellular composition and 3D architecture of lung tissue and are arguably
62 the most complex *ex vivo* model to study lung physiology[5].

63 We investigate here the host response of immune experienced human PCLS (hPCLS) to two
64 pathogens frequently infecting the human respiratory tract influenza A virus (IAV) and
65 *Streptococcus pneumoniae* (Spn). Our data reveal a complex pathogen specific transcriptional
66 response including gene sets induced by secreted type II interferon and IL-1β, suggesting
67 advanced communication between tissue-resident immune and non-immune cell types.

68

69 **Results**

70 The antimicrobial host response to pathogens in the respiratory tract is an
71 extraordinarily dynamic process relying on gene regulation in tissue resident cells in contact
72 with the microbe, communication with different bystander cell types and cellular infiltration
73 of blood circulating immune cells. Respiratory epithelial cell-based models like A549 or air-
74 liquid interface cultured normal human bronchial epithelial cells respond to challenge with a
75 typical respiratory virus like influenza A virus with a type I interferon driven antiviral gene
76 program[6,7]. In contrast, the transcriptional response to bacterial challenge is characterized by
77 interleukin signaling after TLR activation[8]. Given the higher cellular complexity, we first aimed
78 to understand what the PCLS model could additionally provide beyond the first line response
79 of respiratory epithelial cells. PCLS were cut from healthy bystander tissue of tumor resections
80 and maintained typical 3D architecture of human lung tissue (**Fig. 1A**). *Ex vivo* tissues were
81 cultured for several days without signs of cell death (**Fig. S1**). To estimate to what extend
82 hPCLS could recapitulate an antimicrobial host response, we decided to challenge this *ex vivo*
83 model with two typical respiratory pathogens: IAV (A/Netherlands/602/2009, H1N1) and Spn
84 (ATCC: (Klein) Chester 6303, serotype 3).

85 IAV replication peaked at 48h of infection (**Fig. 1B**) and then slowly declined (later time
86 points not shown), while live Spn was only recovered after 24h of infection (**Fig. 1C**). Later
87 time point revealed no replicating bacteria on the *ex vivo* tissues, most probably due to
88 autolysis since supernatants were also free of living Spn. Notably, we found little donor to
89 donor variation in the replication data, despite using tissues originated from different
90 anatomical locations of the lung and diverse underlying disease states (**Table S1**), supporting
91 the robustness of this model system for microbiological research. Both, IAV and Spn
92 penetrated the tissue discs to the center, with a general preference for larger airways (IAV

93 **Fig. 1D** and Spn **Fig. 1E**). RNAseq based transcriptomics analysis from hPCLS (n=5 patients)
94 infected for 24h with Spn or 48h with IAV, respectively, revealed a distinct antibacterial and
95 antiviral gene program activated by the respective pathogens albeit the Spn infected samples
96 only slightly shifted along PC1 as compared to control samples (**Fig. 1F).** In line with this, more
97 genes were differentially regulated by IAV infection (**Fig. 1G**), than by Spn infection (**Fig. 1H**).
98 In line with the PCA (**Fig. 1F)** the two gene sets induced by viral and bacterial infection did not
99 correlate well (**Fig. S2A**). We suspected differences in the underlying transcriptional relays.
100 IAV infection provoked a typical antiviral response driven by IRF3, NFκB and STAT1 (**Fig. S2B**).
101 In consequence we find type I, II and III interferons among the top 30 regulated genes as well
102 as multiple interferon stimulated genes (ISG) (**Fig. S2C**). Especially upregulation of IFNγ, IL-1α
103 and IL-1β is of interest in this model since it suggests the presence and activation of innate or
104 adaptive lymphoid cells as well as myeloid cells. Top downregulated genes were much more
105 heterogenous among patients and were not followed up on. A Reactome pathway analysis[9]
106 revealed accordingly enrichment for signaling pathways of interferon α/β and interferon-γ
107 signaling (**Fig. S2D**) as well as signaling by interleukins in the top-ranking pathways. In line
108 with this, we found pattern recognition receptor associated pathways with relevance for IAV
109 infection enriched in IAV infected hPCLS, notably RLR, TLR and NLR sensing (see full
110 enrichment analysis **Fig. S3**). Direct and indirect virus induced tissue damage is reflected by
111 overrepresentation of programmed cell death pathways. Enrichment for DNA repair
112 pathways in IAV infected hPCLS is in line with previous findings in IAV infected mice[10] and has
113 been shown to be essential for club cells when surviving IAV infections[11]. The here enriched
114 Notch and Wnt signaling pathways were previously implicated in stem cell responses in tissue
115 repair following IAV infection in mouse models[12]. Lastly, we found multiple pathways for
116 MHCI and II dependent antigen presentation enriched in IAV infected hPCLS (**Fig. S3**).

117 In sharp contrast, colonization with Spn induced a clearly distinct gene program in
118 hPCLS. Upregulated genes dependent predominantly on NFκB (**Fig. S2E**). Genes of
119 proinflammatory cytokines (IL1A and IL1B, IL6 and TNFA) were among the top 30 regulated
120 ones (**Fig. S2F**). Supporting this, a pathway enrichment revealed inflammasome related
121 pathways, proinflammatory IL-1 and TNF signaling and a complete absence of an interferon
122 signature (**Fig. S2G**). Il-1β is known to induce emphysema and airway remodeling in Spn
123 infected lungs *in vivo* (mice)[13]. TNFα was shown to limit Spn replication in lungs[14]. On the
124 flipside, we also found a strong enrichment for anti-inflammatory IL-10-signaling, which has
125 an ambivalent role in Spn pathology by reducing neutrophil recruitment[15]. This provides in
126 consequence survival advantages at high bacterial doses[16] and supports bacterial persistence
127 at low ones. Combined, our data suggest that the hPCLS model provides a distinct early
128 transcriptional response to viral or bacterial challenges with a strong immune component,
129 beyond classical epithelial based models.

130 To better understand the limits of the host response in PCLS we aimed to compare its
131 performance to a matching *in vivo* infection model. Transcriptomics data from lung tissue of
132 human autopsies after a severe influenza infection were previously performed using
133 Nanostring[17] or RNAseq technology[18]. However, these cases were mostly hospitalized for
134 longer time frames (up to 19 days[17]) and suffered from additional bacterial infections or
135 severe underlying conditions[19], making an interpretation of transcriptomic data extremely
136 difficult. We hence turned to a mPCLS model and compared it to *in vivo* mouse infections.
137 mPCLS were generated in line with previously published protocols[4,20]. Brightfield microscopy
138 underlined the anatomical differences as compared to hPCLS, notably with much larger
139 airspaces in the latter (**Fig. 2A**). Viability of mPCLS over time was evaluated by LDH release on
140 day 1-4 post preparation and ranges from 80-90% as compared to triton treated samples (**Fig.**

141 **S1**) in line with previous reports[21]. C57BL6/J mice or mPCLS thereof were infected for 48h
142 with IAV (as for the hPCLS model). IAV replicated to comparable titers *in vivo* and *ex vivo* when
143 adjusting for the tissue weight (**Fig. 2B**). As for the human model we found predominantly
144 infection around the larger airways (**Fig. 2C**). Not surprisingly the PCoA separated host
145 responses clearly between the two models, while the IAV induced shift of the global
146 transcriptome was less prominent especially in the *ex vivo* model (**Fig. 2D**). Accordingly, we
147 found substantially more genes differentially regulated *in vivo* that in mPCLS (**Fig. 2E, F and**
148 **G**). Regardless, IAV induced genes in mPCLS were generally also found upregulated in vivo
149 (**Fig. 2G**). Due to the high degree of DEGs exclusively regulated *in vivo*, the two gene sets were
150 poorly correlated (R^2: 0.5) (**Fig. 2H**). Upregulated genes in mPCLS were mostly driven by IRF3
151 and STAT2, while *in vivo* NFκB, STAT5B, NOD2 and IRF3 were the most significantly enriched
152 transcription factors (**Fig. S4A and S4B**)[22-24]. Only 50% of the top 20 upregulated genes *in vivo*
153 were reproducible in the mPCLS model (**Fig. S4C**). Inversely, the top regulated genes in mPCLS
154 were fully captured *in vivo* (**Fig. S4D**). Comparative Reactome analysis of mPCLS and *in vivo*
155 mouse responses to IAV revealed a strong enrichment for pathways involved in innate and
156 adaptive immunity in both models (**Fig. S4E** and **S4F**). Five of the top enriched pathways of
157 upregulated DEG overlapped between hPCLS and murine *in vivo* (**Fig. S4E** and **S2D**).
158 A common denominator of the antiviral response in human and murine hosts is the interferon
159 response[25]. In contrast to the *in vivo* infection model, IFNα and IFNλ genes were not
160 significantly upregulated in mPCLS. Notably, mPCLS were completely devoid of a type II
161 interferon response (**Table S2**). This suggests that the upregulation of ISGs depended mostly
162 on IFNβ in mPCLS. Accordingly, experimentally confirmed type II IFN dependent genes[26] were
163 not upregulated in mPCLS after IAV challenge, but type I/type III dependent were (**Fig. S4D**).
164 Strikingly the hPCLS model displayed a much broader, more *in vivo* like interferon response,

165 with robust upregulation of type I, II and III interferon mRNAs (as indicated above) and the
166 respective response genes. IFNγ is almost exclusively produce by lymphoid cells (NK, NKT,
167 $CD8^+$ T lymphocytes). We speculated that differences in the tissue resident immune cell
168 population could explain the lack of IFNγ production in mPCLS as compared to hPCLS. We
169 analysed baseline leucocyte counts in hPCLS and mPCLS by FACS (**Fig. 3** and gating strategy in
170 **Fig. S5 and S6**). Both lymphoid and myeloid panels showed substantial differences between
171 the two PCLS systems. mPCLS was rich in naïve CD4+ and CD8+ T lymphocytes but had few or
172 no effector memory cells and no NK or NKT cells, explaining the lack of IFNγ in response to
173 IAV infection. In contrast human tissues showed high prevalence of tissue resident effector
174 memory T lymphocytes as well as smaller NK and NKT cell populations (**Fig.3A and 3B**). Among
175 the myeloid cells, neutrophils and CD66b+ CD11c- CD11b+ HLA-DR+ cells dominated hPCLS.
176 In the murine *ex vivo* model, monocytes accounted for almost 50% of myeloid cells (**Fig.3C**
177 **and 3D**).
178 In average a human is exposed every 5-10 years to a new influenza virus[27]. These repeated
179 infections lead to an accumulation of tissue resident memory T cells. Influenza specific $_{trm}$T-
180 cells decline with advanced age in lung tissue, which could in part contribute to the reduced
181 antiviral response in elderly[28]. In contrast laboratory mice are usually immunologically naïve
182 to IAV. To verify if the lack of $_{trm}$T-cells contributes to the reduced antiviral response to IAV in
183 mPCLS we pre-infected mice with the same IAV strain and generated PCLS from those primed
184 mouse lungs one month after primo infection. Expression of typically upregulated genes of
185 the antiviral response was measured by qPCR after re-challenge of primed or unprimed PCLS
186 with the with the homologous virus same IAV strain. Surprisingly we did not observe a
187 generally heightened transcriptional response in IAV primed murine lung tissues (**Fig. 4A**)
188 despite the presence of memory T cells in tissue (see FACS data in **Fig 4B** and gating strategy

189 in **Fig. S7**). Irrespectively, viral replication was reduced in primed tissues as confirmed by qPCR
190 for viral RNA and by titration of viral supernatants (**Fig. 4C and 4D**). Our data hence suggest
191 an increase in viral defense one month after priming, which does not generally depend on an
192 upregulation of innate immune genes.
193 Lastly, we tested if cytokines secreted from tissue resident immune cells confer a
194 transcriptional response in hPCLS hence shaping the overall transcriptional response of *ex*
195 *vivo* cultured human lung tissue to microbial challenges. Exemplary, we blocked IFNγ and IL-
196 1β signaling with a mix of blocking antibodies targeting IFNγ and the IFNγ-receptor or anti IL-
197 1β, respectively. We compared the expression of strictly and partially IFNγ dependent genes
198 after IAV challenge or those dependent on IL-1β after challenge with Spn in hPCLS. Without
199 affecting the viral and bacterial replication (**Fig. 5A and B**) in the respectively treated tissues,
200 the blocking of IFNγ and IL-1β signaling reduced the respective antimicrobial tissue response
201 (**Fig. 5C and D**), confirming a robust cell-to-cell communication in this complex *ex vivo* model.
202

203 **Discussion**

204 The PCLS model gains rapidly importance in biomedical studies targeting lung pathologies and
205 pharmacological testing. mPCLS and hPCLS have been used to study the pathophysiology of
206 inflammatory lung diseases[29,30] and to test their response to disease relevant
207 proinflammatory stimuli[31]. In respiratory infectious disease research animal PCLS and hPCLS
208 gain more and more importance, e.g., to assess the action of antimicrobials in a relevant organ
209 context [32,33]. Others used PCLS models before to assess the innate immune response to viral
210 challenge[20,34] or to colonization with different mixes of commensal bacteria (mPCLS)[35]. Two
211 recent studies investigated viral replication and antiviral host responses in hPCLS by single cell
212 RNAseq from a single human donor[36,37]. *Ex vivo* culture lung tissue from COPD patients with

213 terminal lung emphysema was used to characterize early antiviral and antibacterial
214 responses, 24h after IAV, *Pseudomonas aeruginosa* or *Mycobacterium tuberculosis* (BCG)
215 challenge, by scRNAseq and bulk RNAseq[37]. Importantly, the authors noted a high donor
216 dependent variation in host responses. They further stated that the pre-inflamed state of
217 these tissues might not be fully representative of the antimicrobial response in healthy lung
218 tissue. This could explain why only a limited number of IAV upregulated genes were found as
219 compared to our study.
220 As for laboratory mice derived PCLS, the biological differences to hPCLS in responsiveness to
221 microbial infection stem likely from different genetics, metabolism, microbiome and baseline
222 immune status. The last point is of particular interest when studying infectious agents since
223 many in vivo studies rely on immunologically naïve animals. Our data indicate that mPCLS
224 from naïve mice rather poorly respond to IAV infection as compared to *in vivo* infections or
225 hPCLS. In part the lack of infiltrating immune cells into the PCLS model explains these
226 differences, but also the absence of tissue resident immune cells. Beyond this, especially
227 infiltrating monocytes and neutrophils are contributing substantially to the cytokine response
228 and eventually immune pathology observed during a severe viral pneumonia[38]. Hence
229 proinflammatory signaling was not faithfully reproduced especially in the naïve murine *ex vivo*
230 model. Exogenous addition of monocytes from blood or bone marrow might be a strategy to
231 compensate for the absence of a connection to the supply with blood derived immune cells
232 to overcome the limited antiviral response. PCLS from animals with multiple IAV encounters
233 could serve as a better model to mimic the immune history observed in human patients, who
234 on average undergo an IAV infection every 5-10 years[27]. Surprisingly, the innate antiviral host
235 response did not differ in these animals. We found for example no increased expression of
236 IFNγ, suggesting that tissue resident T-lymphocytes do not contribute to the increased

237 protection. Considering the high number of B lymphocytes in mPCLS, we suspect an antibody
238 mediated partial neutralization of viral infection.
239 Globally, we observed specific antiviral and antibacterial responses in both PCLS systems,
240 suggesting a clear distinction between the two types of pathogens. It must be noted that the
241 timing (48h IAV *vs* 24h Spn) could in part explain these differences. Notably, a recent report
242 indicated that PCLS undergo a spike of innate immune and inflammatory gene induction on
243 the day of cutting which wanes within 24h[21]. It is unclear how this mechanic induction of the
244 innate immune response affects a subsequent challenge with viral or bacterial pathogens.
245 The lack of IFNγ induction by IAV infection in mPCLS was suggesting that the early antiviral
246 response in *ex vivo* tissues naïve animals relies purely on a type I interferon responses. In
247 contrast antibacterial/proinflammatory signaling after Spn challenge was readily detectable
248 in mPCLS but less in hPCLS. This also suggests that mPCLS are not generally unresponsive to
249 microbial exposure. In fact, an important contributor to the antibacterial host responses in
250 mice is age. PCLS from aged mice display a stronger inflammatory reaction to bacterial PAMP
251 than tissues from young animals[39]. In hPCLS from aged patients however, we did not find a
252 robust gene induction after Spn colonization, inversely to the antiviral response. In fact, hPCLS
253 from one human patient did not upregulate innate immune response genes after Spn
254 challenge, but at the same time responded well to IAV, which suggest potentially an individual
255 response based on previous exposure to pneumococci and potentially depending on patient
256 specific subsets of tissue resident immune cells. Alternatively, tolerance mechanisms towards
257 this common pathobiont in the upper respiratory tract of humans might play a role in
258 dampening the antibacterial response. This could indicate that hPCLS could reflect the
259 individual exposure history of a given patient and hence be used to study the basic cellular
260 response in lung tissue based on immune history shaped cell composition. Such a tool would

261 be useful to predict innate responses in lung tissue of different age groups, e.g., to novel
262 influenza viruses, where preexisting immunity can play an important role to prevent mortality
263 in critical target groups as reported for the 2009 H1N1 pandemic[40]. IFI27 for example was
264 previously identified as marker for IFN responses in peripheral immune cells (monocytes and
265 conventional DC) of influenza virus infected human patients[41], suggesting that some of these
266 immune cells could reside in hPCLS. The shortage of human biopsy/autopsy material collected
267 early during an IAV infection makes it difficult to conclusively answer these questions.
268 On a more applied note, we think that hPCLS could be used to test antivirals or anti-
269 inflammatory drugs in a realistic environment with additional viral restriction provided by the
270 tissue resident immune cells and with an architecture and accessibility reflecting that of the
271 native tissue.
272

273 **Material and Methods**

274 **Ethics**

275 Human tissue was obtained from the thorax surgery of the university hospital Geneva (HUG)
276 and its use was approved under the license 2022-01942 by the CCER. Written patient consent
277 was provided. Animal experiments were approved by the cantonal authorities and
278 institutional animal welfare board under license number: GE216).

279 ***PCLS generation***

280 mPCLS: C57BL/6J mice (female, 7–10 weeks of age) were purchased from Charles River
281 Laboratories (France) and housed at least 7 days under SPF conditions with a strict 12h/12h
282 light/dark cycle and food and water at libitum. Animals were euthanized by intraperitoneal
283 injection of pentobarbital (150µg/g, Esconarkon®, Streuli Pharma, Uznach, Swtizerland) when
284 experimental or humane endpoints were reached. To collect lung tissues, the abdominal

285 cavity and the thoracic cage were opened surgically. The inferior vena cava was nicked, and
286 lung lavage was performed by PBS 1X injection into the heart right vena. Next, a catheter
287 (22G) was inserted in the trachea to perfuse the lungs with 2% low-melting-point agarose
288 warmed to 37°C (Sigma-Aldrich, A9414, diluted in DMEM/Ham's F12, Gibco). The mouse was
289 cooled at 4°C for 10 min, then the lung was excised and incubated 30 min at 4°C to let the
290 agarose solidified. The lobes were dissociated and murine PCLS (250µm thickness) were cut
291 with a Krumdieck tissue slicer (Alabama R&D, USA, MD600).
292 hPCLS: The use of human tissue was approved by the cantonal ethics committee of Geneva
293 (CCER, project number 2022-01942). Lung tissues were provided by the thorax surgery unit
294 of the University Hospital Geneva (Hôpitaux Universitaires de Genève, HUG). Tumor-free
295 tissue from lung cancer resection surgeries of 22 patients were collected for this work. The
296 average age was 66,7 (±10.7) years, 12 were females and 10 males. Concerning smoking
297 habits: 8 were active, 7 formers smokers, 3 non-smokers, and 4 were without information.
298 Location of the resected tissue was in lower left lobe (3), lower right (1), upper left (5), upper
299 right (10), middle right (2). Individual underlying disease state and medication are indicated
300 in **Table S1**. The lung segment was washed with PBS 1X and perfused with 2% low-meting-
301 point agarose thanks to catheters (22G). The solidification was allowed by 1h30 at 4°C on ice.
302 Using a coring press (Alabama R&D, USA MD500), tissue cylinders of 8mm diameter were
303 generated and transversally sliced into PCLS as described for mPCLS. PCLS were maintained
304 in 500µL DMEM/Ham's F12 (Gibco, supplemented with 100 U/mL penicillin and 100 µg/mL
305 streptomycin (Sigma-Aldrich, P0781) without FCS) in 24-wells plate at 37°C, 5% CO2. The
306 medium was changed 2 hours after cutting to remove the agarose, experiments were
307 performed the day after the cutting to allow tissue recovering and agarose dissolution. Tissue

308 integrity was confirmed with a brightfield microscope (Evos microscope system, Thermo
309 Fisher).

310 ***Bacteria***

311 Spn (ATCC: (Klein) Chester 6303, serotype 3) was grown in Trypticase Soy Broth (Oxoid, UK,
312 BO0369M) at 37°C with 5% CO_2 in static culture up to 0.4 optical density (OD600 nm). PCLS
313 infection was performed using 10^3CFU per well in the PCLS culture medium at 37°C, 5% CO_2.
314 The inoculum was removed after 4h incubation, PCLS were washed two times with PBS 1X
315 and fresh culture medium was added. The infection was stopped 24h post-inoculation.
316 Supernatants and tissues were collected. Tissues were homogenized with a BeadBlaster
317 homogenizer (Benchmark, D2400) using 1.4mm ceramic beads to determine bacterial titers
318 (Omni International, 19627). Serial dilutions were spotted on Trypticase Soy agar plates with
319 5% sheep blood (BioMerieux, M1006) at 37˚C with 5% CO2.

320 ***Viruses***

321 A/Netherlands/602/2009 (H1N1)[42] was kindly provided by Dr. Florian Krammer (Icahn School
322 of Medicine at Mount Sinai, New York, NY, USA). PCLS were infected with 10^5 PFU in 200µl of
323 PCLS medium per well. After 50 min of viral adsorption at 37°C, PCLS were washed with PBS
324 1X and incubated in fresh culture medium. Supernatants were collected at the indicated times
325 post infection and viral titers were determined by plaque assay in MDCK cells (Madin-Darby
326 canine kidney, ATCC).

327 ***Plaque assays***

328 MDCK cells were grown in DMEM (Dulbecco's Modified Eagle Medium, Gibco) supplemented
329 with 10% (vol/vol) heat-inactivated fetal bovine serum (Gibco) and 100 U/mL penicillin and
330 100 µg/mL streptomycin (Sigma-Aldrich, P0781). Cells (6-well plate format, 1,5 x 10^6
331 cells/well) were infected with 10-fold serial dilutions in PBS 1X 0,2% BSA of the virus for 50

332 min at 37°C. Supernatants were replaced by fresh overlay medium supplemented with 1
333 mg/mL of N-tosyl-L-phenylalanine chloromethyl ketone (TPCK)-treated trypsin (Sigma) and
334 0,6% purified agar (Oxoid) and plates were incubated at 37°C 5% CO_2. After 48 h, cells were
335 fixed for 1 h at RT with 4% paraformaldehyde (PFA) and the overlays were removed. Cells
336 were stained using a solution of 16% Methanol and crystal violet and plaques were counted
337 visually.

338 ***In vivo infection***

339 For inoculation with IAV or Spn mice were injected intraperitoneally with a mix of
340 ketamine/xylazine (100 mg/kg and 5 mg/kg, respectively) in 200 µl of sterile PBS. Upon
341 reaching deep anesthesia, mice were inoculated with 40 µl of PBS, virus (10^4 PFU) or bacterial
342 suspension (10^3 CFU) via the intranasal route. Lungs were collected after 48 hpi for IAV and
343 24hpi for Spn.

344 ***RNA extraction & RT-qPCR***

345 Tissue was stored at -80°C in RNA protect Tissue reagent (Qiagen, 76104, Germany). PCLS
346 were disrupted in the lysis buffer from the kit with 1.4mm ceramic beads (Omni International,
347 19627) using a BeadBlaster homogenizer (Benchmark, D2400). Then, RNA extraction was
348 performed with the NucleoSpin RNA XS kit (Macherey-Nagel, 740902), following the
349 manufacturer's instructions. Elution was done in 30µl of water. RNA concentration was
350 estimated by Nanodrop. 250 ng were used for reverse-transcription using the MMLV-RT
351 (Invitrogen, 28025013). Gene expression was assessed by quantitative PCR using 2X KAPA
352 SYBR FAST qPCR Master Mix-Universal (KAPA Biosystems, USA) and 10 µM of forward and
353 reverse primers (**Table S3**). PCR was realized with CFX Connect Real-Time PCR detection
354 system (Biorad) following this thermal cycling protocol: an initial denaturation step at 95 °C
355 for 10 min, followed by 45 cycles of denaturation at 95 °C for 15 s, annealing/extension at

356 61.5 °C for 60 s, with a final melting curve step from 60 to 95 °C with 0.5 °C increment. The
357 relative gene expression was calculated with the ΔΔCt method, using *hprt* (murine tissue) or
358 18s-rRNA (human tissue) genes for normalization.

359 ***Lactate dehydrogenase (LDH) assay***

360 To determine global cell suffering, LDH release was quantified daily into the PCLS supernatant
361 using the colorimetric test CYQUANT ™ LDH cytotoxicity assay kit (Invitrogen, C20300),
362 according to the manufacturer's recommendations.

363 ***RNAscope***

364 PCLS from mice and human were collected under sterile conditions, fixed in PBS 1X -
365 paraformaldehyde 4% solution overnight at 4°C and embedded in paraffin and sliced using a
366 standard microtome (5 µM thickness). *In situ* detection of *Streptococcus pneumoniae*
367 (RNAscope® Probe - B- S. pneumoniae -SPN23F12870-C2, accession number: FM211187.1,
368 nucleotides: 2-753) and IAV (RNAscope® Probe V - Influenza A - H1N1 – segment 5 – NP - O8
369 -C1, accession number: CY176945.1) was performed using the RNAscope 2.5 HD Assay - RED
370 (Advanced Cell Diagnostics) according to the manufacturer's protocol. Briefly, tissue slices
371 were deparaffinized by 1h incubation at 60°C followed by four rounds in 100% xylol and four
372 rounds in 100 % ethanol solutions. An incubation with hydrogen peroxide was performed for
373 10 min and target retrieval was achieved by incubating the slides with RNAscope 1x Target
374 Retrieval Reagent for 45 min at 95°C. Tissue was permeabilized using RNAscope protease plus
375 for 30 min (Advanced Cell Diagnostics). Probe hybridization was performed with a specific
376 RNA probe for IAV or Spn for 2 h at 40°C. Signal amplification was achieved by incubating the
377 tissues at 40°C with AMP solutions provided by the kit. Cyanine 3 and cyanine 5 were used as
378 fluorophores respectively for IAV and Spn. Slides were counterstained with Prolong Diamond

379 Antifade Mountant with DAPI (Invitrogen, P36962). Slides were visualized under Nikon A1r
380 spectral microscope under a x10/20 objective and processed using Zen Software.

381 ***Transcriptomic analysis***

382 RNA was extracted as described before at the replication peak of each pathogen (48h for IAV,
383 24h for Spn). RNAseq (30 million reads per sample (triplicates for each murine condition, five
384 patients samplings for hPCLS) was performed at the iGE3 Genomics Platform at the University.
385 Analysis of these data was realized with the help of the Bioinformatics Support Platform
386 (UNIGE). Libraries were prepared with the Illumina TruSeqHT Stranded mRNA protocol and
387 sequenced on Illumina NovaSeq 6000 sequencer. Sequenced reads were mapped with HISAT2
388 aligner either to the mouse genome GRCm39 (source: ensembl 110) or to the human genome
389 GRCh38.p14 (source: ensembl 110). Read-count quantification was extracted with the
390 method summarizeOverlaps() from R package GenomicAlignments. The code and softwares
391 used in the analysis were packaged into a docker container made publicly available at
392 https://github.com/BioinfoSupport/ngs (container), https://github.com/
393 BioinfoSupport/rnaseq (mapping and quantification pipeline), and
394 https://github.com/BioinfoSupport/genomes (for HISAT2 indexed genomes).

395 Gene orthologs relationships between mouse and human organisms were retrieved from
396 Ensembl 110 with BioMart tool and exported as TSV tables for processing in R
397 (http://jul2023.archive.ensembl.org/biomart/martview).

398 Normalization, differential gene expression analysis, and data visualization were conducted
399 with the R programming language. Package DESeq2 was used to asset the statistical
400 significance of differential gene expressions (**Table S4**). More specifically, we conducted 3
401 independent DESeq2 analyses to take into consideration samples pairing: A) one with 6
402 unpaired samples of the mouse in vivo conditions (mIV_mock, mIV_IAV); B) another with the

403 6 paired-samples of the mouse PCLS conditions (mPCLS_mock, mPCLS_IAV); C) a last with 15
404 paired samples of the human PCLS conditions (hPCLS_mock, hPCLS_Spn, hPCLS_IAV). The
405 details of the samples used in each set is given in **Table S5** "RNA-seq Samples description".
406 Pathway enrichment analysis was done under the R programming language with
407 hypergeometric tests against Reactome.org database. Transcription factor enrichment
408 analysis was realized using EnrichR[22-24].

409 ***Flow cytometry***

410 One day after slicing, 14 PCLS per condition were washed with cold PBS 1X and pooled
411 together. Cell dissociation was performed for 45 minutes at 37°C (aggitation) with PBS +5%
412 FBS with 0.5 mg/mL Collagenase D and 0.1mg/mL DNaseI. Cells were centrifugated 5 min at
413 300g. Red blood cell lysis was performed with ACK buffer for 4 minutes at RT. The reaction
414 was stopped with RPMI 10% FBS and cells were spined and washed in PBS.
415 Cells were stained 15 min at RT with Fixable Viability Dye (Invitrogen, 1:1000 in PBS 1X) and
416 FC blocking was performed with 0.25µg of TruStain FcX PLUS (Biolegend) in 100µL of MACS
417 before staining. Cells were then stained 15 min on ice with surface markers antibodies
418 resuspended in MACS buffer (PBS-0.5% BSA- 2mM EDTA) according to the panel. Antibodies
419 references are indicated in **Table S6**. Cells were fixed with 200 µL of IC Fixation Buffer
420 (Thermofisher) for 30 min at RT. Samples were centrifugated at 450g at RT for 5 min. Cells
421 were resuspended in an appropriate volume of MACS buffer and the samples were run on
422 LSRII Fortessa instrument (BD Biosciences).

423 ***IFNγ and IL-1β blocking experiment in hPCLS.***

424 hPCLS were infected with 10^5 PFU of H1N1, after 50 min incubation, PCLS were washed 2
425 times with PBS 1X and culture medium containing 1µg/ml of antibody anti-IFNγ (R&D

426 Systems, MAB285, clone 25718) and 1µg/ml of antibody anti- IFNγ receptor (R&D Systems,
427 MAB6731, clone 92101) was added. Tissues and supernatants were collected 48 hpi.
428 In parallel, hPCLS were infected with 10^3 CFU of Spn, after 4h of attachment, PCLS were
429 washed 2 times with PBS 1X and culture medium containing 10µg/ml antibody anti-ILβ (R&D
430 Systems, MAB601, clone 2805) was added. Tissues and supernatants were collected 24hpi.

431 ***Statistical analysis***

432 Statistical analysis was performed using GraphPad Prism 9 and statistical tests applied as well
433 as the number of biological and technical repeats are indicated in each respective figure
434 legend.

435

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444

445

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569

570 **Figure Legends**

571 **Figure 1: Antimicrobial host response to viral or bacterial challenge of the human PCLS**
572 **model**

573 Human PCLS were infected with 10^5 pfu of IAV (A/Netherlands/602/2009/H1N1) for 48h or
574 with 10^3 cfu of Spn (Klein Chester ATCC 6303, serotype 3) for 24h. **A)** Brightfield picture of an
575 untreated human PLCS in culture (magnification X100). **B)** Viral titers form supernatants of
576 infected PCLS of three patients were measured in duplicates 24 and 48hpi by plaque assay. **C)**
577 Bacterial titers from supernatants of PCLS from five patients were measured in duplicates at
578 24hpi. **D-E)** In situ RNA hybridization of viral nucleoprotein (**D**, Cyanine 3) or dnaA (**E**, Cyanine
579 5) was used to visualize IAV at 48hpi **(D)** or Spn at 24hpi **(E)** in hPCLS sections. Magnification
580 x200. Size bar is representing 50 µm. Mock are uninfected hPCLS. **F-H)** Bulk RNA sequencing
581 was realized on hPCLS from five patients. Analysis was conducted using R. **F)** Principal
582 component analysis illustrates of the global transcriptomics response of mock treated
583 (green), IAV infected (48hpi) (orange) and Spn infected 24hpi (purple) hPCLS. **G-H)** Volcano
584 plot showing differentially expressed genes between IAV **(G)** or Spn **(H)** infected and mock
585 treated samples. Log_2 fold-change induction is indicated in the x-axis, p-adjusted in the y-axis.
586 Genes have been represented in: orange (upregulated), blue (downregulated), grey (not
587 significant). Genes associated to immune system pathways are represented in black.

588

589 **Figure 2: Comparative transcriptomic analysis of the early host response to Influenza A virus**

590 **in murine lung *in vivo* and *ex vivo***

591 **A)** Brightfield picture of an untreated murine PCLS. Mice and mPCLS were respectively

592 infected with $10^4/10^5$ PFU of IAV (A/Netherlands/602/2009/H1N1) for 48h. **B)** Titers were

593 measured on lung (N=3) and mPCLS (N=4, duplicates). **C)** In situ RNA hybridization of viral

594 nucleoprotein (**D**, Cyanine 3) was used to visualize IAV at 48hpi in mPCLS sections. Confocal

595 observation was done at magnification x100 (on the left) and x200 (on the right). Size bar is

596 respectively representing 100/50 µm, respectively. **D-H)** Tissue was processed to bulk RNA

597 sequencing and host response was analyzed using R programming. **D)** Principal component

598 analysis illustrates the transcriptional response of mock treated (green) and IAV-infected lung

599 tissue (purple). **E)** Volcano plot showing differentially expressed genes between IAV-infected

600 and mock samples in mouse *in vivo* (left) and in mPCLS (right). Log_2 fold-change induction is

601 indicated in the x-axis, $-log_{10}$(p-adjusted) in the y-axis. Genes have been represented in:

602 orange (upregulated), blue (downregulated), grey (not significant). Genes associated to

603 immune system pathways are depicted in black. **F)** Venn diagrams of the commonly

604 upregulated (orange) or downregulated (blue) genes in mouse *in vivo* and mPCLS infected

605 with IAV. The white circle indicates the genes related to immune system pathways. **G)** Alluvial

606 diagram represent the transcriptional changes in the IAV-induced host response *in vivo* and

607 in mPCLS. **H)** Scatter plot comparing the genes regulated by IAV in mouse *in vivo* (log_2 Fold

608 Change in x-axis) and in mPCLS (log_2 Fold Change in y-axis). Correlation is indicated with R

609 Pearson coefficient (R=0.5). Color legend indicates the direction for mouse *in vivo*/mPCLS

610 genes regulated.

611

612 **Figure 3: mPCLS and hPCLS contain a distinct set of immune cells**

613 Untreated PCLS were enzymatically digested one day after slicing in order to baseline
614 composition of lymphoid **(A-B)** and myeloid **(C-D)** immune cells. Results are presented in % of
615 total lymphoid population **(A)** and in % of total myeloid population **(C)**. % of cells and their
616 markers are indicated in **(B)** and **(D)** (N=3).
617
618 **Figure 4: Characterization of the innate immune response in IAV-primed mPCLS**
619 Mice were intranasally primed with PBS or 40pfu of A/Netherlands/602/2009/H1N1 (N=3,
620 duplicates). One month later, mice were sacrificed and mPCLS were generated and
621 homologously re-infected with 10^5 pfu of IAV for 48h. **A)** RT-qPCR on innate immune genes
622 was performed 48hpi. Fold change over mock are represented. **B)** Flow cytometry was
623 conducted on untreated mPCLS from PBS or IAV-primed mice. Lymphoid cell population was
624 quantified. **C)** Viral replication was measured at 48hpi by RT-qPCR on M1 gene on IAV-
625 infected PCLS from PBS and IAV-primed mice. **D)** Viral titers 48 hpi were measured by plaque-
626 assay. Statistical analysis was done with a t-test (N=3, each symbol represents one
627 independent experiment). PBS-primed mPCLS are represented in white boxes and IAV-primed
628 mPCLS in blue boxes. p-values are indicated in black when >0.05 and in red when <0.05
629
630 **Figure 5: IFNγ and IL-1β contribution in early host response to IAV or Spn in hPCLS.**
631 hPCLS have been infected 48h with IAV (10^5 pfu) and co-treated with an inhibitory cocktail
632 blocking IFNγ signaling (antibody anti-IFNγ 1µg/ml/ antibody anti-IFNγ receptor 1µg/ml) **(A,C)**
633 or infected with 24h with Spn (10^3 cfu) and co-treated with an IL-1β blocking antibody
634 (10µg/ml) (N=3, duplicates) **(B,D)**. Viral **(A)** and bacterial **(B)** titers have been measured. RT-
635 qPCR has been realized on a panel of genes specifically or partially regulated by IFNγ for AV
636 infection **(C)** or on a panel of genes associated to IL-1β signalling for Spn infection **(D)**.

637 Statistical significance was established with student's t-test (N=3, each symbol represents one
638 independent experiment), p-values are indicated in black when >0.05 and in red when <0.05.
639 White boxes are the infected hPCLS (IAV or Spn), grey boxes are co-treated with the
640 corresponding inhibitory cocktail (IAV/anti-IFNγ or Spn/anti-IL-1β).
641
642 **Supplementary figures:**
643 **Figure S1: Viability of mPCLS and hPCLS in culture.**
644 Cell death was measured in mPCLS (in green) and hPCLS (in gray) by quantification of LDH
645 release upon 4 days post-slicing. Positive control of cell death (100%) was realized with triton
646 10X treatment (N=3, duplicates).
647
648 **Figure S2: Gene enrichment analysis of hPCLS infected with Influenza A virus and Spn**.
649 **A)** Scatter plot comparing the genes regulated by IAV (log_2 Fold Change in x-axis) and Spn (log_2
650 Fold Change in y-axis) in hPCLS. Correlation is indicated with R Pearson coefficient (R=0.47).
651 Color legend indicates the direction for IAV/Spn regulated genes. **B-E)** Transcription factor
652 enrichment analysis was conducted using EnrichR platform for IAV **(B)** and Spn **(D)** host
653 responses. Only transcription factors significantly enriched are indicated. Odds ratios are
654 indicated in x-axis and p-value in y-axis. **C-F)** Heatmaps of the top 30 genes significantly
655 upregulated (brown) and downregulated (blue) by IAV 48 hpi **(C)** and by Spn **(F)** in hPCLS from
656 5 patients. Genes are ranked by the log_2 Fold Change. **D-G)** Pathway enrichment analysis was
657 conducted using Reactome database. The top 10 pathways upregulated are shown for IAV **(D)**
658 and Spn **(G)** responses. $-log_{10}$ p-adjusted is given by a color scale. Coverage percentage of the
659 pathway set is indicated by the size of the dot. Pathways are indicated with the total number

660 of genes in brackets and the number of genes significantly regulated are indicated next to the
661 dot.
662
663 **Figure S3: Gene enrichment analysis of hPCLS infected with Influenza A virus for 48h.**
664 Pathway enrichment analysis was conducted using Reactome database. -$\log_{10}$(p-adjusted) is
665 given by a color scale. Coverage percentage of the pathway set is indicated by the size of the
666 dot. Black-surrounded dots indicate the enrichment is significant. Pathways are indicated with
667 the total number of genes in brackets and the number of genes significantly regulated are
668 indicated next to the dot. Total number of genes downregulated or upregulated are indicated
669 at the bottom of the corresponding column.
670
671 **Figure S4. Pathways enrichment analysis in response to Influenza A virus in murine lung *in*
672 *vivo* and *ex vivo*** A-B) Transcription factor enrichment analysis was conducted using EnrichR
673 platform for mouse in vivo **(A)** and mPCLS **(B)** response to IAV. Only transcription factors
674 significantly enriched are indicated. Odds ratios are indicated in x-axis and p-value in y-axis.
675 **C-D)** Heatmaps of the top 20 genes significantly upregulated (brown) and downregulated
676 (blue) by IAV 48 hpi in mouse in vivo **(C)** and in mPCLS **(D)**. Genes are ranked by the $\log_2$ Fold
677 Change. **E-F)** Pathway enrichment analysis was conducted using Reactome database. The top
678 10 pathways upregulated are represented for mouse in vivo **(E)** response and mPCLS response
679 **(F)**. -$\log_{10}$ p-adjusted is given by a color scale. Coverage percentage of the pathway set is
680 indicated by the size of the dot. Pathways are indicated with the total number of genes in
681 brackets and the number of genes significantly regulated are indicated next to the dot.
682
683 **Figure S5: Flow cytometry gating strategy to describe immune cells in human PCLS**

684 Examplary gating strategy is shown for **A)** Lymphoid cell panel **B)** Myeloid cell panel

685

686 **Figure S6: Flow cytometry gating strategy to describe immune cells in murine PCLS**

687 Examplary gating strategy is shown for **A)** Lymphoid cell panel **B)** Myeloid cell panel

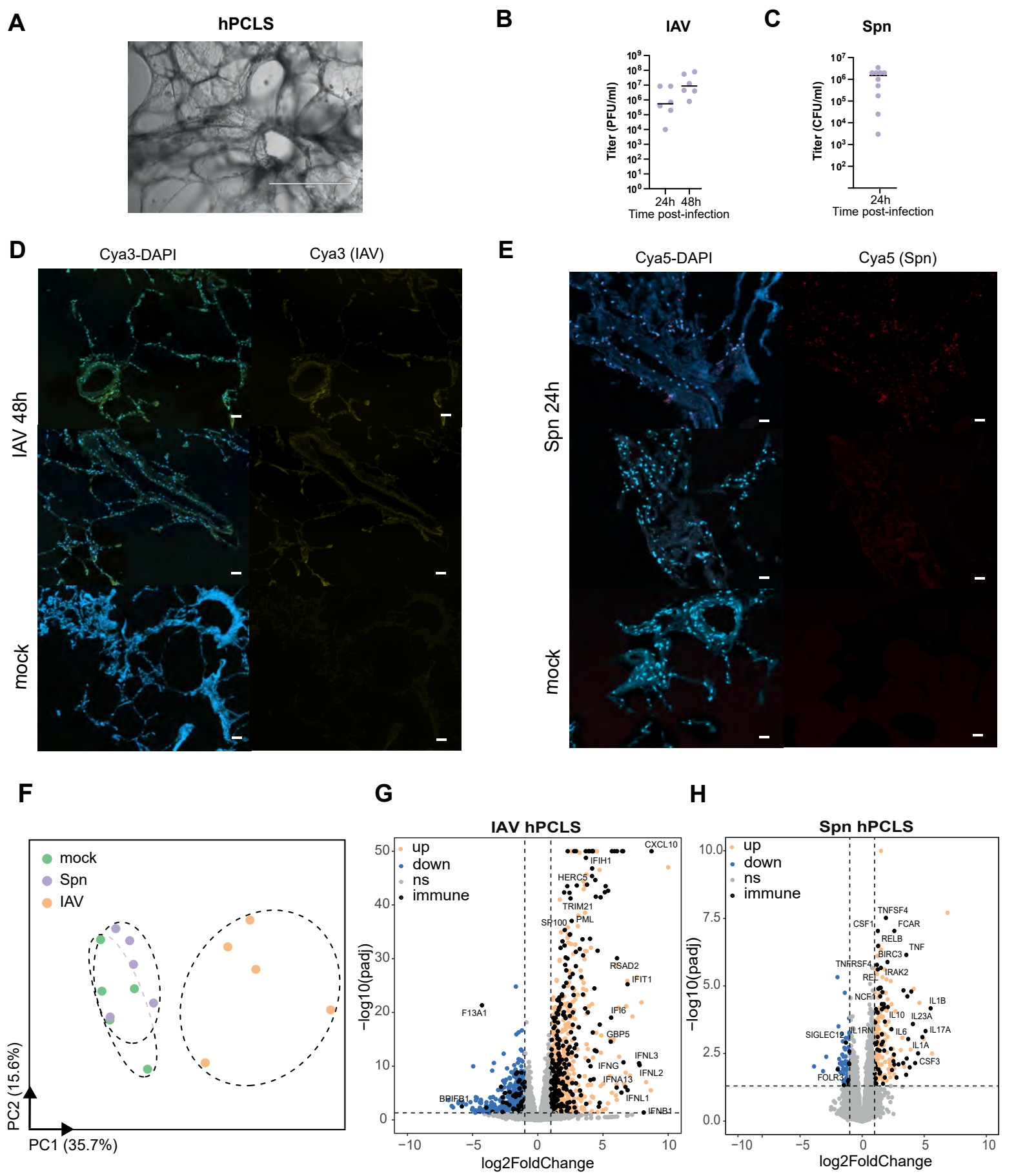
688

689 **Figure S7: Flow cytometry gating strategy to describe resident memory lymphoid cells in**

690 **murine PCLS**

691 Examplary gating strategy is shown for a lymphoid cell panel

692


A
hPCLS
B
IAV
Titer (PFU/ml)
24h 48h
Time post-infection
C
Spn
Titer (CFU/ml)
24h
Time post-infection
D
Cya3-DAPI
Cya3 (IAV)
IAV 48h
mock
E
Cya5-DAPI
Cya5 (Spn)
Spn 24h
mock
F
mock
Spn
IAV
PC2 (15.6%)
PC1 (35.7%)
G
IAV hPCLS
up
down
ns
immune
CXCL10
IFIH1
HERC5
TRIM21
SP100
PML
RSAD2
IFIT1
IFI6
GBP5
IFNL3
IFNG
IFNL2
IFNA13
IFNL1
IFNB1
F13A1
BPIFB1
−log10(padj)
log2FoldChange
H
Spn hPCLS
up
down
ns
immune
TNFSF4
CSF1
FCAR
RELB
TNF
BIRC3
TNFRSF4
IRAK2
REL
NCF1
IL1B
IL10
IL23A
IL6
IL17A
IL1A
CSF3
SIGLEC12
IL1RN
FOLR3
−log10(padj)
log2FoldChange

Tools Edit Convert E-Sign
Your files / Figure 2-compressed PDF
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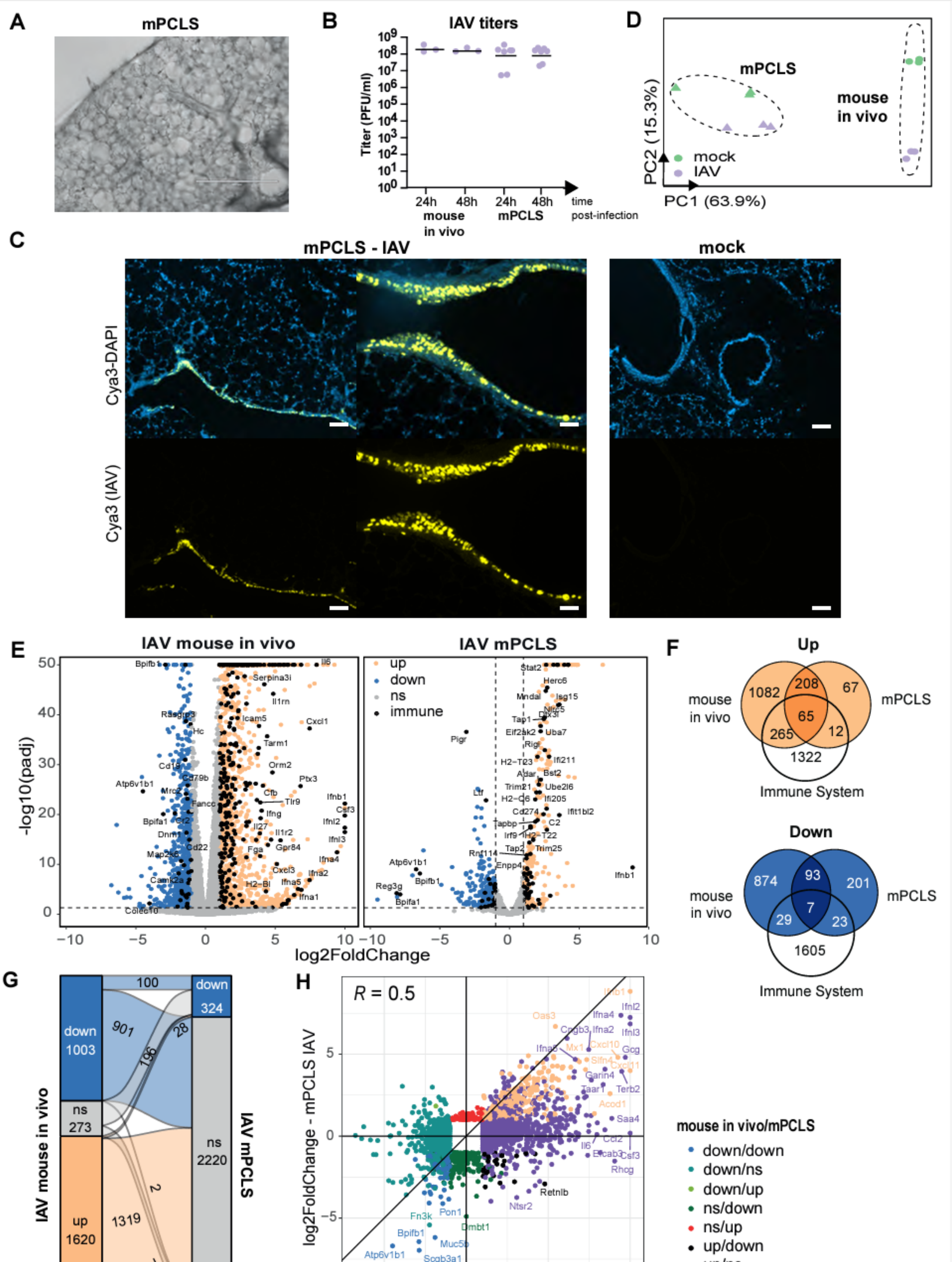
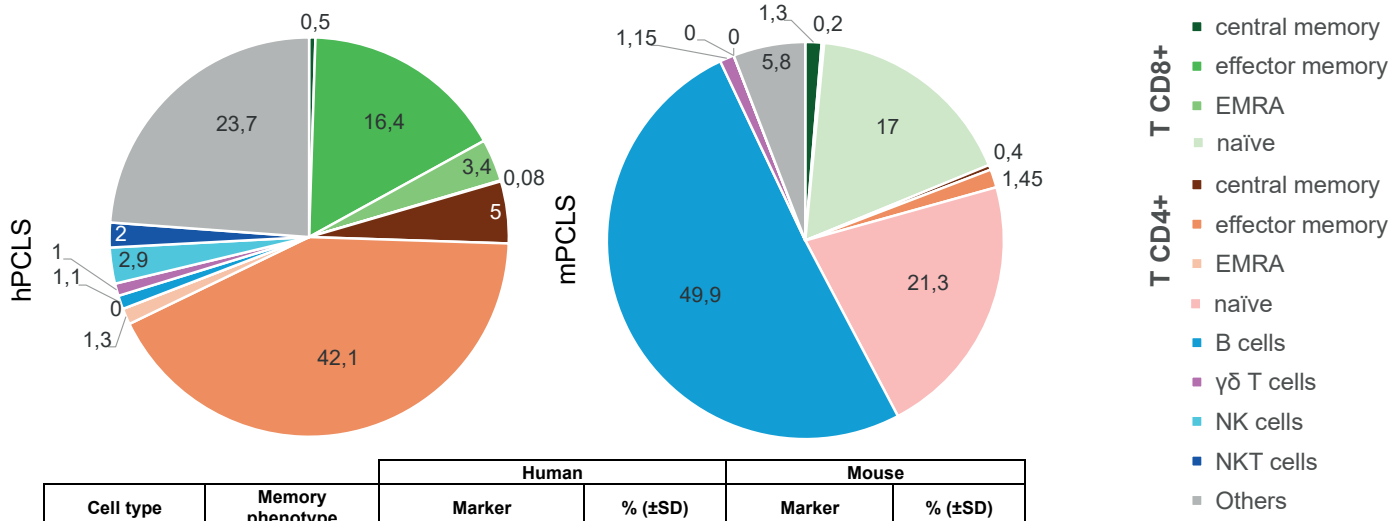
Hi, Mirco
Welcome to Acrobat. Select a tool to get started.
DID YOU KNOW? See more
Use AI Assistant with multiple files
Chat with a collection of up to 10 files for more insights.
Select files
YOU MAY LIKE
Ask AI Assistant
Generate a summary
Export a PDF
Request e-signatures
Organize pages
Edit text & images
Share
Compress a PDF
Combine files
PDF to JPG



A

LYMPHOID CELLS

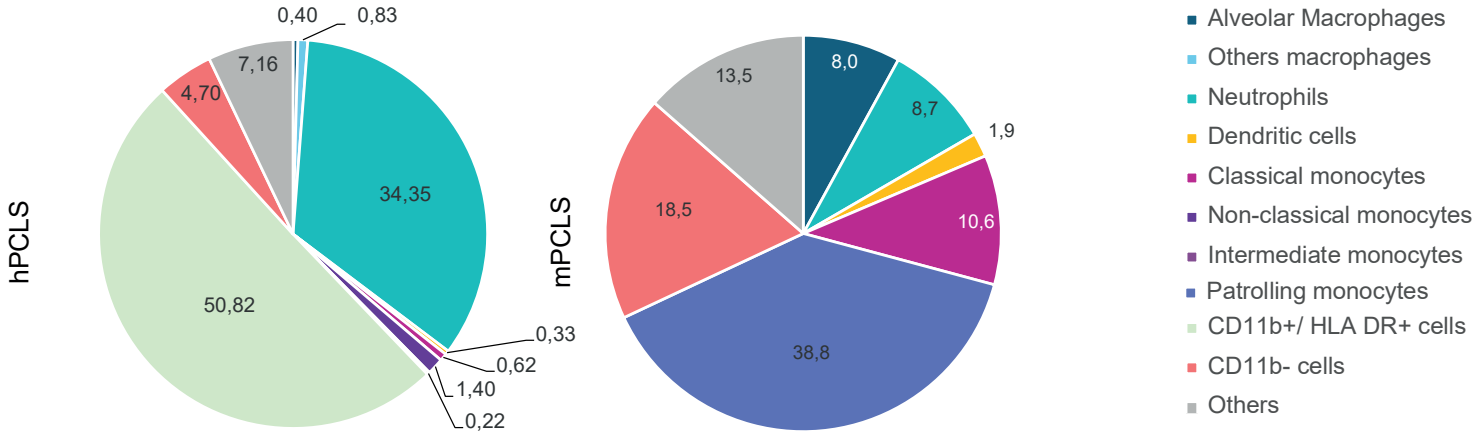


B

		Human		Mouse	
Cell type	**Memory phenotype**	**Marker**	**% (±SD)**	**Marker**	**% (±SD)**
Lymphoid population					
CD8+ αβ T cells	**central memory**	CD3+, CD8+, CD45RA-, CCR7+	0,5 (0,6)	CD3+, CD8+, CD62L +, CD44 +	1,3 (0,2)
	effector memory	CD3+, CD8+, CD45RA-, CCR7-	16,4 (4,4)	CD3+, CD8+, CD62L -, CD44 +	0,2 (0,05)
	EMRA	CD3+, CD8+, CD45RA+, CCR7-	3,4 (1,4)	-	-
	naïve	CD3+, CD8+, CD45RA+, CCR7+	0,08 (0,03)	CD3+, CD8+, CD62L +, CD44 -	17 (1,3)
CD4+ αβT cells	**central memory**	CD3+, CD4+, CD45RA-, CCR7+	5 (5,9)	CD3+, CD4+, CD62L +, CD44 +	0,4 (0,08)
	effector memory	CD3+, CD4+, CD45RA-, CCR7-	42,1 (9,3)	CD3+, CD4+, CD62L -, CD44 +	1,45 (0,2)
	EMRA	CD3+, CD4+, CD45RA+, CCR7-	1,3 (1,8)	-	-
	naïve	CD3+, CD4+, CD45RA+, CCR7+	0,3 (0,08)	CD3+, CD4+, CD62L +, CD44 -	21,3 (2,3)
B cells		CD19+	1,1 (0,1)	CD19+	49,9 (4,5)
γδ T cells		TCR γδ +	1 (1,2)	TCR γδ +	1,15 (0,1)
NK cells		CD 56+, CD3 -	2,9 (2,5)	NK1.1 +, CD3 -	0 (0)
NKT cells		CD56 +, CD3 +	2 (1,3)	NK1.1 +, CD3 +	0 (0)
Others		-	23,7 (12,52)	-	5,8 (0,6)

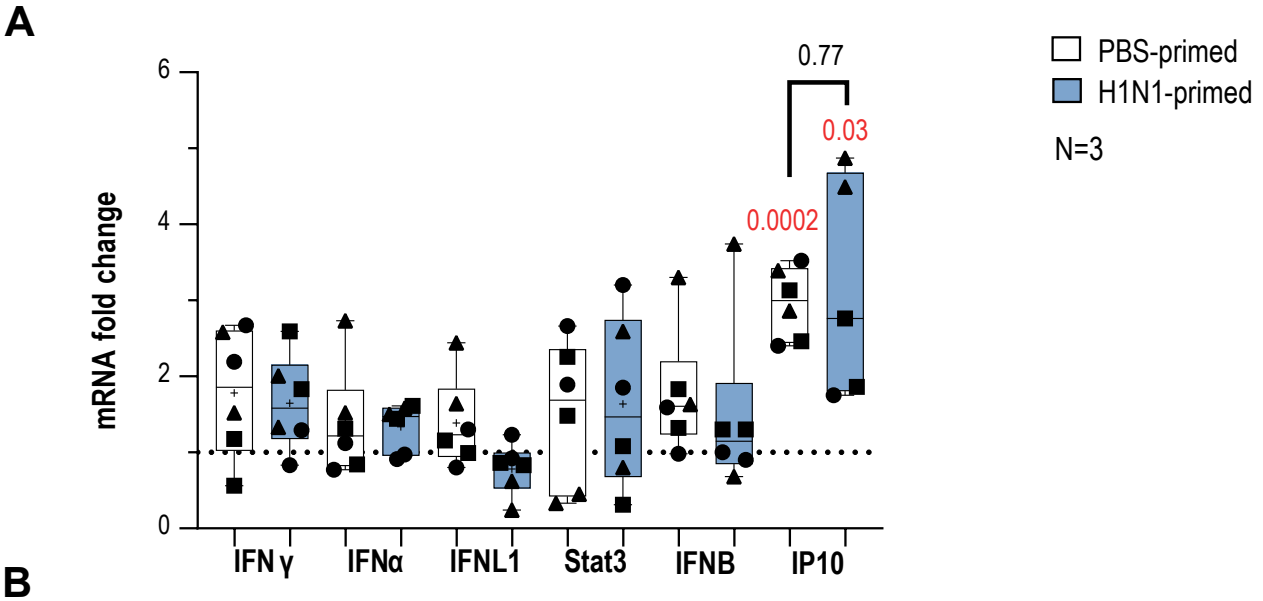
C

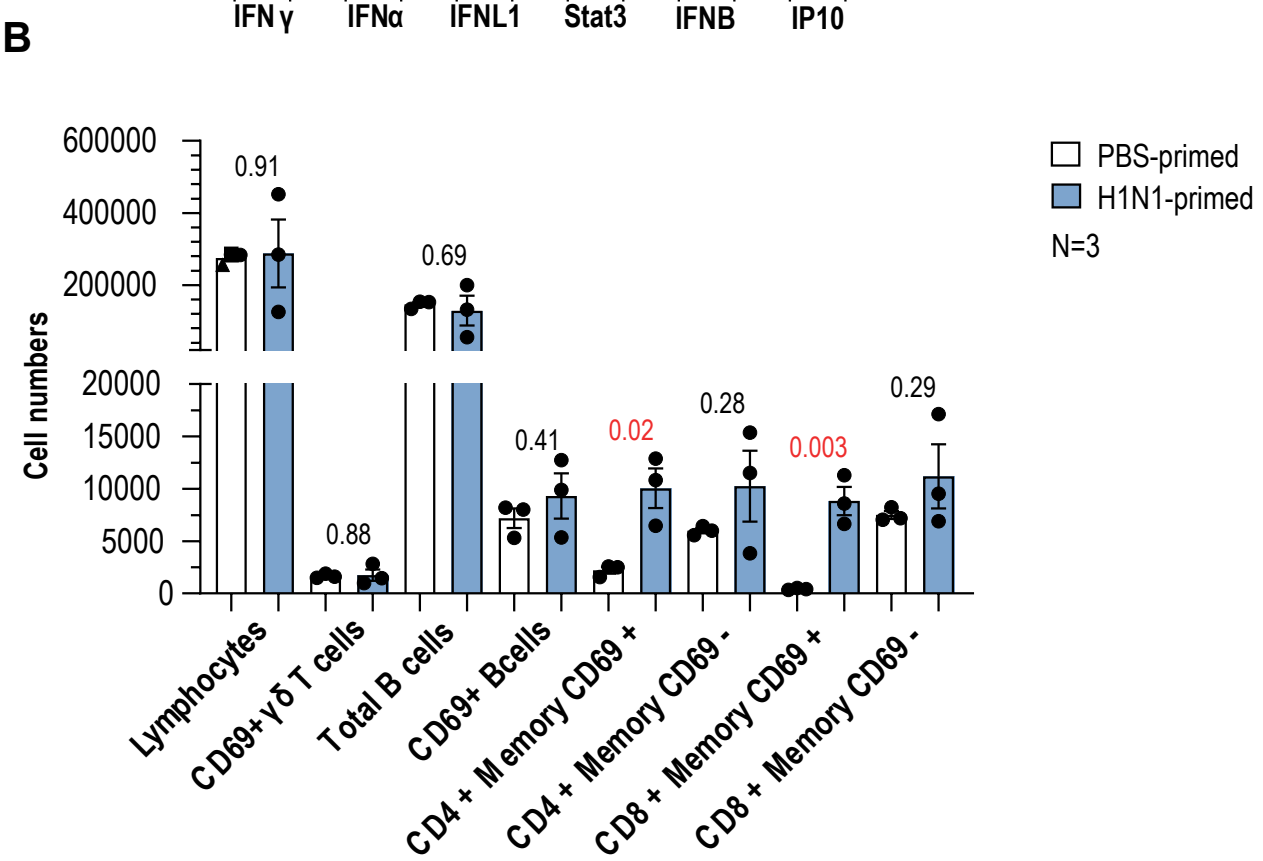
MYELOID CELLS

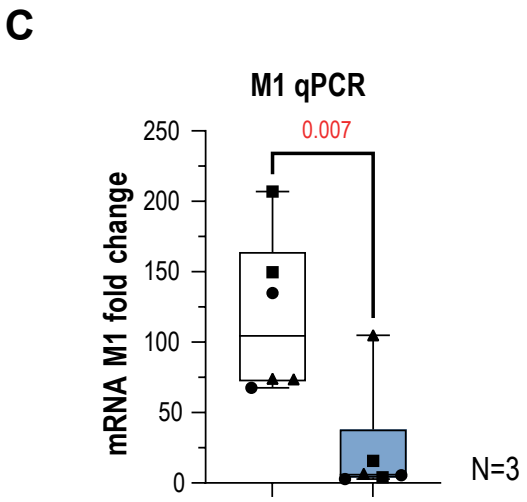


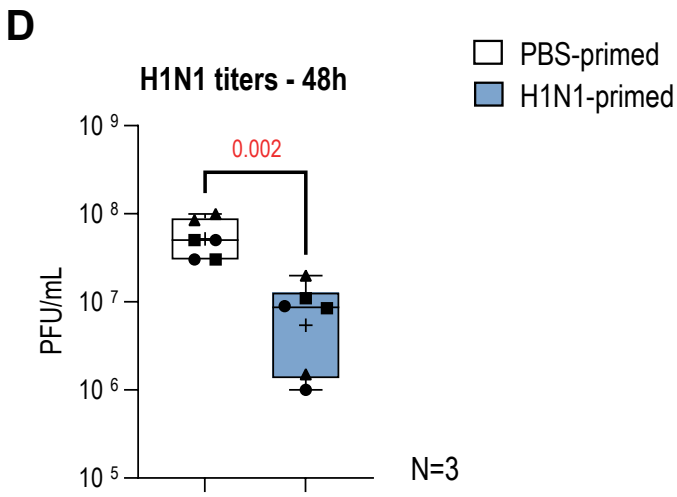
D

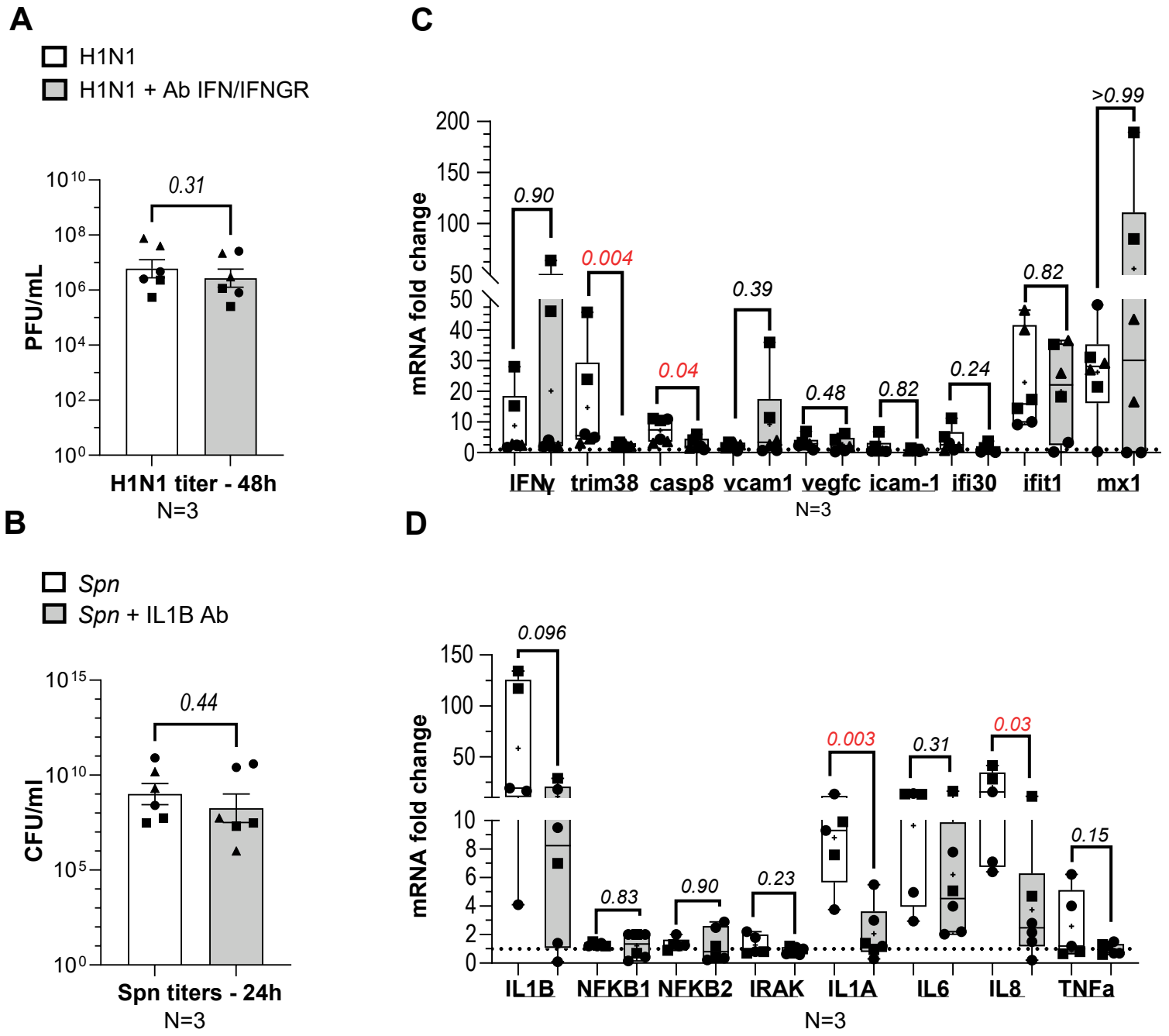
Myeloid population					
Macrophages	**Alveolar macrophages**	CD68 +, CD 206 +	0,4 (0,5)	SiglecF +, CD11c +	8 (1,7)
	Others macrophages	CD68 +, CD206 -	0,8 (0,7)	-	-
Neutrophils		CD66b+, CD16 +	34,4 (45,1)	Ly-6G +	8,7 (1,9)
Dendritic cells		HLA-DR +, CD11c +	0,3 (0,5)	MHCII +, CD11c +	1,9 (0,7)
Monocytes	**Classical monocytes**	HLA-DR +, CD14 +	0,6 (0,4)	Ly-6C +	10,6 (1,1)
	Non- classical monocytes	HLA-DR +, CD16 +, CD14 -	1,4 (1,2)	-	-
	Intermediate monocytes	HLA-DR +, CD16 +, CD14 +	0,2 (0,1)	-	-
	Patrolling monocytes	-	-	Ly-6C low	38,8 (5,4)
CD11 b negative cells		CD3 -, CD 19- CD56-, CD11b -	4,7 (1,9)	CD3 -, CD 19- NK1.1-, CD11b -	18,5 (1,6)
CD11 b +/ HLA-DR+ cells		CD66b-, CD11c-, CD11b +, HLA-DR +	50,8 (39,6)	-	-
Others		-	7,2 (2,1)	-	13,5 (1,6)


A
mRNA fold change
6
4
2
0
0.77
0.03
0.0002
IFN γ
IFNα
IFNL1
Stat3
IFNB
IP10
PBS-primed
H1N1-primed
N=3


B
Cell numbers
600000
400000
200000
20000
15000
10000
5000
0
0.91
0.69
0.88
0.41
0.02
0.28
0.003
0.29
Lymphocytes
CD69+γδ T cells
Total B cells
CD69+ Bcells
CD4+ Memory CD69+
CD4+ Memory CD69-
CD8+ Memory CD69+
CD8+ Memory CD69-
PBS-primed
H1N1-primed
N=3


C
M1 qPCR
mRNA M1 fold change
250
200
150
100
50
0
0.007
N=3


D
H1N1 titers - 48h
PFU/mL
10 9
10 8
10 7
10 6
10 5
0.002
N=3
PBS-primed
H1N1-primed


A
H1N1
H1N1 + Ab IFN/IFNGR
PFU/mL
0.31
H1N1 titer - 48h
N=3
B
Spn
Spn + IL1B Ab
CFU/ml
0.44
Spn titers - 24h
N=3
C
mRNA fold change
0.90
0.004
0.04
0.39
0.48
0.82
0.24
0.82
>0.99
IFNγ
trim38
casp8
vcam1
vegfc
icam-1
ifi30
ifit1
mx1
N=3
D
mRNA fold change
0.096
0.83
0.90
0.23
0.003
0.31
0.03
0.15
IL1B
NFKB1
NFKB2
IRAK
IL1A
IL6
IL8
TNFa
N=3

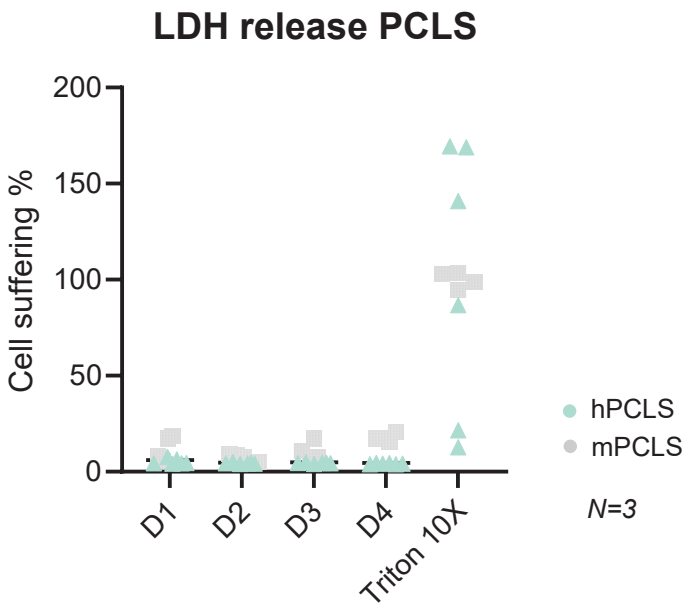

LDH release PCLS
Cell suffering %
200
150
100
50
0
D1
D2
D3
D4
Triton 10X
hPCLS
mPCLS
N=3

Fig S1

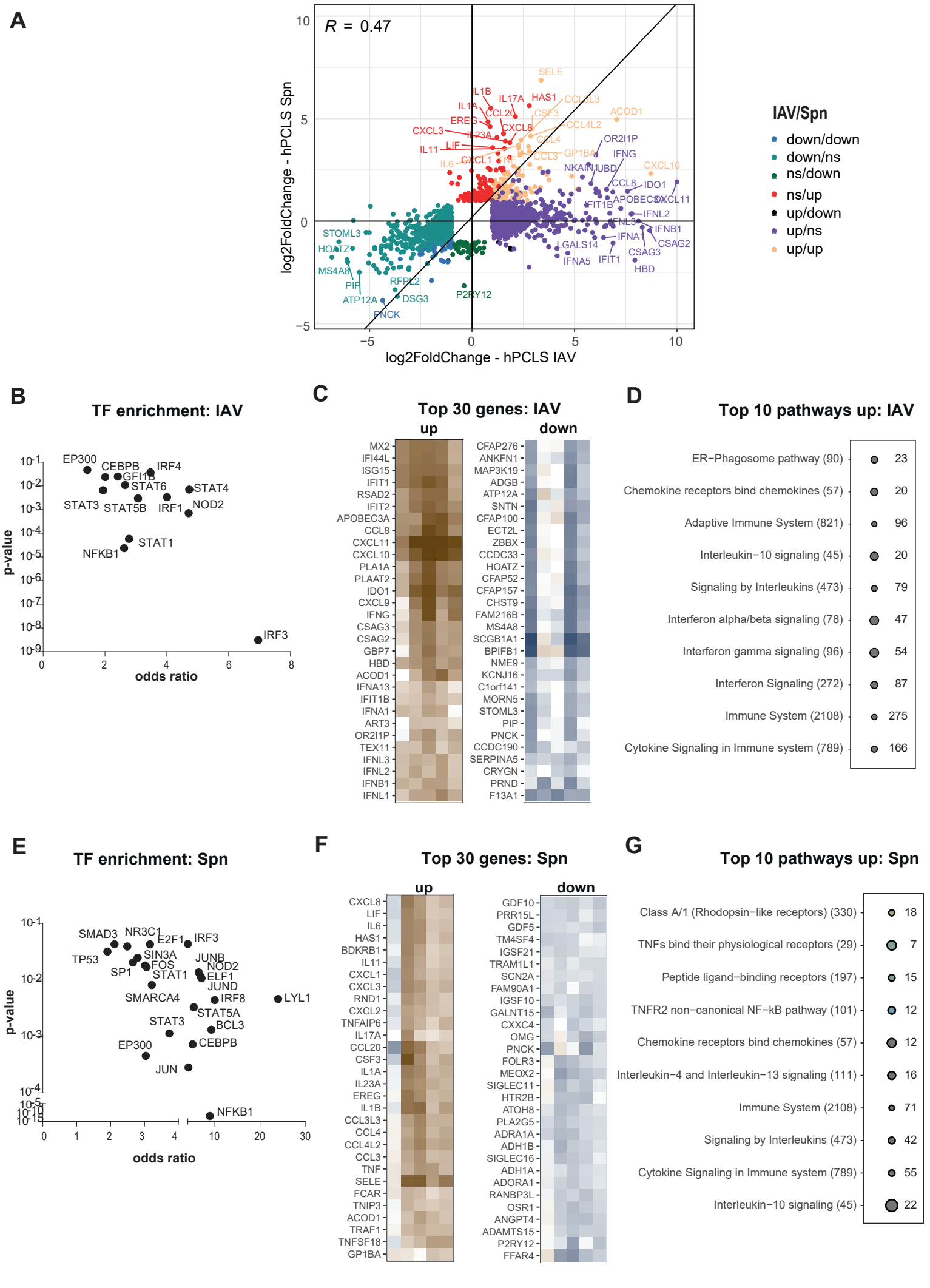
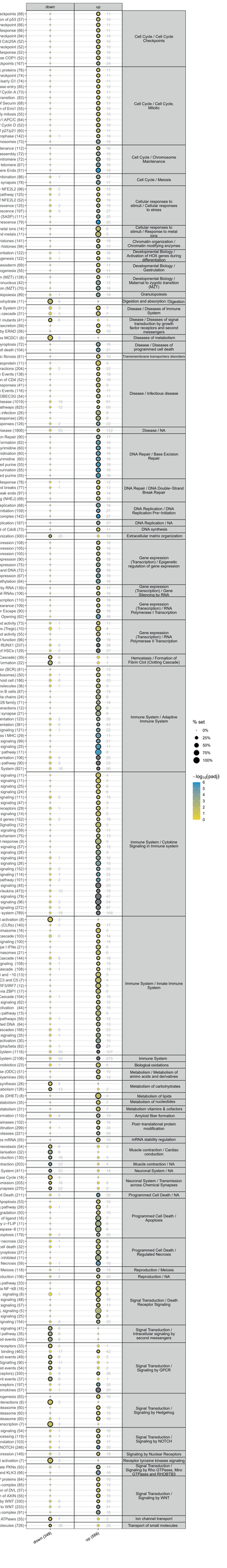

A
R = 0.47
log2FoldChange - hPCLS Spn
log2FoldChange - hPCLS IAV
IAV/Spn
down/down
down/ns
ns/down
ns/up
up/down
up/ns
up/up
B
TF enrichment: IAV
p-value
odds ratio
C
Top 30 genes: IAV
up
down
D
Top 10 pathways up: IAV
ER−Phagosome pathway (90) 23
Chemokine receptors bind chemokines (57) 20
Adaptive Immune System (821) 96
Interleukin−10 signaling (45) 20
Signaling by Interleukins (473) 79
Interferon alpha/beta signaling (78) 47
Interferon gamma signaling (96) 54
Interferon Signaling (272) 87
Immune System (2108) 275
Cytokine Signaling in Immune system (789) 166
E
TF enrichment: Spn
p-value
odds ratio
F
Top 30 genes: Spn
up
down
G
Top 10 pathways up: Spn
Class A/1 (Rhodopsin−like receptors) (330) 18
TNFs bind their physiological receptors (29) 7
Peptide ligand−binding receptors (197) 15
TNFR2 non−canonical NF−kB pathway (101) 12
Chemokine receptors bind chemokines (57) 12
Interleukin−4 and Interleukin−13 signaling (111) 16
Immune System (2108) 71
Signaling by Interleukins (473) 42
Cytokine Signaling in Immune system (789) 55
Interleukin−10 signaling (45) 22
log2FC
-log10(padj)
% set

Fig S2

Fig S3

Pathway enrichment analysis: hPCLS - Influenza A - 48h



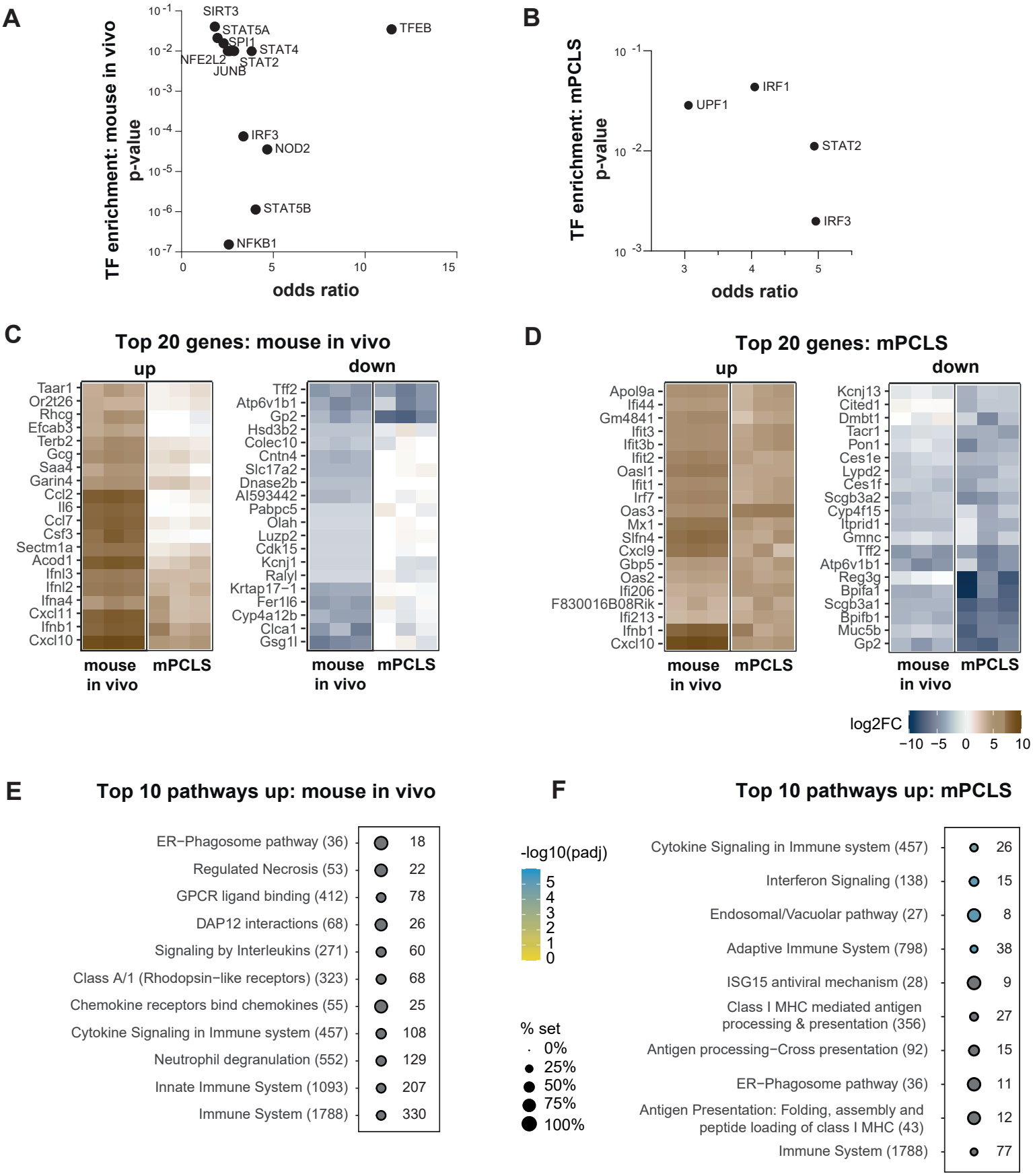

A
TF enrichment: mouse in vivo
p-value
odds ratio
SIRT3
STAT5A
SPI1
STAT4
NFE2L2
STAT2
JUNB
TFEB
IRF3
NOD2
STAT5B
NFKB1
B
TF enrichment: mPCLS
p-value
odds ratio
IRF1
UPF1
STAT2
IRF3
C
Top 20 genes: mouse in vivo
up
down
Taar1
Or2t26
Rhcg
Efcab3
Terb2
Gcg
Saa4
Garin4
Ccl2
Il6
Ccl7
Csf3
Sectm1a
Acod1
Ifnl3
Ifnl2
Ifna4
Cxcl11
Ifnb1
Cxcl10
Tff2
Atp6v1b1
Gp2
Hsd3b2
Colec10
Cntn4
Slc17a2
Dnase2b
AI593442
Pabpc5
Olah
Luzp2
Cdk15
Kcnj1
Ralyl
Krtap17−1
Fer1l6
Cyp4a12b
Clca1
Gsg1l
mouse in vivo
mPCLS
D
Top 20 genes: mPCLS
up
down
Apol9a
Ifi44
Gm4841
Ifit3
Ifit3b
Ifit2
Oasl1
Ifit1
Irf7
Oas3
Mx1
Slfn4
Cxcl9
Gbp5
Oas2
Ifi206
F830016B08Rik
Ifi213
Ifnb1
Cxcl10
Kcnj13
Cited1
Dmbt1
Tacr1
Pon1
Ces1e
Lypd2
Ces1f
Scgb3a2
Cyp4f15
Itprid1
Gmnc
Tff2
Atp6v1b1
Reg3g
Bpifa1
Scgb3a1
Bpifb1
Muc5b
Gp2
mouse in vivo
mPCLS
log2FC
−10 −5 0 5 10
E
Top 10 pathways up: mouse in vivo
ER−Phagosome pathway (36) 18
Regulated Necrosis (53) 22
GPCR ligand binding (412) 78
DAP12 interactions (68) 26
Signaling by Interleukins (271) 60
Class A/1 (Rhodopsin−like receptors) (323) 68
Chemokine receptors bind chemokines (55) 25
Cytokine Signaling in Immune system (457) 108
Neutrophil degranulation (552) 129
Innate Immune System (1093) 207
Immune System (1788) 330
F
Top 10 pathways up: mPCLS
-log10(padj)
5 4 3 2 1 0
% set
0%
25%
50%
75%
100%
Cytokine Signaling in Immune system (457) 26
Interferon Signaling (138) 15
Endosomal/Vacuolar pathway (27) 8
Adaptive Immune System (798) 38
ISG15 antiviral mechanism (28) 9
Class I MHC mediated antigen processing & presentation (356) 27
Antigen processing−Cross presentation (92) 15
ER−Phagosome pathway (36) 11
Antigen Presentation: Folding, assembly and peptide loading of class I MHC (43) 12
Immune System (1788) 77

Fig S4

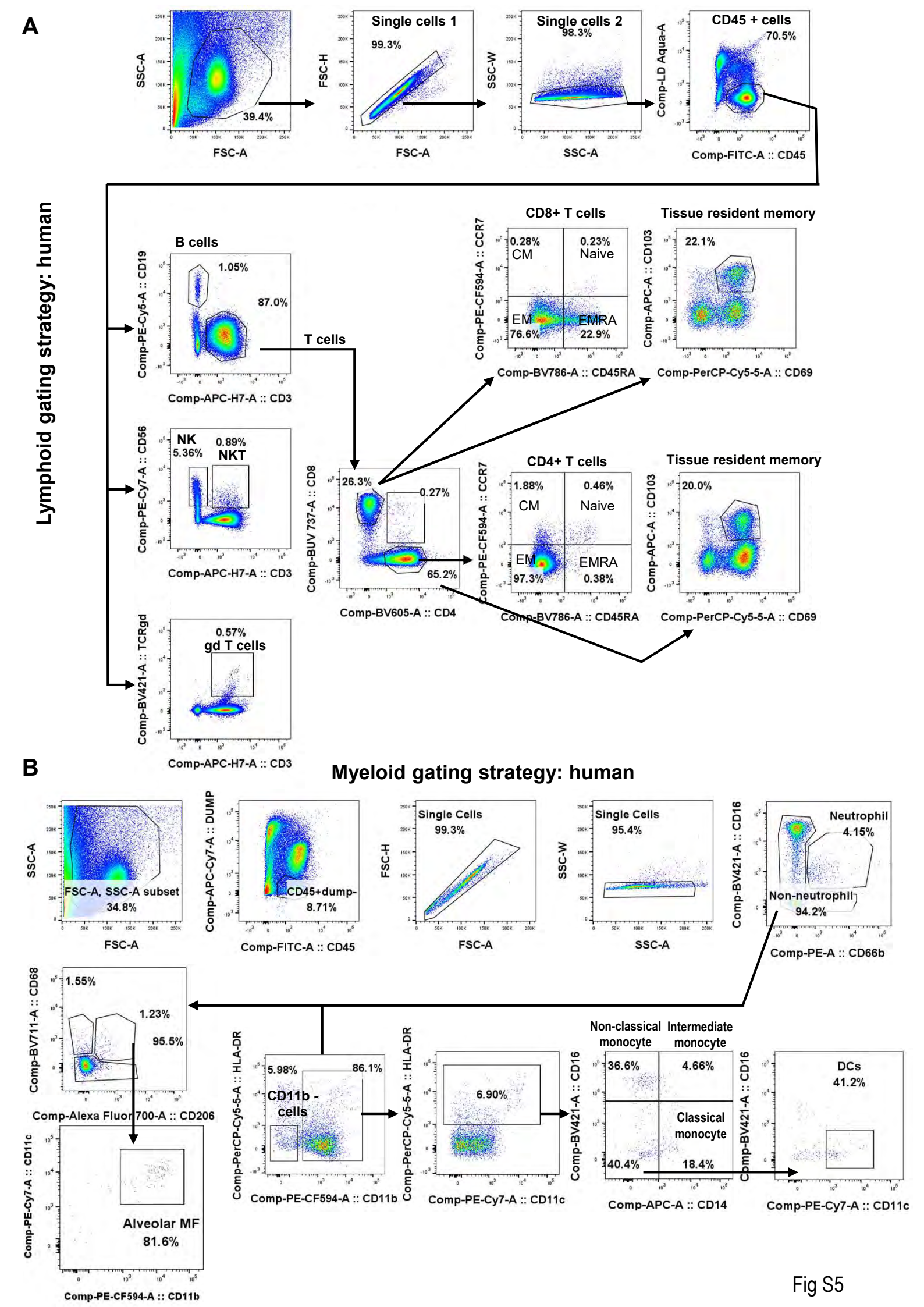

A
Lymphoid gating strategy: human
SSC-A
FSC-A
39.4%
Single cells 1
99.3%
FSC-H
FSC-A
Single cells 2
98.3%
SSC-W
SSC-A
CD45 + cells
70.5%
Comp-LD Aqua-A
Comp-FITC-A :: CD45
B cells
1.05%
87.0%
Comp-PE-Cy5-A :: CD19
Comp-APC-H7-A :: CD3
T cells
NK
5.36%
0.89%
NKT
Comp-PE-Cy7-A :: CD56
Comp-APC-H7-A :: CD3
0.57%
gd T cells
Comp-BV421-A :: TCRgd
Comp-APC-H7-A :: CD3
26.3%
0.27%
65.2%
Comp-BUV 737-A :: CD8
Comp-BV605-A :: CD4
CD8+ T cells
0.28%
CM
0.23%
Naive
EM
76.6%
EMRA
22.9%
Comp-PE-CF594-A :: CCR7
Comp-BV786-A :: CD45RA
Tissue resident memory
22.1%
Comp-APC-A :: CD103
Comp-PerCP-Cy5-5-A :: CD69
CD4+ T cells
1.88%
CM
0.46%
Naive
EM
97.3%
EMRA
0.38%
Comp-PE-CF594-A :: CCR7
Comp-BV786-A :: CD45RA
Tissue resident memory
20.0%
Comp-APC-A :: CD103
Comp-PerCP-Cy5-5-A :: CD69
B
Myeloid gating strategy: human
SSC-A
FSC-A, SSC-A subset
34.8%
FSC-A
Comp-APC-Cy7-A :: DUMP
CD45+dump-
8.71%
Comp-FITC-A :: CD45
FSC-H
Single Cells
99.3%
FSC-A
SSC-W
Single Cells
95.4%
SSC-A
Comp-BV421-A :: CD16
Neutrophil
4.15%
Non-neutrophil
94.2%
Comp-PE-A :: CD66b
1.55%
1.23%
95.5%
Comp-BV711-A :: CD68
Comp-Alexa Fluor 700-A :: CD206
Comp-PE-Cy7-A :: CD11c
Alveolar MF
81.6%
Comp-PE-CF594-A :: CD11b
Comp-PerCP-Cy5-5-A :: HLA-DR
5.98%
86.1%
CD11b -
cells
Comp-PE-CF594-A :: CD11b
Comp-PerCP-Cy5-5-A :: HLA-DR
6.90%
Comp-PE-Cy7-A :: CD11c
Non-classical
monocyte
Intermediate
monocyte
36.6%
4.66%
Classical
monocyte
40.4%
18.4%
Comp-BV421-A :: CD16
Comp-APC-A :: CD14
Comp-BV421-A :: CD16
DCs
41.2%
Comp-PE-Cy7-A :: CD11c

Fig S5

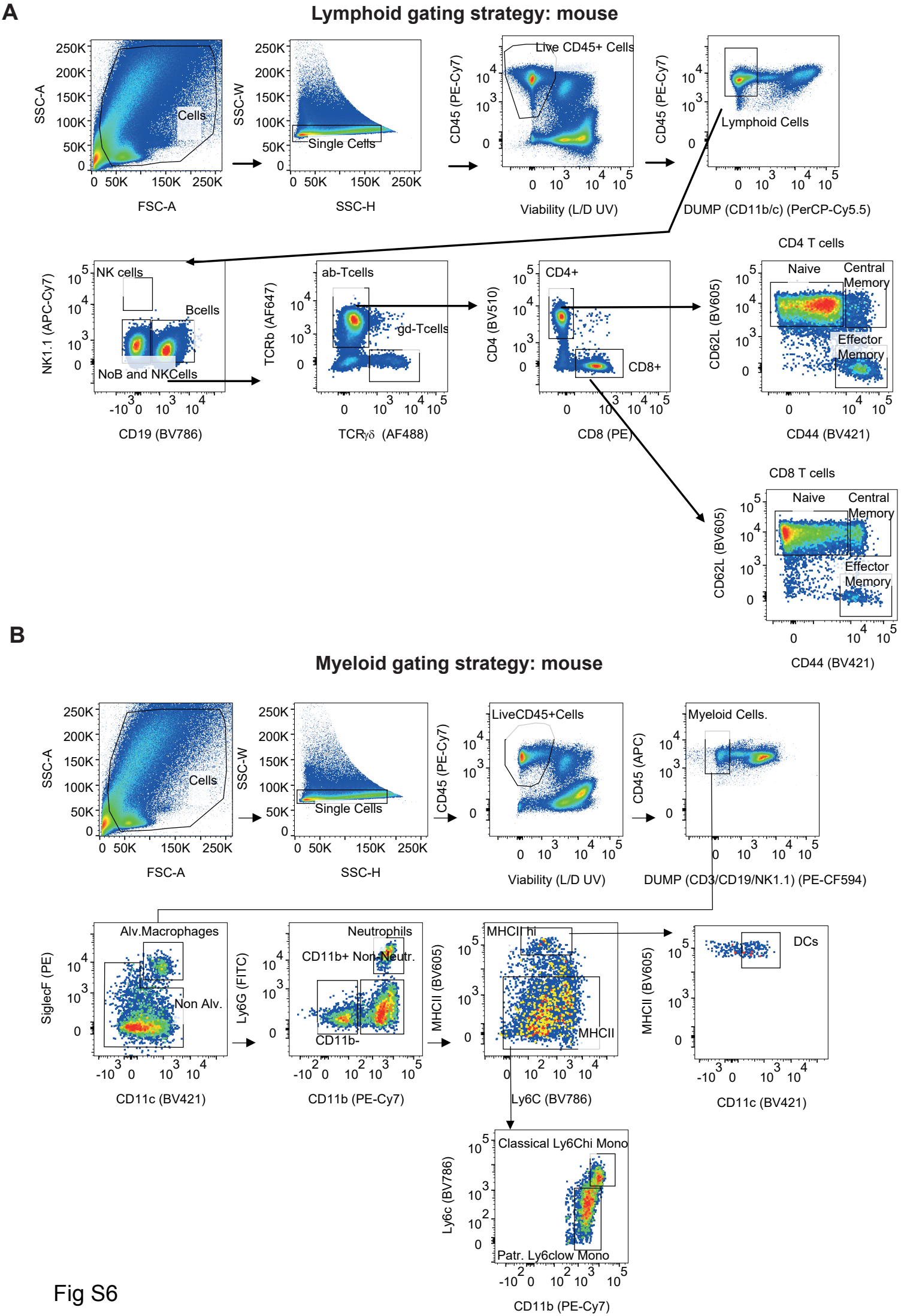

A
Lymphoid gating strategy: mouse
Cells
SSC-A
FSC-A
Single Cells
SSC-W
SSC-H
Live CD45+ Cells
CD45 (PE-Cy7)
Viability (L/D UV)
Lymphoid Cells
DUMP (CD11b/c) (PerCP-Cy5.5)
NK cells
Bcells
NoB and NKCells
NK1.1 (APC-Cy7)
CD19 (BV786)
ab-Tcells
gd-Tcells
TCRb (AF647)
TCRγδ (AF488)
CD4+
CD8+
CD4 (BV510)
CD8 (PE)
CD4 T cells
Naive
Central Memory
Effector Memory
CD62L (BV605)
CD44 (BV421)
CD8 T cells
B
Myeloid gating strategy: mouse
LiveCD45+Cells
Myeloid Cells.
DUMP (CD3/CD19/NK1.1) (PE-CF594)
Alv.Macrophages
Non Alv.
SiglecF (PE)
CD11c (BV421)
Neutrophils
CD11b+ Non-Neutr.
CD11b-
Ly6G (FITC)
CD11b (PE-Cy7)
MHCII hi
MHCII
MHCII (BV605)
Ly6C (BV786)
DCs
Classical Ly6Chi Mono
Patr. Ly6clow Mono
Ly6c (BV786)

Fig S6

Gating strategy - priming experiment - murine tissue

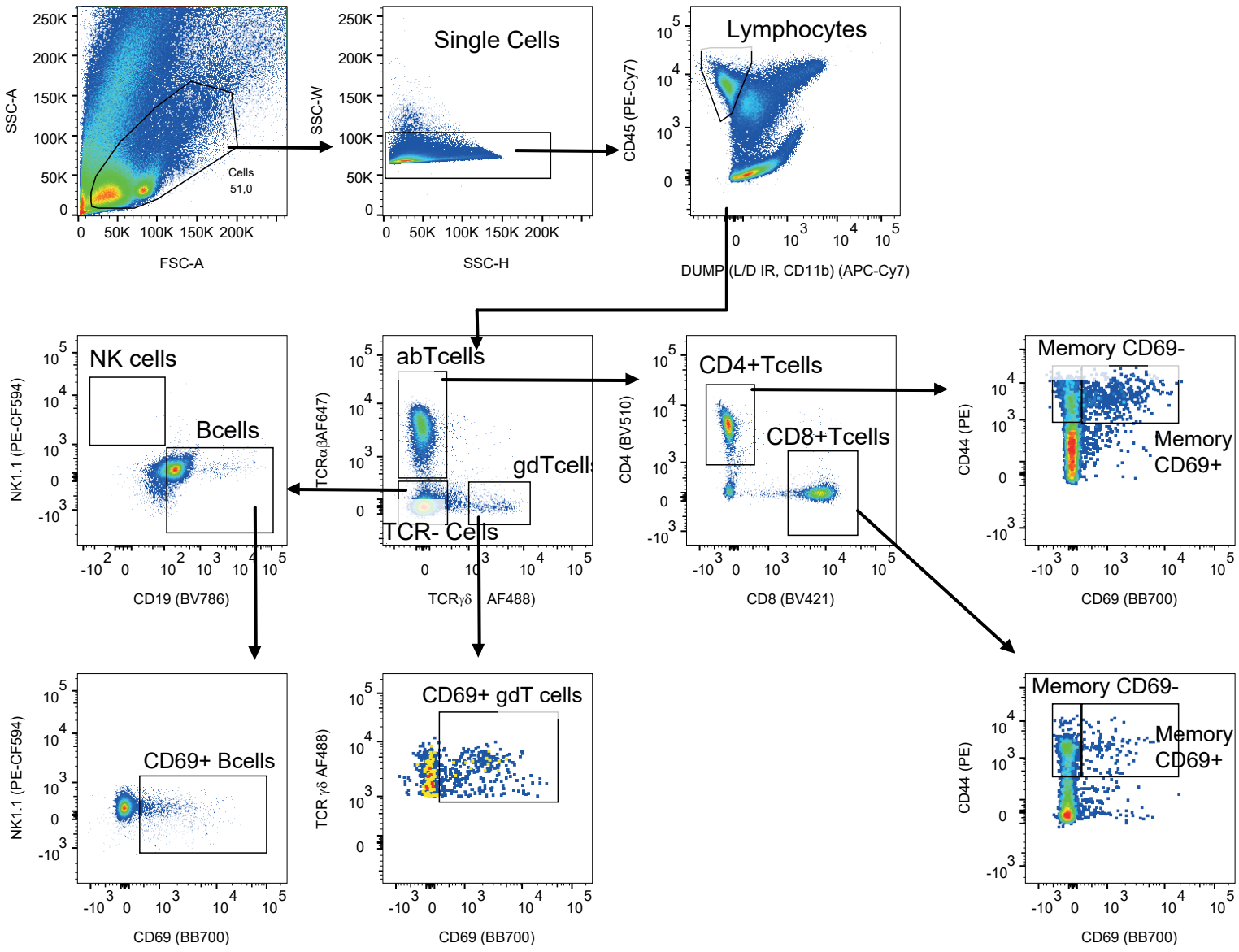


Fig S7

Table S1 : Patients clinical data

N° Patient	Sex	Age	Pathology	Smoking	Location	Antecedents & Treatments	Experiment
2	M	70	Adenocarcinoma	Former (15 UPA)	Upper right	Atrial fibrillation under Clexane anticoagulant; hypertension; sleep apnoea syndrome; chronic normocytic normochromic anaemia	Kinetic IAV
3	F	56	Carcinoid	No	Middle right	Glaucoma; scoliosis	Kinetic IAV
4	F	83	Adenocarcinoma	Former	Upper right	Radiotherapy in 2020	RNAseq
6	M	78	Evolutive pulmonary nodule - left apex	No	Upper left	Melanoma resected in 2021	IF
7	M	57	Suspected lung nodule	No	Upper right	Hepatic steatosis; hypercholesterolemia; deep vein thrombosis; resected pituitary macroadenoma (2000, 2003); obesity ; sleep disorders. Treatments: Hydrocortison; Euthyrox; desmopressin; Xarelto; Beloc Zok; Aldactone; Lisitril; CalcimagonD3F; Crestor; Cipralex; Lipanthyl; Magnesium Diasporal; Pantoprazole; Sequase; Xanax; Zyloric	Kinetic IAV, IF
8	F	66	Suspected lung nodule	Active (80 UPA)	Upper left	COPD	Kinetic IAV, IF
9	F	61	Suspected lung nodule	Nd	Lower right	Lung adenocarcinoma (resected in 2018)	Kinetic IAV, IF
10	M	85	Suspected lung nodule	Active (70 UPA)	Upper left	Squamous cell carcinoma (lobectomy 2010); insulin-requiring diabetes	Kinetic IAV, RNAseq
11	F	57	Adenocarcinoma	Active (35 UPA)	Middle right	Arterial hypertension; dermatosis	Kinetic IAV, RNAseq
12	F	68	Suspected adenocarcinoma	Former (5 UPA)	Upper right	Arterial Hypertension	Kinetic IAV, RNAseq
13	F	70	Suspected lung carcinoma	Active (50 UPA)	Lower left	Arterial Hypertension; hypercholesterolemia; BMI 33; Treatment: ANORO	Kinetic IAV, RNAseq
14	M	74	Suspected lung carcinoma	Former (40 UPA)	Upper left	Prostate adenocarcinoma (resected June 29, 2023); arterial hypertension treated with Amlodipine 5 mg; hypercholesterolemia treated with Ezetimib-Rosuvastatine	Kinetic IAV
15	M	61	Angiomyolipome	Nd	Upper right	Right nephrectomy; papillary thyroid carcinoma (resection) ; prostate adenoma	Kinetic IAV
29	F	65	Suspected lung nodule	Former (25 UPA)	Upper right	Carcinome canalaire du sein droit traité en 2019 (mastectomy) et 2020; cholescystectomy (2010)	LDH
30	F	57	Adenocarcinoma	Active (60 UPA)	Upper right	Colorectal adenocarcinoma (surgery 2024) - Toradol, Ondansétron	LDH
31	F	80	Suspected lung nodule	Active (60 UPA)	Upper left	Pulmonary emphysema; hypercholesterolemia; Symbicort Turbuhaler	LDH
43	M	74	Atypical carcinoid tumor	Former (70 UPA)	Lower left	COPD, arterial hypertension, type II diabetes, Treatments: diuretics, lipid-lowering drugs, anti-diabetics, Aspirine cardio	FACS
44	F	68	Suspected lung nodule	Former (70 UPA)	Upper left	COPD, lung adenocarcinoma (2020); arterial hypertension, Treatments: Amlodipine, Tobramycine, Aspirine cardio	FACS
45	M	73	Suspected lung nodule	Active (100 UPA)	Lower left	COPD, type 2 diabetes (without insulin), Treatments: Simcora; Pantoprazol; Candesartan; Sitagliptin	FACS
46	M	45	Suspected lung nodule	ND	Upper right	Dyslipidemia	Inhibitory test
47	M	51	Suspected lung nodule	Active (40 UPA)	Upper right	COPD, arterial hypertension; chronic rhinitis, Treatments: Candesartan; Wegovy; Montelukast; Symbicort Turbuhaler; Oxis; Kalcipos; cetirizine	Inhibitory test
49	M	78	Suspected lung nodule	ND	Upper right	-	Inhibitory test

Table S2: IFN genes expression

	IAV 48h	Mouse *in vivo*		mPCLS		hPCLS	
	Gene symbol	**log2FC**	**SEM**	**log2FC**	**SEM**	**log2FC**	**SEM**
Interferon	IFNL2	10,76	±1,197	7,24	±4,249	7,80	±1,094
	IFNL3	10,5	±1,199	6,84	±1,720	7,76	±1,071
	IFNB1	12,14	±1,194	8,83	±1,279	8,11	±3,109
	IFNG	4,02	±0,409	-0,57	±4,313	6,57	±0,899
	IFNAB	5,79	±1,905	2,63	±4,322	*NA*	*NA*
	IFNA1	6,88	±1,452	1,83	±4,352	6,41	±1,259
	IFNA2	7,46	±1,329	5,28	±2,511	7,22	±3,381
	IFNA4	9,44	±1,241	7,37	±4,249	5,72	±3,657
	IFNA5	6,64	±1,379	4,68	±2,905	4,67	±1,320
	IFNA6	5,96	±1,676	1,40	±4,363	3,17	±3,571
	IFNA9	5,49	±1,923	1,05	±4,377	*NA*	*NA*
	IFNA13	2,33	±4,036	*NA*	*NA*	6,72	±1,205
	IFNA16	5,58	±1,819	2,29	±4,313	4,59	±3,664
IFN type I response	OAS1	4,36	±0,165	3,3	±0,192	5,2	±0,360
	OAS2	4,34	±0,164	4,46	±0,214	4,0	±0,314
	Mx1	6,78	±0,173	4,63	±0,204	5,38	±0,377
	Mx2	4,99	±0,150	3,93	±0,249	6,07	±0,387
	PTPN11	0,57	±0,081	0,69	±0,211	-0,84	±0,188
	HIF1a	1,14	±0,159	0,43	±0,172	0,81	±0,195
	ISG56/IFIT1	5,55	±0,129	4,27	±0,214	6,68	±0,622
IFN type II response	BBC3	0,10	±0,143	-0,10	±0,202	1,54	±0,224
	ICAM-1	1,18	±0,064	0,31	±0,192	1,56	±0,298
	VEGFC	0,22	±0,172	0,25	±0,204	1,20	±0,291
	TEAD1	0,02	±0,105	0,74	±0,224	-0,26	±0,095
	TEAD4	0,20	±0,130	0,53	±0,196	0,64	±0,105

Table S3 : Primers sequences

	gene	***sequence 5'-3'***	
Murine genes	*hprt*	F	CTGGTGAAAAGGACCTCTCGAAG
		R	CCAGTTTCACTAATGACACAAACG
	ifng	F	TGGAGGAACTGGCAAAAGGATG
		R	GGACCTGTGGGTTGTTGACCTCAAA
	ifna	F	TCAAAGGACTCATCTGCTGCTTG
		R	CCACCTGCTGCATCAGACAAC
	ifnl1	F	GTTCAAGTCTCTGTCCCCAAAA
		R	GTGGGAACTGCACCTCATGT
	stat3	F	CAATACCATTGACCTGCCGAT
		R	GAGCGACTCAAACTGCCCT
	ifnb	F	CAGCTCCAAGAAAGGACGAAC
		R	GGCAGTGTAACTCTTCTGCAT
	ip10	F	TTCACCATGTGCCATGCC
		R	GAACTGACGAGCCTGAGCTAGG
Virus	*m1*	F	AGATGAGTCTTCTAACCGAGGTCG
		R	TGCAAAAACATCTTCAAGTCTCTG
Human genes	*18s*	F	GTAACCCGTTGAACCCCATT
		R	CCATCCAATCGGTAGTAGCG
	ifng	F	AGAGTGTGGAGACCATCAAGG
		R	AGCTGCTGGCGACAGTTCAG
	trim38	F	TATCACTGGAGGAAATAGCCTG
		R	TGACTTCCATAGGTCTTGAAGG
	casp8	F	ATCTGTCCTTCCTGAAGGAGC
		R	TTGCATTTGGAGATTTCCTCTTG
	vcam-1	F	CCGAAAGGCCCAGTTGAAG
		R	AATAGAGCACGAGAAGCTCAGGAG
	vegfc	F	TGTGTCCGTCTACAGATGTGG
		R	TGTTGCTGGCAGGGAACGTC
	icam-1	F	TCTGTGTCCCCCTCAAAAGTC
		R	GGGGTCTCTATGCCCAACAA
	ifi30	F	TGAAGAAGTCCAATGCACCGC
		R	TTGCACTCCTCTTCTCCATGC
	ifit1	F	AGTGTGGGAATACACAACCTACT
		R	GGTCACCAGACTCCTCACATTT
	mx1	F	GTTTCCGAAGTGGACATCGCA
		R	GAAGGGCAACTCCTGACAGT
	il1b	F	CTCGCCAGTGAAATGATGGCT
		R	GTCGGAGATTCGTAGCTGGAT
	nfkb1	F	AAGCAATTGAAGTGATCCAGGC
		R	ACCACTGGTCAGAGACTCGG

	nfkb2	F	ACCAGTGTCATTGAGCAGATAG
		R	ATGCATGGCTGAGTCTCCATG
	irak2	F	TCAAGTCCATGGAGCGGGTG
		R	TCTTACAGAAGCTGCCAAAGG
	il1a	F	TAGTAGCAACCAACGGGAAGG
		R	ATTATACTTTGATTGAGGGCGTC
	il6	F	AAGTCCTGATCCAGTTCCTGC
		R	TGCTACATTTGCCGAAGAGCC
	il8	F	TTTTGCCAAGGAGTGCTAAAGA
		R	AACCCTCTGCACCCAGTTTTC
	tnfa	F	CTTCTCGAACCCCGAGTCAGTTG
		R	TGAGGTACAGGCCCTCTGATG

Table S4: DeSeq file

cond	ensembl_id	baseMean	log2FoldChange
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IAV_mIV	ENSMUSG00000047293	37.77890254	3.840619431
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IAV_mIV	ENSMUSG00000121501	2804.742675	1.878433134
IAV_mIV	ENSMUSG00000121503	927.7977428	1.734089272
IAV_mIV	ENSMUSG00000121582	34.02512456	4.198574895
IAV_mIV	ENSMUSG00002074868	4.206008393	5.317007018
IAV_mIV	ENSMUSG00002074911	161.5695519	1.727619167
IAV_mIV	ENSMUSG00002075189	37.91612295	1.575539825

IAV_mIV	ENSMUSG00002075421	3.815219526	5.852059671
IAV_mIV	ENSMUSG00002076111	49.16395375	2.481063825
IAV_mIV	ENSMUSG00002076317	9.248396507	1.719766188
IAV_mIV	ENSMUSG00002076472	28.35797748	1.491086366
IAV_mIV	ENSMUSG00002076727	109.1324081	2.467401166
IAV_mPCLS	ENSMUSG00000000184	6351.480822	1.011102918
IAV_mPCLS	ENSMUSG00000000204	164.9520574	4.667017453
IAV_mPCLS	ENSMUSG00000000275	4043.78923	1.500024515
IAV_mPCLS	ENSMUSG00000000386	866.2220191	4.633824039
IAV_mPCLS	ENSMUSG00000001123	10107.72643	2.105577649
IAV_mPCLS	ENSMUSG00000001506	22396.35825	1.010850251
IAV_mPCLS	ENSMUSG00000002028	3216.513824	1.104156967
IAV_mPCLS	ENSMUSG00000002227	859.6435494	1.973733902
IAV_mPCLS	ENSMUSG00000002307	2221.6951	1.90626831
IAV_mPCLS	ENSMUSG00000002325	2328.073383	1.516160467
IAV_mPCLS	ENSMUSG00000003545	202.0135196	1.182976996
IAV_mPCLS	ENSMUSG00000003847	3715.188527	1.145748725
IAV_mPCLS	ENSMUSG00000004952	378.9039091	1.166733733
IAV_mPCLS	ENSMUSG00000006418	3753.5768	1.232802964
IAV_mPCLS	ENSMUSG00000006930	695.6763081	2.658972479
IAV_mPCLS	ENSMUSG00000010358	2816.44814	1.440653499
IAV_mPCLS	ENSMUSG00000012519	2321.795922	1.243548218
IAV_mPCLS	ENSMUSG00000014599	4314.80893	1.194139279
IAV_mPCLS	ENSMUSG00000015451	286.0225249	1.227066808
IAV_mPCLS	ENSMUSG00000015947	605.7529341	1.392999345
IAV_mPCLS	ENSMUSG00000016496	1650.748578	2.439584083
IAV_mPCLS	ENSMUSG00000017830	1459.497786	3.246799389
IAV_mPCLS	ENSMUSG00000017950	55.54228816	1.20947539
IAV_mPCLS	ENSMUSG00000018707	12444.84377	1.057706847
IAV_mPCLS	ENSMUSG00000018986	338.5107055	2.316567775
IAV_mPCLS	ENSMUSG00000019082	1044.259967	1.563706312
IAV_mPCLS	ENSMUSG00000019866	977.8806356	1.037072674
IAV_mPCLS	ENSMUSG00000019990	120.2218961	1.450476625
IAV_mPCLS	ENSMUSG00000020181	146.4093054	1.201181316
IAV_mPCLS	ENSMUSG00000020638	3078.238869	3.544335308
IAV_mPCLS	ENSMUSG00000020641	5848.135063	4.060014734
IAV_mPCLS	ENSMUSG00000020676	308.8788756	1.043311672
IAV_mPCLS	ENSMUSG00000020707	536.0070716	1.334044652
IAV_mPCLS	ENSMUSG00000020790	3068.913283	1.487641355
IAV_mPCLS	ENSMUSG00000021208	31.65260371	2.359176893
IAV_mPCLS	ENSMUSG00000021583	2357.8931	1.046587646
IAV_mPCLS	ENSMUSG00000022014	449.4824735	1.384583639
IAV_mPCLS	ENSMUSG00000022026	73.23077225	2.070969377
IAV_mPCLS	ENSMUSG00000022103	337.529675	1.015002838
IAV_mPCLS	ENSMUSG00000022126	854.7519991	2.593594666
IAV_mPCLS	ENSMUSG00000022180	515.4921756	1.283981117
IAV_mPCLS	ENSMUSG00000022548	663.8433739	1.32720732
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IAV_mPCLS	ENSMUSG00000022708	2442.699501	1.01625135
IAV_mPCLS	ENSMUSG00000022867	2850.573052	1.088106888
IAV_mPCLS	ENSMUSG00000022906	2469.372238	2.186470635
IAV_mPCLS	ENSMUSG00000023243	225.9005508	1.106454067

IAV_mPCLS	ENSMUSG00000023341	700.0038131	3.93290698
IAV_mPCLS	ENSMUSG00000023868	190.5497031	1.246908588
IAV_mPCLS	ENSMUSG00000023961	1671.928483	1.215775194
IAV_mPCLS	ENSMUSG00000024019	2875.813367	1.33960049
IAV_mPCLS	ENSMUSG00000024066	2226.692508	1.286136437
IAV_mPCLS	ENSMUSG00000024079	2968.418626	2.233444034
IAV_mPCLS	ENSMUSG00000024308	7794.185318	1.852556351
IAV_mPCLS	ENSMUSG00000024338	3500.3908	1.306997496
IAV_mPCLS	ENSMUSG00000024339	2130.855074	1.423713721
IAV_mPCLS	ENSMUSG00000024371	247.4650032	2.679321548
IAV_mPCLS	ENSMUSG00000024457	1912.909438	1.092047278
IAV_mPCLS	ENSMUSG00000024472	1911.050193	1.513663282
IAV_mPCLS	ENSMUSG00000024675	204.4720988	2.454384978
IAV_mPCLS	ENSMUSG00000024678	658.6939908	1.53054919
IAV_mPCLS	ENSMUSG00000024922	141.4034714	1.165274274
IAV_mPCLS	ENSMUSG00000025019	697.4310092	1.15140964
IAV_mPCLS	ENSMUSG00000025165	96.31176722	1.377562547
IAV_mPCLS	ENSMUSG00000025324	968.2978171	1.407128461
IAV_mPCLS	ENSMUSG00000025492	28976.4301	1.165460669
IAV_mPCLS	ENSMUSG00000025498	7169.356771	4.21111144
IAV_mPCLS	ENSMUSG00000025646	1174.634332	1.355768829
IAV_mPCLS	ENSMUSG00000025647	7956.549294	1.383219649
IAV_mPCLS	ENSMUSG00000025743	14933.76428	1.366815503
IAV_mPCLS	ENSMUSG00000026069	450.105048	1.157671054
IAV_mPCLS	ENSMUSG00000026088	1075.939515	1.225259276
IAV_mPCLS	ENSMUSG00000026104	5923.200736	2.899972663
IAV_mPCLS	ENSMUSG00000026135	773.3740103	1.006681839
IAV_mPCLS	ENSMUSG00000026222	2931.159459	2.59103183
IAV_mPCLS	ENSMUSG00000026466	4705.17775	1.557497141
IAV_mPCLS	ENSMUSG00000026536	1981.031169	2.841525183
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IAV_mPCLS	ENSMUSG00000026896	1987.198128	2.721587184
IAV_mPCLS	ENSMUSG00000026946	1469.458132	1.169240077
IAV_mPCLS	ENSMUSG00000027009	729.5501857	1.118779598
IAV_mPCLS	ENSMUSG00000027078	2501.990474	2.159845245
IAV_mPCLS	ENSMUSG00000027171	268.1101747	1.143675239
IAV_mPCLS	ENSMUSG00000027219	147.5288396	1.087329387
IAV_mPCLS	ENSMUSG00000027230	1819.757204	1.001281082
IAV_mPCLS	ENSMUSG00000027322	674.041039	2.9245366
IAV_mPCLS	ENSMUSG00000027347	123.7270289	1.301593002
IAV_mPCLS	ENSMUSG00000027435	25024.50844	1.021910727
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IAV_mPCLS	ENSMUSG00000027570	49.6651956	1.402495622
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IAV_mPCLS	ENSMUSG00000027639	4259.793217	1.278602314
IAV_mPCLS	ENSMUSG00000027951	2920.590834	2.102124484
IAV_mPCLS	ENSMUSG00000028028	322.4794953	1.354746612
IAV_mPCLS	ENSMUSG00000028037	3286.263081	4.171856583
IAV_mPCLS	ENSMUSG00000028268	3166.552515	3.515420544
IAV_mPCLS	ENSMUSG00000028270	2881.407923	2.991369974
IAV_mPCLS	ENSMUSG00000028358	222.7807779	1.099254953
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IAV_mPCLS	ENSMUSG00000029104	2493.887234	1.049481791
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IAV_mPCLS	ENSMUSG00000029313	3364.268681	1.056780865
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IAV_mPCLS	ENSMUSG00000029561	4810.8463	3.518739769
IAV_mPCLS	ENSMUSG00000029605	341.5799606	2.738838792
IAV_mPCLS	ENSMUSG00000029765	856.6668682	1.213984528
IAV_mPCLS	ENSMUSG00000029798	1723.649627	2.706558316
IAV_mPCLS	ENSMUSG00000029826	3822.203576	1.383104055
IAV_mPCLS	ENSMUSG00000030084	5443.498076	1.062552153
IAV_mPCLS	ENSMUSG00000030107	2638.91892	3.461742547
IAV_mPCLS	ENSMUSG00000030156	92.38925538	1.497991482
IAV_mPCLS	ENSMUSG00000030275	3165.451029	1.256609466
IAV_mPCLS	ENSMUSG00000030921	2231.948658	2.971746365
IAV_mPCLS	ENSMUSG00000030966	631.8890164	1.932012337
IAV_mPCLS	ENSMUSG00000031170	32.37828637	1.83352537
IAV_mPCLS	ENSMUSG00000031639	1267.575165	1.925435009
IAV_mPCLS	ENSMUSG00000031897	1795.590614	1.246296849
IAV_mPCLS	ENSMUSG00000032174	24.0476418	2.149071268
IAV_mPCLS	ENSMUSG00000032265	652.2667717	1.710514271
IAV_mPCLS	ENSMUSG00000032344	264.520878	1.001995423
IAV_mPCLS	ENSMUSG00000032410	1325.972598	1.078775891
IAV_mPCLS	ENSMUSG00000032515	1536.070373	1.12136664
IAV_mPCLS	ENSMUSG00000032593	73.67993038	1.054535092
IAV_mPCLS	ENSMUSG00000032596	2208.664027	2.232536472
IAV_mPCLS	ENSMUSG00000032661	435.8007388	6.691646626
IAV_mPCLS	ENSMUSG00000032690	739.9194292	4.464244973
IAV_mPCLS	ENSMUSG00000033355	2766.938504	2.180967918
IAV_mPCLS	ENSMUSG00000033368	22.55897532	1.758544449
IAV_mPCLS	ENSMUSG00000033576	51.21647683	2.817670496
IAV_mPCLS	ENSMUSG00000033624	439.8722566	1.119810325
IAV_mPCLS	ENSMUSG00000033705	2165.378201	1.000240774
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IAV_mPCLS	ENSMUSG00000033847	40.7522381	1.692212643
IAV_mPCLS	ENSMUSG00000033855	978.3221129	1.000716464
IAV_mPCLS	ENSMUSG00000033880	10355.31566	2.299056689
IAV_mPCLS	ENSMUSG00000033967	135.1795245	1.025807403
IAV_mPCLS	ENSMUSG00000034422	5094.313445	2.882768163
IAV_mPCLS	ENSMUSG00000034438	216.7386861	1.425450283
IAV_mPCLS	ENSMUSG00000034459	3851.757317	4.277758111
IAV_mPCLS	ENSMUSG00000034575	1461.745927	1.364739623
IAV_mPCLS	ENSMUSG00000034708	6910.643874	1.15893907
IAV_mPCLS	ENSMUSG00000034842	222.4225019	1.357194795
IAV_mPCLS	ENSMUSG00000034855	5005.98174	4.803366064
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IAV_mPCLS	ENSMUSG00000035279	274.1735529	1.022665007
IAV_mPCLS	ENSMUSG00000035352	209.0730576	1.017337636
IAV_mPCLS	ENSMUSG00000035505	327.8647309	1.002044593
IAV_mPCLS	ENSMUSG00000035517	2283.946932	1.445498255
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IAV_mPCLS	ENSMUSG00000035818	49.6240827	1.482067392
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IAV_mPCLS	ENSMUSG00000036412	39.50351645	1.998444582
IAV_mPCLS	ENSMUSG00000036912	146.4277091	1.332355559
IAV_mPCLS	ENSMUSG00000036960	267.3596572	1.606118937
IAV_mPCLS	ENSMUSG00000036986	2298.04502	2.146010878
IAV_mPCLS	ENSMUSG00000037321	2233.451872	2.456764202
IAV_mPCLS	ENSMUSG00000037731	382.3060901	1.243358172
IAV_mPCLS	ENSMUSG00000037816	560.6367672	1.332406586
IAV_mPCLS	ENSMUSG00000037849	479.6008247	4.904643188
IAV_mPCLS	ENSMUSG00000037855	208.6565699	1.213594933
IAV_mPCLS	ENSMUSG00000037921	715.1411801	3.33720456
IAV_mPCLS	ENSMUSG00000037997	590.7867532	2.226958542
IAV_mPCLS	ENSMUSG00000038002	1156.996228	1.018594371
IAV_mPCLS	ENSMUSG00000038156	1474.832315	1.040083043
IAV_mPCLS	ENSMUSG00000038179	259.173822	1.101380009
IAV_mPCLS	ENSMUSG00000038305	419.8766339	1.662316984
IAV_mPCLS	ENSMUSG00000038507	2750.144782	2.617694511
IAV_mPCLS	ENSMUSG00000038540	106.5452027	2.332473958
IAV_mPCLS	ENSMUSG00000038608	1049.607715	1.031002167
IAV_mPCLS	ENSMUSG00000038677	97.68935503	1.167820977
IAV_mPCLS	ENSMUSG00000038774	2233.840929	1.518942813
IAV_mPCLS	ENSMUSG00000038866	1162.760038	1.721607368
IAV_mPCLS	ENSMUSG00000039236	1591.672685	1.642378316
IAV_mPCLS	ENSMUSG00000039304	1897.269255	1.269001391
IAV_mPCLS	ENSMUSG00000039501	4833.816463	2.840953062
IAV_mPCLS	ENSMUSG00000039683	142.966676	1.038946637
IAV_mPCLS	ENSMUSG00000039699	151.9052988	2.585084937
IAV_mPCLS	ENSMUSG00000039853	252.6485731	2.13375966
IAV_mPCLS	ENSMUSG00000039997	2648.731867	2.890198302
IAV_mPCLS	ENSMUSG00000040033	3751.641112	2.628642469
IAV_mPCLS	ENSMUSG00000040035	631.3689078	1.046039899
IAV_mPCLS	ENSMUSG00000040253	2623.281071	2.804642543
IAV_mPCLS	ENSMUSG00000040296	3374.365625	2.533014199
IAV_mPCLS	ENSMUSG00000040328	646.6484867	2.75977415
IAV_mPCLS	ENSMUSG00000040428	439.3504855	2.411760135
IAV_mPCLS	ENSMUSG00000040483	1960.809447	2.290007358
IAV_mPCLS	ENSMUSG00000040865	1366.394997	1.126448656
IAV_mPCLS	ENSMUSG00000040987	292.6265929	1.195066283
IAV_mPCLS	ENSMUSG00000041245	56.10459363	1.188504378
IAV_mPCLS	ENSMUSG00000041313	2689.242427	1.048116902
IAV_mPCLS	ENSMUSG00000041645	3065.848857	1.056261278
IAV_mPCLS	ENSMUSG00000041649	62.53767327	1.373387579
IAV_mPCLS	ENSMUSG00000041827	990.9405018	4.208312592
IAV_mPCLS	ENSMUSG00000041936	9310.038266	1.644124889
IAV_mPCLS	ENSMUSG00000042333	179.0175155	1.4172777
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IAV_mPCLS	ENSMUSG00000042719	2283.975137	1.084589338
IAV_mPCLS	ENSMUSG00000042726	3111.786657	1.965406503
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IAV_mPCLS	ENSMUSG00000044022	80.21194847	1.138852852
IAV_mPCLS	ENSMUSG00000044548	199.5507948	1.249619068
IAV_mPCLS	ENSMUSG00000044703	127.2126207	2.982143234
IAV_mPCLS	ENSMUSG00000045322	52.72062868	1.635159205
IAV_mPCLS	ENSMUSG00000045868	4580.517355	2.620002892
IAV_mPCLS	ENSMUSG00000045932	3068.701914	4.229381285
IAV_mPCLS	ENSMUSG00000046031	40.76891534	1.645220854
IAV_mPCLS	ENSMUSG00000046169	219.0352084	1.395582364
IAV_mPCLS	ENSMUSG00000046561	49.92108244	1.341459812
IAV_mPCLS	ENSMUSG00000046718	9193.464738	2.246626062
IAV_mPCLS	ENSMUSG00000046879	4231.139342	2.489781844
IAV_mPCLS	ENSMUSG00000047098	1260.800594	1.290506147
IAV_mPCLS	ENSMUSG00000047735	6890.617879	1.511555233
IAV_mPCLS	ENSMUSG00000047773	95.76999353	1.021761635
IAV_mPCLS	ENSMUSG00000047959	91.40597632	1.382420655
IAV_mPCLS	ENSMUSG00000048806	36.45740588	8.83417721
IAV_mPCLS	ENSMUSG00000048852	372.4237098	2.765685841
IAV_mPCLS	ENSMUSG00000048911	909.8323718	1.018962596
IAV_mPCLS	ENSMUSG00000049323	1745.637702	1.062440251
IAV_mPCLS	ENSMUSG00000049401	4212.009854	1.088454733
IAV_mPCLS	ENSMUSG00000049502	1979.762233	2.519398163
IAV_mPCLS	ENSMUSG00000049659	2284.927086	1.275746752
IAV_mPCLS	ENSMUSG00000049734	742.1245867	2.078569528
IAV_mPCLS	ENSMUSG00000049928	27.05226499	3.407900042
IAV_mPCLS	ENSMUSG00000050014	124.2122962	2.35982744
IAV_mPCLS	ENSMUSG00000050370	1610.492891	1.319371739
IAV_mPCLS	ENSMUSG00000050395	154.2431043	1.314411229
IAV_mPCLS	ENSMUSG00000050565	7209.200128	1.142176343
IAV_mPCLS	ENSMUSG00000050578	5968.860839	1.102223842
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IAV_mPCLS	ENSMUSG00000051790	2573.985339	1.686782788
IAV_mPCLS	ENSMUSG00000052212	367.3754292	1.567617177
IAV_mPCLS	ENSMUSG00000052414	482.1424469	1.22024641
IAV_mPCLS	ENSMUSG00000052477	89.45787282	1.160331881
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IAV_mPCLS	ENSMUSG00000052776	1796.515633	3.379937786
IAV_mPCLS	ENSMUSG00000053541	36.36002072	2.545720561
IAV_mPCLS	ENSMUSG00000053835	332.0066011	3.826808326
IAV_mPCLS	ENSMUSG00000053846	688.5687779	1.982865065
IAV_mPCLS	ENSMUSG00000054072	4275.664441	2.950213364
IAV_mPCLS	ENSMUSG00000054203	1404.053172	2.662374326
IAV_mPCLS	ENSMUSG00000054404	4589.39047	2.355962948
IAV_mPCLS	ENSMUSG00000054580	368.2999821	1.168578367
IAV_mPCLS	ENSMUSG00000054728	831.17709	1.008090407
IAV_mPCLS	ENSMUSG00000055413	754.1911538	1.565196873
IAV_mPCLS	ENSMUSG00000055421	56.77644326	1.34069543
IAV_mPCLS	ENSMUSG00000055485	2325.949068	1.096311629

IAV_mPCLS	ENSMUSG00000055994	336.7643642	1.526362698
IAV_mPCLS	ENSMUSG00000056025	125.0602536	2.533321274
IAV_mPCLS	ENSMUSG00000056116	4477.11723	1.702391456
IAV_mPCLS	ENSMUSG00000056144	730.853309	2.021897739
IAV_mPCLS	ENSMUSG00000057143	1297.485707	1.783134356
IAV_mPCLS	ENSMUSG00000057346	659.7516746	4.269540858
IAV_mPCLS	ENSMUSG00000057554	3102.896975	1.047164637
IAV_mPCLS	ENSMUSG00000057596	849.764962	3.160220002
IAV_mPCLS	ENSMUSG00000057897	36.79469044	1.378964346
IAV_mPCLS	ENSMUSG00000058163	324.0463603	2.806753953
IAV_mPCLS	ENSMUSG00000059921	205.8773738	1.107800681
IAV_mPCLS	ENSMUSG00000060183	36.91407938	3.996721076
IAV_mPCLS	ENSMUSG00000060441	256.323068	1.090038436
IAV_mPCLS	ENSMUSG00000060519	2761.833387	2.509382134
IAV_mPCLS	ENSMUSG00000060550	2451.430081	1.275748217
IAV_mPCLS	ENSMUSG00000060802	44732.37735	1.045763811
IAV_mPCLS	ENSMUSG00000060985	70.28777083	1.363877647
IAV_mPCLS	ENSMUSG00000061436	2050.092005	1.081121218
IAV_mPCLS	ENSMUSG00000061852	33.01917805	2.262743465
IAV_mPCLS	ENSMUSG00000062007	76.21252027	2.405337661
IAV_mPCLS	ENSMUSG00000062488	4896.417779	4.867334415
IAV_mPCLS	ENSMUSG00000063268	1849.221974	2.137720215
IAV_mPCLS	ENSMUSG00000063286	1306.52558	1.906549536
IAV_mPCLS	ENSMUSG00000063388	84.51590184	2.939407889
IAV_mPCLS	ENSMUSG00000063894	454.9402602	1.010690206
IAV_mPCLS	ENSMUSG00000066036	7851.271277	1.143597127
IAV_mPCLS	ENSMUSG00000066113	144.6882591	1.000307858
IAV_mPCLS	ENSMUSG00000066258	982.5231352	1.737228698
IAV_mPCLS	ENSMUSG00000066363	81.68324563	1.637704815
IAV_mPCLS	ENSMUSG00000066677	572.1713552	3.792172957
IAV_mPCLS	ENSMUSG00000066861	774.83146	3.666900866
IAV_mPCLS	ENSMUSG00000067203	371.0481539	1.729824368
IAV_mPCLS	ENSMUSG00000067212	3536.746835	2.004089704
IAV_mPCLS	ENSMUSG00000067297	116.2782372	3.574508912
IAV_mPCLS	ENSMUSG00000068245	4017.743428	2.705166094
IAV_mPCLS	ENSMUSG00000068246	749.032006	3.974960563
IAV_mPCLS	ENSMUSG00000068606	62.19119703	4.136535446
IAV_mPCLS	ENSMUSG00000069793	1692.712248	1.517739354
IAV_mPCLS	ENSMUSG00000069874	1887.654049	2.939829096
IAV_mPCLS	ENSMUSG00000069892	1676.010291	1.793227179
IAV_mPCLS	ENSMUSG00000069893	902.645634	2.017246927
IAV_mPCLS	ENSMUSG00000070034	656.9765113	1.737221275
IAV_mPCLS	ENSMUSG00000070327	13865.20998	3.154852849
IAV_mPCLS	ENSMUSG00000070427	336.6436503	2.669208249
IAV_mPCLS	ENSMUSG00000070501	150.9209693	2.663307405
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IAV_mPCLS	ENSMUSG00000072109	36.8261939	1.221598663
IAV_mPCLS	ENSMUSG00000072244	171.0629978	1.360977977
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IAV_mPCLS	ENSMUSG00000072621	228.1651154	1.71214247
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IAV_mPCLS	ENSMUSG00000073491	750.7395354	4.258729511
IAV_mPCLS	ENSMUSG00000073555	344.1060356	3.653604949
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IAV_mPCLS	ENSMUSG00000074151	1048.860885	3.497856294
IAV_mPCLS	ENSMUSG00000074272	3412.651271	1.02819468
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IAV_mPCLS	ENSMUSG00000077192	25.36086193	2.734922974
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IAV_mPCLS	ENSMUSG00000078922	1860.141746	2.794610173
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IAV_mPCLS	ENSMUSG00000079017	2008.42867	1.975034187
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IAV_mPCLS	ENSMUSG00000090141	35.58930911	1.40678969
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IAV_mPCLS	ENSMUSG00000090881	29.11354704	2.731872953
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IAV_mPCLS	ENSMUSG00000099871	51.26827811	1.177682859
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IAV_mPCLS	ENSMUSG00000105338	451.9379116	3.129645911
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IAV_mPCLS	ENSMUSG00000107568	67.52372574	1.300252308
IAV_mPCLS	ENSMUSG00000107722	35.85840371	4.332669854
IAV_mPCLS	ENSMUSG00000107749	32.76633964	1.932793277
IAV_mPCLS	ENSMUSG00000107756	36.57387924	1.447253255
IAV_mPCLS	ENSMUSG00000108095	34.25322732	3.239818569
IAV_mPCLS	ENSMUSG00000108112	829.1221273	2.783452212
IAV_mPCLS	ENSMUSG00000108368	33.79931235	1.603523337
IAV_mPCLS	ENSMUSG00000108732	37.61562737	1.456929586
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IAV_mPCLS	ENSMUSG00000109005	67.93370639	1.360870669
IAV_mPCLS	ENSMUSG00000109539	35.58181844	1.343617731
IAV_mPCLS	ENSMUSG00000109729	23.75091579	2.199600435
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IAV_hPCLS	ENSG00000169248	47363.27087	10.47884143
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IAV_hPCLS	ENSG00000182393	36.91435301	6.885373619
IAV_hPCLS	ENSG00000185745	29746.82746	6.880763005
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IAV_hPCLS	ENSG00000133328	1282.683956	6.780579783
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IAV_hPCLS	ENSG00000289582	44.02836423	5.999990925
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IAV_hPCLS	ENSG00000290525	2774.527666	5.890658185
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IAV_hPCLS	ENSG00000237379	2.442062928	5.014940764
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IAV_hPCLS	ENSG00000241743	11.45810317	4.963770466
IAV_hPCLS	ENSG00000233473	4.198592209	4.904811022
IAV_hPCLS	ENSG00000261268	4.518956969	4.902494869
IAV_hPCLS	ENSG00000233705	10.79126435	4.886055118
IAV_hPCLS	ENSG00000163121	1679.16785	4.867840518
IAV_hPCLS	ENSG00000235290	55.72742093	4.843454614
IAV_hPCLS	ENSG00000108688	2025.799181	4.842025661
IAV_hPCLS	ENSG00000173626	24.51470988	4.818994963
IAV_hPCLS	ENSG00000184979	2987.904386	4.815891099
IAV_hPCLS	ENSG00000161133	403.2334327	4.784449569
IAV_hPCLS	ENSG00000213500	26.32211489	4.756179951
IAV_hPCLS	ENSG00000162654	22825.5831	4.750188962
IAV_hPCLS	ENSG00000189013	48.18323709	4.745223903
IAV_hPCLS	ENSG00000168062	3050.02126	4.735953151
IAV_hPCLS	ENSG00000290950	372.0907196	4.727041317
IAV_hPCLS	ENSG00000224789	26.0828519	4.71403138
IAV_hPCLS	ENSG00000147873	7.283198527	4.675685697
IAV_hPCLS	ENSG00000279296	6.888430107	4.635257761
IAV_hPCLS	ENSG00000239039	2.757461356	4.626441729
IAV_hPCLS	ENSG00000236098	6.603247671	4.615274624
IAV_hPCLS	ENSG00000232680	5.48874407	4.599888044
IAV_hPCLS	ENSG00000138642	5592.508061	4.584686967
IAV_hPCLS	ENSG00000168671	2.975695544	4.573376921
IAV_hPCLS	ENSG00000136514	1314.092081	4.54627145
IAV_hPCLS	ENSG00000258673	4.362596746	4.515597094
IAV_hPCLS	ENSG00000164509	131.2149068	4.500789188
IAV_hPCLS	ENSG00000212195	3.037885721	4.476159126
IAV_hPCLS	ENSG00000269720	93.24033982	4.471765113
IAV_hPCLS	ENSG00000124256	468.1654116	4.445491259
IAV_hPCLS	ENSG00000270722	2.916144374	4.432333337
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IAV_hPCLS	ENSG00000290961	28.51543614	4.412479366
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IAV_hPCLS	ENSG00000133106	5681.819143	4.342097143
IAV_hPCLS	ENSG00000102524	2211.795261	4.339803309
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IAV_hPCLS	ENSG00000010030	1544.513299	4.293418459
IAV_hPCLS	ENSG00000172724	436.7017346	4.281657644
IAV_hPCLS	ENSG00000253535	3.860823193	4.266733422
IAV_hPCLS	ENSG00000115155	67.73405001	4.246405866
IAV_hPCLS	ENSG00000141574	5428.094133	4.232540944
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IAV_hPCLS	ENSG00000283235	8.655156828	3.744203148
IAV_hPCLS	ENSG00000163666	92.28258353	3.742910281
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IAV_hPCLS	ENSG00000229754	36.11171532	3.35357611
IAV_hPCLS	ENSG00000225131	4.428818824	3.340131883
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IAV_hPCLS	ENSG00000214872	14.59603605	3.311433547
IAV_hPCLS	ENSG00000123610	8316.706323	3.310307071
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IAV_hPCLS	ENSG00000287485	7.35477657	2.591893222
IAV_hPCLS	ENSG00000198515	7.619105973	2.591085679
IAV_hPCLS	ENSG00000118990	68.64833348	2.589861218
IAV_hPCLS	ENSG00000200343	41.09273982	2.584656973
IAV_hPCLS	ENSG00000249173	21.64027293	2.58168086
IAV_hPCLS	ENSG00000110446	4968.783752	2.575991896
IAV_hPCLS	ENSG00000201355	36.47009989	2.575060387
IAV_hPCLS	ENSG00000290086	7.0186623	2.570492985
IAV_hPCLS	ENSG00000284386	669.3710642	2.553007189
IAV_hPCLS	ENSG00000180616	605.3459691	2.552672405
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IAV_hPCLS	ENSG00000179674	52.57981208	2.544446821
IAV_hPCLS	ENSG00000079385	2022.258577	2.543343117
IAV_hPCLS	ENSG00000123609	3104.038931	2.543332582

IAV_hPCLS	ENSG00000284615	17.30684341	2.540291559
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IAV_hPCLS	ENSG00000221947	185.8533434	2.536069997
IAV_hPCLS	ENSG00000237398	15.5214925	2.533814955
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IAV_hPCLS	ENSG00000104213	275.0170327	2.528529571
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IAV_hPCLS	ENSG00000200370	37.16043809	2.51946055
IAV_hPCLS	ENSG00000252561	566.9457124	2.517314987
IAV_hPCLS	ENSG00000277947	58.78836176	2.514425622
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IAV_hPCLS	ENSG00000235513	182.9877297	2.508156596
IAV_hPCLS	ENSG00000132109	3134.648945	2.5058705
IAV_hPCLS	ENSG00000241106	247.0197115	2.494154928
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IAV_hPCLS	ENSG00000273076	7.356335488	2.484084174
IAV_hPCLS	ENSG00000250734	3.641013817	2.482087007
IAV_hPCLS	ENSG00000179750	309.6035658	2.48048969
IAV_hPCLS	ENSG00000116514	4491.749275	2.47712864
IAV_hPCLS	ENSG00000152778	3138.257763	2.472324983
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IAV_hPCLS	ENSG00000288767	35.46198194	2.461921853
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IAV_hPCLS	ENSG00000262074	59.61037523	2.417465543
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IAV_hPCLS	ENSG00000275630	7.824760415	2.303035994
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IAV_hPCLS	ENSG00000289724	3025.995486	2.279304714
IAV_hPCLS	ENSG00000134460	241.2415081	2.279283964
IAV_hPCLS	ENSG00000284194	3074.994842	2.278322743
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IAV_hPCLS	ENSG00000173821	33228.02874	2.276688975
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IAV_hPCLS	ENSG00000266728	1833.886431	2.131504095
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IAV_hPCLS	ENSG00000251624	59.13806486	2.127939685
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IAV_hPCLS	ENSG00000244414	261.7061137	2.016931722
IAV_hPCLS	ENSG00000273802	6.717574075	2.016103737
IAV_hPCLS	ENSG00000260898	15.67273387	2.016009962
IAV_hPCLS	ENSG00000265485	22.5924937	2.011272726
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IAV_hPCLS	ENSG00000214212	104.9110686	1.911759442
IAV_hPCLS	ENSG00000122679	627.6177149	1.91118849
IAV_hPCLS	ENSG00000100450	249.3884871	1.908640865
IAV_hPCLS	ENSG00000119915	54.06069543	1.906584279
IAV_hPCLS	ENSG00000129048	296.2553073	1.906496897
IAV_hPCLS	ENSG00000289972	9.556559053	1.906032444
IAV_hPCLS	ENSG00000289942	65.23131892	1.905954954
IAV_hPCLS	ENSG00000101017	4136.359566	1.905624938
IAV_hPCLS	ENSG00000231407	135.6513913	1.905487438
IAV_hPCLS	ENSG00000224063	56.71623276	1.904982893
IAV_hPCLS	ENSG00000100226	4967.584263	1.902157104
IAV_hPCLS	ENSG00000196503	30.49651697	1.900873656
IAV_hPCLS	ENSG00000147647	11.8851759	1.900101687
IAV_hPCLS	ENSG00000289809	33.00248128	1.897997468
IAV_hPCLS	ENSG00000178015	11.27240105	1.897427334
IAV_hPCLS	ENSG00000138109	17.32619937	1.894410782
IAV_hPCLS	ENSG00000206341	11114.12135	1.893658937
IAV_hPCLS	ENSG00000274432	12.76966297	1.892144655
IAV_hPCLS	ENSG00000125826	7139.05792	1.890873047
IAV_hPCLS	ENSG00000223722	16.3839587	1.887046264
IAV_hPCLS	ENSG00000264860	63.66787115	1.883111318
IAV_hPCLS	ENSG00000165841	12.43259671	1.881952947
IAV_hPCLS	ENSG00000187037	112.7180084	1.880938307
IAV_hPCLS	ENSG00000231672	34.80358202	1.880453027
IAV_hPCLS	ENSG00000196358	140.5673941	1.878878548
IAV_hPCLS	ENSG00000204525	72221.96169	1.86616135
IAV_hPCLS	ENSG00000149633	320.3059547	1.864468076
IAV_hPCLS	ENSG00000050344	1363.105495	1.864258687
IAV_hPCLS	ENSG00000250548	54.49998081	1.861660341
IAV_hPCLS	ENSG00000287299	17.45233869	1.86017282
IAV_hPCLS	ENSG00000156500	247.0823069	1.859492108
IAV_hPCLS	ENSG00000230795	732.5041354	1.859005326
IAV_hPCLS	ENSG00000160710	21159.31614	1.851715357
IAV_hPCLS	ENSG00000285108	63.83907126	1.850200447
IAV_hPCLS	ENSG00000139572	307.6876889	1.849401277
IAV_hPCLS	ENSG00000163131	20237.13981	1.84917329
IAV_hPCLS	ENSG00000137200	3560.022406	1.849097963
IAV_hPCLS	ENSG00000276758	13.50831412	1.848592998
IAV_hPCLS	ENSG00000289880	91.36719904	1.848022917
IAV_hPCLS	ENSG00000279320	29.74184036	1.8477008
IAV_hPCLS	ENSG00000117475	2211.318834	1.847310847
IAV_hPCLS	ENSG00000226835	10.77810495	1.845334141
IAV_hPCLS	ENSG00000228665	5.805946385	1.840354704
IAV_hPCLS	ENSG00000283440	8.430183656	1.83606954
IAV_hPCLS	ENSG00000176040	12.1782551	1.835862515
IAV_hPCLS	ENSG00000235790	7.417072581	1.831450718
IAV_hPCLS	ENSG00000176907	5367.261599	1.824512002

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IAV_hPCLS	ENSG00000277829	9.467895773	1.82106429
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IAV_hPCLS	ENSG00000205360	17.85624459	1.812457407
IAV_hPCLS	ENSG00000118156	26.49893709	1.806477917
IAV_hPCLS	ENSG00000249272	63.73460909	1.805863806
IAV_hPCLS	ENSG00000177335	104.0756929	1.802868225
IAV_hPCLS	ENSG00000282988	14.65551066	1.801262816
IAV_hPCLS	ENSG00000132744	16.96768888	1.798965214
IAV_hPCLS	ENSG00000278828	14.59421631	1.796509762
IAV_hPCLS	ENSG00000108702	14.69174977	1.793443744
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IAV_hPCLS	ENSG00000086065	5495.597704	1.790103074
IAV_hPCLS	ENSG00000259321	70.16512393	1.789657465
IAV_hPCLS	ENSG00000171049	154.4957888	1.78954478
IAV_hPCLS	ENSG00000262185	128.4386561	1.785486669
IAV_hPCLS	ENSG00000116785	96.28900027	1.785413952
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IAV_hPCLS	ENSG00000206503	84739.91535	1.782593462
IAV_hPCLS	ENSG00000111801	3647.81931	1.779650157
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IAV_hPCLS	ENSG00000127951	869.9506494	1.761369438
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IAV_hPCLS	ENSG00000157303	179.0706679	1.759351045
IAV_hPCLS	ENSG00000083097	1487.361495	1.754854216
IAV_hPCLS	ENSG00000274213	51.08034898	1.75477504
IAV_hPCLS	ENSG00000180644	754.621012	1.753604805
IAV_hPCLS	ENSG00000279861	3212.536775	1.751249957
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IAV_hPCLS	ENSG00000092010	7280.766207	1.746803334
IAV_hPCLS	ENSG00000242856	21.81934185	1.746162823
IAV_hPCLS	ENSG00000118503	15577.8158	1.744440294
IAV_hPCLS	ENSG00000151014	600.3819131	1.74015292
IAV_hPCLS	ENSG00000043143	3263.968055	1.73655783
IAV_hPCLS	ENSG00000284360	27.26362456	1.736253024
IAV_hPCLS	ENSG00000261504	16.59465797	1.73326831
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IAV_hPCLS	ENSG00000160183	345.9340653	1.72455901
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IAV_hPCLS	ENSG00000261618	186.2666846	1.718116397
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IAV_hPCLS	ENSG00000184795	44.54882849	1.70793865
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IAV_hPCLS	ENSG00000168679	1107.215052	1.699782266
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IAV_hPCLS	ENSG00000162366	2373.156742	1.695472602
IAV_hPCLS	ENSG00000267658	8.20935036	1.690718497
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IAV_hPCLS	ENSG00000245556	271.8086487	1.682609622
IAV_hPCLS	ENSG00000205018	19.73645227	1.680975086
IAV_hPCLS	ENSG00000275210	55.8147018	1.680835218
IAV_hPCLS	ENSG00000096996	230.6595042	1.679437431
IAV_hPCLS	ENSG00000223804	47.46126996	1.678614214
IAV_hPCLS	ENSG00000231852	22.04024713	1.676633855
IAV_hPCLS	ENSG00000136147	2530.929625	1.675656241
IAV_hPCLS	ENSG00000283726	212.8922948	1.67404563
IAV_hPCLS	ENSG00000060491	5665.680149	1.673481846
IAV_hPCLS	ENSG00000196735	3379.250157	1.672682745
IAV_hPCLS	ENSG00000186827	2321.323685	1.67051269
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IAV_hPCLS	ENSG00000237505	24.12580083	1.66712283
IAV_hPCLS	ENSG00000261971	990.8777661	1.664299721
IAV_hPCLS	ENSG00000140853	7427.925695	1.66308887
IAV_hPCLS	ENSG00000117245	782.5483152	1.660942923
IAV_hPCLS	ENSG00000284542	177.9183572	1.658091194
IAV_hPCLS	ENSG00000279778	18.41237775	1.657267066
IAV_hPCLS	ENSG00000233868	10.0328282	1.656988997
IAV_hPCLS	ENSG00000203446	124.9384964	1.654288412
IAV_hPCLS	ENSG00000161929	423.4095048	1.653845518
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IAV_hPCLS	ENSG00000086300	1739.486873	1.642890033
IAV_hPCLS	ENSG00000164430	648.8219902	1.64254099
IAV_hPCLS	ENSG00000160870	38.77125811	1.642365843
IAV_hPCLS	ENSG00000130066	34730.62249	1.640243144
IAV_hPCLS	ENSG00000286940	35.22561261	1.634099943
IAV_hPCLS	ENSG00000147697	166.8799764	1.634052015
IAV_hPCLS	ENSG00000023445	7488.771647	1.630690002
IAV_hPCLS	ENSG00000215414	74.65678685	1.628680094
IAV_hPCLS	ENSG00000136689	6508.003042	1.625626937
IAV_hPCLS	ENSG00000288706	5241.162973	1.622936042
IAV_hPCLS	ENSG00000169550	397.2416086	1.620812251
IAV_hPCLS	ENSG00000135697	11.04294189	1.618149852
IAV_hPCLS	ENSG00000268655	15.07068231	1.617929895
IAV_hPCLS	ENSG00000132256	3027.766057	1.616592171
IAV_hPCLS	ENSG00000204252	1584.313919	1.615655981

IAV_hPCLS	ENSG00000291237	93241.96383	1.6142161
IAV_hPCLS	ENSG00000284554	359.5821259	1.613509569
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IAV_hPCLS	ENSG00000226032	71.11546676	1.609674255
IAV_hPCLS	ENSG00000204592	61677.35459	1.608544816
IAV_hPCLS	ENSG00000145824	95.86756455	1.606965872
IAV_hPCLS	ENSG00000127311	178.3254959	1.604554491
IAV_hPCLS	ENSG00000100902	12066.616	1.603333703
IAV_hPCLS	ENSG00000204379	56.68269558	1.601931738
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IAV_hPCLS	ENSG00000164400	157.585698	1.60120054
IAV_hPCLS	ENSG00000268812	28.66028132	1.600484538
IAV_hPCLS	ENSG00000237541	1227.726367	1.599187584
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IAV_hPCLS	ENSG00000229391	2027.191022	1.596755543
IAV_hPCLS	ENSG00000290878	2029.156154	1.595860375
IAV_hPCLS	ENSG00000235505	427.8035231	1.592893867
IAV_hPCLS	ENSG00000163565	14751.34157	1.591891248
IAV_hPCLS	ENSG00000283265	37.33733796	1.590507583
IAV_hPCLS	ENSG00000138135	981.6678628	1.590192686
IAV_hPCLS	ENSG00000026950	4214.265479	1.58751975
IAV_hPCLS	ENSG00000213279	18.06898001	1.586794206
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IAV_hPCLS	ENSG00000263528	1123.660126	1.586353909
IAV_hPCLS	ENSG00000169136	2536.764974	1.584990613
IAV_hPCLS	ENSG00000153898	432.869962	1.582796787
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IAV_hPCLS	ENSG00000205502	1018.424948	1.582286868
IAV_hPCLS	ENSG00000135052	3520.102782	1.581608152
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IAV_hPCLS	ENSG00000261889	31.13325237	1.578879613
IAV_hPCLS	ENSG00000180815	36.89778096	1.578337271
IAV_hPCLS	ENSG00000284294	8.412283334	1.577424685
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IAV_hPCLS	ENSG00000204099	57.88774598	1.576544724
IAV_hPCLS	ENSG00000197448	4516.167379	1.573778249
IAV_hPCLS	ENSG00000159403	27678.05621	1.571514902
IAV_hPCLS	ENSG00000163874	3923.850789	1.570884916
IAV_hPCLS	ENSG00000111012	441.5821326	1.568451429
IAV_hPCLS	ENSG00000202337	11.5238669	1.567199966
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IAV_hPCLS	ENSG00000157693	840.3836882	1.565930829
IAV_hPCLS	ENSG00000172936	6277.349657	1.561048283
IAV_hPCLS	ENSG00000288587	599.6281923	1.560968913
IAV_hPCLS	ENSG00000237807	168.8191016	1.56042441
IAV_hPCLS	ENSG00000158445	18.58732169	1.557793899
IAV_hPCLS	ENSG00000151322	19.20479528	1.556502215
IAV_hPCLS	ENSG00000105559	3523.640576	1.556057437
IAV_hPCLS	ENSG00000237927	60.64608722	1.554349453

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IAV_hPCLS	ENSG00000106560	1018.472091	1.552441417
IAV_hPCLS	ENSG00000151364	1104.704961	1.551236059
IAV_hPCLS	ENSG00000138741	147.0539562	1.550813926
IAV_hPCLS	ENSG00000110324	2940.091274	1.55032351
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IAV_hPCLS	ENSG00000090554	427.9760586	1.532122931
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IAV_hPCLS	ENSG00000176998	128.573923	1.514784099
IAV_hPCLS	ENSG00000170965	52.15369106	1.513507345
IAV_hPCLS	ENSG00000103642	2483.623075	1.512553809
IAV_hPCLS	ENSG00000180525	119.6956619	1.51038778
IAV_hPCLS	ENSG00000231925	11960.23475	1.509651739
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IAV_hPCLS	ENSG00000277496	114.9946964	1.506206535
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IAV_hPCLS	ENSG00000259687	9.663139995	1.491392118
IAV_hPCLS	ENSG00000184588	4425.145171	1.489501729
IAV_hPCLS	ENSG00000143344	5370.522701	1.488192815
IAV_hPCLS	ENSG00000280153	144.1539538	1.487585569
IAV_hPCLS	ENSG00000178078	1541.996963	1.485321052
IAV_hPCLS	ENSG00000204632	1981.015225	1.483657556
IAV_hPCLS	ENSG00000282301	31.15912958	1.480038379
IAV_hPCLS	ENSG00000226051	107.3284806	1.47954683
IAV_hPCLS	ENSG00000274917	211.3837204	1.479231626

IAV_hPCLS	ENSG00000175730	17.14453386	1.47544704
IAV_hPCLS	ENSG00000228022	45.78227967	1.473924426
IAV_hPCLS	ENSG00000256646	7869.455282	1.473781782
IAV_hPCLS	ENSG00000258794	13.01793674	1.472789908
IAV_hPCLS	ENSG00000213928	4347.188434	1.472329992
IAV_hPCLS	ENSG00000253958	635.634568	1.470741207
IAV_hPCLS	ENSG00000198502	3090.435237	1.467276253
IAV_hPCLS	ENSG00000168310	2822.487281	1.465360177
IAV_hPCLS	ENSG00000289226	16.96620765	1.465281304
IAV_hPCLS	ENSG00000285103	54.7898416	1.464732359
IAV_hPCLS	ENSG00000151136	115.0151629	1.464683581
IAV_hPCLS	ENSG00000281741	38.49034135	1.464600396
IAV_hPCLS	ENSG00000253882	49.65449574	1.462053578
IAV_hPCLS	ENSG00000005059	984.1477081	1.461972242
IAV_hPCLS	ENSG00000184988	813.7151364	1.458119149
IAV_hPCLS	ENSG00000272269	165.9293	1.457950067
IAV_hPCLS	ENSG00000008516	159.3760312	1.456639838
IAV_hPCLS	ENSG00000234127	3468.023114	1.456071259
IAV_hPCLS	ENSG00000283842	147.5383953	1.455668307
IAV_hPCLS	ENSG00000121797	1203.41272	1.455276089
IAV_hPCLS	ENSG00000120526	1846.9098	1.454149578
IAV_hPCLS	ENSG00000289056	102.8015162	1.451727557
IAV_hPCLS	ENSG00000175879	33.06601191	1.451364405
IAV_hPCLS	ENSG00000169228	2151.847436	1.451170666
IAV_hPCLS	ENSG00000129667	4071.638028	1.449787412
IAV_hPCLS	ENSG00000151470	469.3545484	1.449322928
IAV_hPCLS	ENSG00000066923	96.02802046	1.446782115
IAV_hPCLS	ENSG00000137571	80.64734474	1.446651275
IAV_hPCLS	ENSG00000276317	25.11365113	1.446231698
IAV_hPCLS	ENSG00000058335	134.6572614	1.44332881
IAV_hPCLS	ENSG00000100600	10571.3306	1.442518682
IAV_hPCLS	ENSG00000231389	12247.91418	1.442138565
IAV_hPCLS	ENSG00000198736	1813.269746	1.441646879
IAV_hPCLS	ENSG00000135604	2394.377861	1.439207867
IAV_hPCLS	ENSG00000158714	2838.578176	1.438564589
IAV_hPCLS	ENSG00000102871	1664.267816	1.438360631
IAV_hPCLS	ENSG00000287828	15.63283648	1.438152602
IAV_hPCLS	ENSG00000242590	1635.284903	1.437195024
IAV_hPCLS	ENSG00000179862	340.6995632	1.436113591
IAV_hPCLS	ENSG00000130224	478.3051097	1.435963604
IAV_hPCLS	ENSG00000261359	13.21885617	1.435686539
IAV_hPCLS	ENSG00000291173	703.5037796	1.432584939
IAV_hPCLS	ENSG00000289614	41.18239518	1.432345283
IAV_hPCLS	ENSG00000104320	4057.287708	1.430235574
IAV_hPCLS	ENSG00000273730	208.0309951	1.430127962
IAV_hPCLS	ENSG00000120280	146.5116828	1.429831893
IAV_hPCLS	ENSG00000276980	161.089697	1.429572226
IAV_hPCLS	ENSG00000087085	624.4804056	1.429502357
IAV_hPCLS	ENSG00000198959	30762.84616	1.42923779
IAV_hPCLS	ENSG00000164181	609.2635515	1.428247173
IAV_hPCLS	ENSG00000258790	12738.70878	1.426495598
IAV_hPCLS	ENSG00000223652	23.47740817	1.424559853

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IAV_hPCLS	ENSG00000062598	3089.869866	1.420178009
IAV_hPCLS	ENSG00000125462	16.6645784	1.417275924
IAV_hPCLS	ENSG00000203804	30.92269362	1.414279776
IAV_hPCLS	ENSG00000117091	956.5127818	1.412723783
IAV_hPCLS	ENSG00000170542	1588.47429	1.411953448
IAV_hPCLS	ENSG00000262223	18.35941812	1.411832425
IAV_hPCLS	ENSG00000135318	3049.571808	1.411511218
IAV_hPCLS	ENSG00000100079	113.2335689	1.410923596
IAV_hPCLS	ENSG00000189060	11344.46616	1.4094466
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IAV_hPCLS	ENSG00000288009	12.37417471	1.407101064
IAV_hPCLS	ENSG00000070190	422.1335271	1.406978845
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IAV_hPCLS	ENSG00000204287	34322.01572	1.405297592
IAV_hPCLS	ENSG00000214226	248.1936385	1.40268736
IAV_hPCLS	ENSG00000170044	26.59802281	1.402094617
IAV_hPCLS	ENSG00000287665	19.67051348	1.401812821
IAV_hPCLS	ENSG00000185947	2151.688248	1.401168888
IAV_hPCLS	ENSG00000289901	1830.446535	1.400105628
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IAV_hPCLS	ENSG00000284673	16.76542354	1.377193281
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IAV_hPCLS	ENSG00000102921	4460.94595	1.364997057
IAV_hPCLS	ENSG00000285526	1488.809277	1.364182628
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IAV_hPCLS	ENSG00000182782	498.620074	1.360897022
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IAV_hPCLS	ENSG00000184371	14163.78667	1.324475037
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IAV_hPCLS	ENSG00000289754	6913.386327	1.318506279
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IAV_hPCLS	ENSG00000289985	17.30107431	1.31219636
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IAV_hPCLS	ENSG00000203814	33.96720779	1.297843105
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IAV_hPCLS	ENSG00000124785	955.9241683	1.268483488
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IAV_hPCLS	ENSG00000259001	228.7660808	1.250554045
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IAV_hPCLS	ENSG00000145365	1149.66475	1.164189909
IAV_hPCLS	ENSG00000175197	1772.516327	1.164018311
IAV_hPCLS	ENSG00000184898	530.8223701	1.162838839
IAV_hPCLS	ENSG00000246731	32.72925395	1.160576746
IAV_hPCLS	ENSG00000168421	217.7386317	1.159487694
IAV_hPCLS	ENSG00000155962	3875.004504	1.158933112
IAV_hPCLS	ENSG00000185262	3716.438195	1.15802708
IAV_hPCLS	ENSG00000284964	34.42546093	1.157808496
IAV_hPCLS	ENSG00000231274	38.94345568	1.156165727
IAV_hPCLS	ENSG00000133313	9024.050367	1.155903426
IAV_hPCLS	ENSG00000189377	5036.874425	1.154371889
IAV_hPCLS	ENSG00000238072	257.2606941	1.152606623
IAV_hPCLS	ENSG00000197903	549.4106866	1.152426844
IAV_hPCLS	ENSG00000204422	2098.51795	1.150342963
IAV_hPCLS	ENSG00000140465	389.1624009	1.148688683
IAV_hPCLS	ENSG00000166741	6548.116077	1.148657702
IAV_hPCLS	ENSG00000231528	183.1276226	1.146042827
IAV_hPCLS	ENSG00000095794	2306.128284	1.145979161
IAV_hPCLS	ENSG00000131943	1284.597349	1.144856003
IAV_hPCLS	ENSG00000149932	3075.902946	1.144436269
IAV_hPCLS	ENSG00000127666	2322.425767	1.142820829
IAV_hPCLS	ENSG00000138670	1028.512006	1.142665464
IAV_hPCLS	ENSG00000038210	1445.861094	1.142230261
IAV_hPCLS	ENSG00000154760	988.4537139	1.140240954
IAV_hPCLS	ENSG00000148677	7092.917721	1.139674207
IAV_hPCLS	ENSG00000121898	527.5897227	1.138828718
IAV_hPCLS	ENSG00000284691	302.3423176	1.138285258
IAV_hPCLS	ENSG00000143878	13118.32772	1.136082957
IAV_hPCLS	ENSG00000204427	2186.579893	1.134900413
IAV_hPCLS	ENSG00000283528	134.4220365	1.13460717
IAV_hPCLS	ENSG00000271672	24.17887038	1.133463156
IAV_hPCLS	ENSG00000116711	1043.836034	1.13193755
IAV_hPCLS	ENSG00000268173	19582.77219	1.127538094
IAV_hPCLS	ENSG00000161091	4018.143677	1.127354367
IAV_hPCLS	ENSG00000162493	2377.623895	1.127076774
IAV_hPCLS	ENSG00000101596	4178.289342	1.124845182
IAV_hPCLS	ENSG00000260170	3795.947925	1.124803656
IAV_hPCLS	ENSG00000291149	538.5475379	1.123638709
IAV_hPCLS	ENSG00000176170	3341.131744	1.121773875
IAV_hPCLS	ENSG00000165806	3157.555782	1.121052505
IAV_hPCLS	ENSG00000176386	961.9354586	1.120874355
IAV_hPCLS	ENSG00000162881	27.16720478	1.120304631
IAV_hPCLS	ENSG00000158859	16639.72342	1.119798935
IAV_hPCLS	ENSG00000234571	25.2303001	1.119078561
IAV_hPCLS	ENSG00000174837	231.633965	1.118813778
IAV_hPCLS	ENSG00000281593	335.9006002	1.117742819
IAV_hPCLS	ENSG00000167644	2122.91483	1.115550944
IAV_hPCLS	ENSG00000237484	28.03045427	1.11471863
IAV_hPCLS	ENSG00000113504	4564.539681	1.114139608

IAV_hPCLS	ENSG00000273604	434.6002941	1.113769687
IAV_hPCLS	ENSG00000257732	66.79622911	1.113571137
IAV_hPCLS	ENSG00000120539	933.3778825	1.113411805
IAV_hPCLS	ENSG00000145649	332.2222398	1.113106892
IAV_hPCLS	ENSG00000188404	170.7925692	1.113045798
IAV_hPCLS	ENSG00000221500	15.44391186	1.113006302
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IAV_hPCLS	ENSG00000183484	336.0503665	1.111728611
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IAV_hPCLS	ENSG00000288934	40.05238926	1.110542815
IAV_hPCLS	ENSG00000158773	2504.152763	1.10972481
IAV_hPCLS	ENSG00000166750	10986.97895	1.109509874
IAV_hPCLS	ENSG00000146192	711.9959197	1.108761622
IAV_hPCLS	ENSG00000156831	1063.690456	1.108613578
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IAV_hPCLS	ENSG00000122432	23.9813958	1.106571291
IAV_hPCLS	ENSG00000132963	5828.76096	1.106466813
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IAV_hPCLS	ENSG00000139626	481.28372	1.103018109
IAV_hPCLS	ENSG00000073331	1369.025599	1.102034973
IAV_hPCLS	ENSG00000137462	1977.018181	1.101063992
IAV_hPCLS	ENSG00000183840	316.6057276	1.100496772
IAV_hPCLS	ENSG00000243749	1006.304162	1.100402686
IAV_hPCLS	ENSG00000224259	44.66443611	1.099750014
IAV_hPCLS	ENSG00000118640	4836.519079	1.099203423
IAV_hPCLS	ENSG00000232187	30.56562785	1.099192745
IAV_hPCLS	ENSG00000200488	70.24097421	1.098766951
IAV_hPCLS	ENSG00000289546	22.73215382	1.098271806
IAV_hPCLS	ENSG00000123992	3327.500856	1.095542497
IAV_hPCLS	ENSG00000232629	556.0372968	1.094731498
IAV_hPCLS	ENSG00000281571	50.82722849	1.094196691
IAV_hPCLS	ENSG00000290735	29.06706169	1.090159387
IAV_hPCLS	ENSG00000179021	1035.232106	1.090043699
IAV_hPCLS	ENSG00000085449	3610.63529	1.089613974
IAV_hPCLS	ENSG00000196189	1093.670908	1.089183791
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IAV_hPCLS	ENSG00000006118	4943.482007	1.088207689
IAV_hPCLS	ENSG00000170379	573.392164	1.08807364
IAV_hPCLS	ENSG00000290602	97.76921772	1.08772964
IAV_hPCLS	ENSG00000146278	6724.306921	1.087099289
IAV_hPCLS	ENSG00000117594	2528.168371	1.086146708
IAV_hPCLS	ENSG00000168685	4451.079298	1.083255506
IAV_hPCLS	ENSG00000133048	7828.99247	1.082288637
IAV_hPCLS	ENSG00000256043	1499.605682	1.081216153
IAV_hPCLS	ENSG00000140968	1361.175251	1.081080871
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IAV_hPCLS	ENSG00000102145	54.73176831	1.080550252
IAV_hPCLS	ENSG00000178750	87.56455711	1.079454071
IAV_hPCLS	ENSG00000198604	4158.414203	1.079203292
IAV_hPCLS	ENSG00000146411	177.2092257	1.078574418

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IAV_hPCLS	ENSG00000158869	4860.747509	1.073895438
IAV_hPCLS	ENSG00000189114	662.3753231	1.073780229
IAV_hPCLS	ENSG00000139921	2951.384374	1.073675291
IAV_hPCLS	ENSG00000100418	3791.403948	1.072942385
IAV_hPCLS	ENSG00000290867	272.4165829	1.072059987
IAV_hPCLS	ENSG00000145901	20295.67857	1.071894421
IAV_hPCLS	ENSG00000185475	1509.434364	1.068764515
IAV_hPCLS	ENSG00000134775	246.6724261	1.068184101
IAV_hPCLS	ENSG00000267102	95.44822767	1.066973086
IAV_hPCLS	ENSG00000177556	1505.008696	1.066549065
IAV_hPCLS	ENSG00000047634	838.5123272	1.065772331
IAV_hPCLS	ENSG00000162687	121.2604502	1.063740492
IAV_hPCLS	ENSG00000034510	60971.29909	1.06363484
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IAV_hPCLS	ENSG00000168405	1166.27777	1.058954023
IAV_hPCLS	ENSG00000137947	1324.968359	1.057985579
IAV_hPCLS	ENSG00000254703	72.8920118	1.057881961
IAV_hPCLS	ENSG00000169871	6524.906007	1.057822314
IAV_hPCLS	ENSG00000173762	227.5288193	1.056728419
IAV_hPCLS	ENSG00000122417	2217.505259	1.056324903
IAV_hPCLS	ENSG00000233870	165.321862	1.055645167
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IAV_hPCLS	ENSG00000198417	347.2209367	1.054181001
IAV_hPCLS	ENSG00000184293	31.96324129	1.054046224
IAV_hPCLS	ENSG00000149577	2469.390526	1.053201507
IAV_hPCLS	ENSG00000136634	147.5315063	1.052679705
IAV_hPCLS	ENSG00000253276	3029.056417	1.052661003
IAV_hPCLS	ENSG00000112763	3159.102058	1.052575979
IAV_hPCLS	ENSG00000183801	647.3021601	1.05242878
IAV_hPCLS	ENSG00000170222	264.8733983	1.051952517
IAV_hPCLS	ENSG00000168003	9565.497753	1.051888304
IAV_hPCLS	ENSG00000136816	1744.268807	1.051047962
IAV_hPCLS	ENSG00000142606	179.3742839	1.049434968
IAV_hPCLS	ENSG00000232024	176.8051971	1.049358204
IAV_hPCLS	ENSG00000234431	485.1742045	1.04883241
IAV_hPCLS	ENSG00000166016	823.5341209	1.046541163
IAV_hPCLS	ENSG00000196371	701.305123	1.045965143
IAV_hPCLS	ENSG00000289692	3860.206035	1.045631915
IAV_hPCLS	ENSG00000267547	33.37876044	1.043304884
IAV_hPCLS	ENSG00000289691	435.6107564	1.042754305
IAV_hPCLS	ENSG00000214748	55.75073707	1.041998234
IAV_hPCLS	ENSG00000176473	387.7279824	1.040979932
IAV_hPCLS	ENSG00000187479	5095.388424	1.036909819
IAV_hPCLS	ENSG00000027869	294.0562141	1.036105102
IAV_hPCLS	ENSG00000172432	5359.536019	1.036034706
IAV_hPCLS	ENSG00000104325	2270.758658	1.035632395
IAV_hPCLS	ENSG00000281181	21.09309738	1.035420372
IAV_hPCLS	ENSG00000041880	1333.368381	1.034741204

IAV_hPCLS	ENSG00000289161	210.9094405	1.034424068
IAV_hPCLS	ENSG00000258920	71.58452795	1.034165961
IAV_hPCLS	ENSG00000173372	5183.039295	1.033812659
IAV_hPCLS	ENSG00000149308	1299.022192	1.033095228
IAV_hPCLS	ENSG00000105939	3896.965564	1.032303949
IAV_hPCLS	ENSG00000118976	71.07315012	1.031692226
IAV_hPCLS	ENSG00000196776	8635.256347	1.030441513
IAV_hPCLS	ENSG00000180828	127.5846928	1.030109481
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IAV_hPCLS	ENSG00000179627	789.2253484	1.029502779
IAV_hPCLS	ENSG00000064012	1461.493164	1.029134505
IAV_hPCLS	ENSG00000073605	682.4861911	1.028206623
IAV_hPCLS	ENSG00000120533	2225.910528	1.027758812
IAV_hPCLS	ENSG00000249992	2488.339032	1.026184125
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IAV_hPCLS	ENSG00000272512	164.4741561	1.024994116
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IAV_hPCLS	ENSG00000028116	1291.360626	1.023453281
IAV_hPCLS	ENSG00000123146	4975.912221	1.022461321
IAV_hPCLS	ENSG00000043462	2981.230724	1.022177431
IAV_hPCLS	ENSG00000138378	467.0125282	1.019723168
IAV_hPCLS	ENSG00000105374	385.3522639	1.019245883
IAV_hPCLS	ENSG00000159202	6611.290117	1.017502436
IAV_hPCLS	ENSG00000128274	2251.343868	1.017306036
IAV_hPCLS	ENSG00000158125	37.71662946	1.014840047
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IAV_hPCLS	ENSG00000274290	21.33371478	1.009282511
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IAV_hPCLS	ENSG00000105963	971.8207739	1.005755044
IAV_hPCLS	ENSG00000280649	66.41586594	1.005540758
IAV_hPCLS	ENSG00000179344	2922.409573	1.005332614
IAV_hPCLS	ENSG00000184232	1316.781698	1.004792749
IAV_hPCLS	ENSG00000184014	8681.991128	1.00458718
IAV_hPCLS	ENSG00000256060	272.2042812	1.00452361
IAV_hPCLS	ENSG00000184557	12071.45141	1.003757902
IAV_hPCLS	ENSG00000187764	1059.062375	1.001908797
IAV_hPCLS	ENSG00000104921	56.12221158	1.0017763
IAV_hPCLS	ENSG00000170956	35.82410343	1.001569398
IAV_hPCLS	ENSG00000070759	429.0869877	1.00153363
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IAV_hPCLS	ENSG00000106686	212.3201396	1.000040398
Spn_hPCLS	ENSG00000003989	1151.230015	1.413807777
Spn_hPCLS	ENSG00000006210	11027.19141	2.285907797
Spn_hPCLS	ENSG00000007908	2647.799079	6.87661735
Spn_hPCLS	ENSG00000010818	4311.149552	1.121616929
Spn_hPCLS	ENSG00000011422	7873.635922	1.257247078
Spn_hPCLS	ENSG00000013619	682.7748838	1.330416767

Spn_hPCLS	ENSG00000023445	7488.771647	2.038703414
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Spn_hPCLS	ENSG00000049249	312.1992481	1.410016569
Spn_hPCLS	ENSG00000050730	758.9046783	2.592947665
Spn_hPCLS	ENSG00000056558	6533.230313	2.682365845
Spn_hPCLS	ENSG00000073756	21222.77721	2.514218873
Spn_hPCLS	ENSG00000077150	8620.028801	1.453851972
Spn_hPCLS	ENSG00000080709	764.6576597	1.066924295
Spn_hPCLS	ENSG00000081041	5970.889217	2.930045742
Spn_hPCLS	ENSG00000081277	631.8477316	1.078220286
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Spn_hPCLS	ENSG00000090104	969.1332533	1.260338302
Spn_hPCLS	ENSG00000090339	43176.90695	1.582254304
Spn_hPCLS	ENSG00000095752	5155.223676	3.541482145
Spn_hPCLS	ENSG00000099985	313.6276723	2.402799923
Spn_hPCLS	ENSG00000100292	8632.805111	1.013495767
Spn_hPCLS	ENSG00000100311	3119.211377	1.228717881
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Spn_hPCLS	ENSG00000101384	5578.939791	1.13449649
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Spn_hPCLS	ENSG00000104635	10232.89742	1.259639903
Spn_hPCLS	ENSG00000104722	37.497789	1.248848378
Spn_hPCLS	ENSG00000104856	3041.894555	1.282728846
Spn_hPCLS	ENSG00000105246	105.5095743	1.824555769
Spn_hPCLS	ENSG00000105371	155.8257519	1.179314375
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Spn_hPCLS	ENSG00000108342	8156.037473	4.5048831
Spn_hPCLS	ENSG00000108551	581.5977708	1.316028973
Spn_hPCLS	ENSG00000108691	29228.0562	1.589851177
Spn_hPCLS	ENSG00000108702	14.69174977	2.272785675
Spn_hPCLS	ENSG00000108932	240.6426731	2.1316532
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Spn_hPCLS	ENSG00000110944	776.8625633	4.087658673
Spn_hPCLS	ENSG00000111432	98.49711239	1.627791036
Spn_hPCLS	ENSG00000112115	26.54235289	5.103226363
Spn_hPCLS	ENSG00000112149	2929.619198	1.532733549
Spn_hPCLS	ENSG00000113070	3896.881337	1.200706497
Spn_hPCLS	ENSG00000114270	3537.800986	1.307471443
Spn_hPCLS	ENSG00000115008	1768.756077	4.849737746
Spn_hPCLS	ENSG00000115009	3601.54361	4.266930612
Spn_hPCLS	ENSG00000115353	39.25214429	1.521029458
Spn_hPCLS	ENSG00000115604	728.2298406	1.010379813
Spn_hPCLS	ENSG00000115919	1981.469036	1.257123389
Spn_hPCLS	ENSG00000115956	3700.469851	1.520302122
Spn_hPCLS	ENSG00000117036	2245.081793	1.191268841
Spn_hPCLS	ENSG00000117228	35320.59034	1.565539915

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Spn_hPCLS	ENSG00000118976	71.07315012	1.124161979
Spn_hPCLS	ENSG00000119508	3302.29127	1.822434555
Spn_hPCLS	ENSG00000120149	172.6408312	1.243597843
Spn_hPCLS	ENSG00000120217	4449.152844	1.010704079
Spn_hPCLS	ENSG00000120337	226.2791127	2.767384336
Spn_hPCLS	ENSG00000120738	4244.176588	1.219695502
Spn_hPCLS	ENSG00000121039	1175.080981	1.358073254
Spn_hPCLS	ENSG00000121440	2212.972509	1.018603796
Spn_hPCLS	ENSG00000121594	519.0934241	1.017630605
Spn_hPCLS	ENSG00000122641	8806.347091	2.504467869
Spn_hPCLS	ENSG00000123342	1509.309328	1.021540761
Spn_hPCLS	ENSG00000123358	3235.274005	1.291917687
Spn_hPCLS	ENSG00000123610	8316.706323	2.58890848
Spn_hPCLS	ENSG00000124145	10001.48281	1.085539434
Spn_hPCLS	ENSG00000124216	802.4240921	1.200998378
Spn_hPCLS	ENSG00000124762	15793.96378	1.11447228
Spn_hPCLS	ENSG00000124882	654.7544873	4.611412849
Spn_hPCLS	ENSG00000125347	18922.36783	1.638386598
Spn_hPCLS	ENSG00000125430	546.1971644	1.824395576
Spn_hPCLS	ENSG00000125462	16.6645784	2.223847283
Spn_hPCLS	ENSG00000125538	15544.41134	5.51480379
Spn_hPCLS	ENSG00000125740	846.9358842	1.167529822
Spn_hPCLS	ENSG00000128016	7769.864019	1.461560811
Spn_hPCLS	ENSG00000128342	30488.18422	3.586138274
Spn_hPCLS	ENSG00000130477	98.25162843	1.488876839
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Spn_hPCLS	ENSG00000131979	2978.497984	1.668631762
Spn_hPCLS	ENSG00000132003	2284.041447	1.241430715
Spn_hPCLS	ENSG00000132510	7463.253812	1.484096117
Spn_hPCLS	ENSG00000133065	3988.632797	1.373806176
Spn_hPCLS	ENSG00000133069	878.6809882	1.069726547
Spn_hPCLS	ENSG00000133805	1283.344537	1.0401861
Spn_hPCLS	ENSG00000134070	3138.661495	1.509802145
Spn_hPCLS	ENSG00000134363	2376.221362	1.341093373
Spn_hPCLS	ENSG00000135436	32.43296671	2.36797703
Spn_hPCLS	ENSG00000136244	47856.35594	3.710130789
Spn_hPCLS	ENSG00000136634	147.5315063	1.827594815
Spn_hPCLS	ENSG00000136689	6508.003042	1.063032696
Spn_hPCLS	ENSG00000137331	23389.23935	2.487094566
Spn_hPCLS	ENSG00000137507	4028.906453	1.004262915
Spn_hPCLS	ENSG00000137571	80.64734474	1.004308036
Spn_hPCLS	ENSG00000137877	791.4826608	1.086892154
Spn_hPCLS	ENSG00000138166	3002.014745	1.065164096
Spn_hPCLS	ENSG00000139572	307.6876889	1.668032475
Spn_hPCLS	ENSG00000140465	389.1624009	1.731523925
Spn_hPCLS	ENSG00000141682	883.3109733	1.239413201
Spn_hPCLS	ENSG00000142178	1406.884108	1.629639429
Spn_hPCLS	ENSG00000143333	866.1784893	1.295217664
Spn_hPCLS	ENSG00000143878	13118.32772	1.815153356
Spn_hPCLS	ENSG00000144655	4884.101569	1.234365194

Spn_hPCLS	ENSG00000144802	4646.20845	1.612362178
Spn_hPCLS	ENSG00000145040	69.7421462	1.994052127
Spn_hPCLS	ENSG00000145365	1149.66475	1.024293828
Spn_hPCLS	ENSG00000145777	997.5037514	1.318194793
Spn_hPCLS	ENSG00000145779	2304.101297	1.148131266
Spn_hPCLS	ENSG00000145901	20295.67857	1.361200175
Spn_hPCLS	ENSG00000146232	2121.632911	1.296273754
Spn_hPCLS	ENSG00000146278	6724.306921	1.048740838
Spn_hPCLS	ENSG00000146592	704.9562647	1.024190279
Spn_hPCLS	ENSG00000149289	1689.267284	1.076917144
Spn_hPCLS	ENSG00000151012	3348.07099	1.322634528
Spn_hPCLS	ENSG00000151014	600.3819131	1.381263636
Spn_hPCLS	ENSG00000151136	115.0151629	1.20835999
Spn_hPCLS	ENSG00000152229	751.2924874	1.084492678
Spn_hPCLS	ENSG00000153234	1743.096314	2.204580182
Spn_hPCLS	ENSG00000153976	461.0221076	1.02958399
Spn_hPCLS	ENSG00000154548	37.36510014	1.029420039
Spn_hPCLS	ENSG00000158050	278.9717378	1.827536255
Spn_hPCLS	ENSG00000158517	870.7348011	1.414686626
Spn_hPCLS	ENSG00000158859	16639.72342	1.978955731
Spn_hPCLS	ENSG00000159261	397.0834634	1.350574694
Spn_hPCLS	ENSG00000160097	38.72014395	1.856391352
Spn_hPCLS	ENSG00000160326	2570.594227	1.203140819
Spn_hPCLS	ENSG00000160870	38.77125811	1.642897085
Spn_hPCLS	ENSG00000162490	360.89423	1.581085819
Spn_hPCLS	ENSG00000162711	312.9757701	1.764193852
Spn_hPCLS	ENSG00000162772	4576.479141	1.140854121
Spn_hPCLS	ENSG00000162924	1696.136057	1.255483184
Spn_hPCLS	ENSG00000163121	1679.16785	2.187986621
Spn_hPCLS	ENSG00000163132	602.7060758	1.290878927
Spn_hPCLS	ENSG00000163545	1149.177935	1.4365818
Spn_hPCLS	ENSG00000163638	6832.683051	1.282895621
Spn_hPCLS	ENSG00000163661	1362.992244	2.070950198
Spn_hPCLS	ENSG00000163673	55.19146749	2.4669726
Spn_hPCLS	ENSG00000163734	6751.002511	3.904546465
Spn_hPCLS	ENSG00000163739	12574.77161	3.30546693
Spn_hPCLS	ENSG00000163874	3923.850789	1.900924183
Spn_hPCLS	ENSG00000164236	711.2170394	1.089843129
Spn_hPCLS	ENSG00000164284	2292.207239	1.005089527
Spn_hPCLS	ENSG00000164400	157.585698	1.7756989
Spn_hPCLS	ENSG00000165195	958.95921	1.008273247
Spn_hPCLS	ENSG00000166016	823.5341209	1.051509029
Spn_hPCLS	ENSG00000166523	522.6107563	1.451448922
Spn_hPCLS	ENSG00000166920	1708.679744	2.226225163
Spn_hPCLS	ENSG00000167034	521.4391989	1.292938024
Spn_hPCLS	ENSG00000167100	1184.678329	1.096655764
Spn_hPCLS	ENSG00000167604	425.692332	1.023870583
Spn_hPCLS	ENSG00000167703	2432.558354	1.035406739
Spn_hPCLS	ENSG00000167874	80.97283312	2.061462948
Spn_hPCLS	ENSG00000168685	4451.079298	1.097970332
Spn_hPCLS	ENSG00000169245	96279.74982	2.319364967
Spn_hPCLS	ENSG00000169429	94050.98351	3.829172916

Spn_hPCLS	ENSG00000170525	10600.59528	1.228456465
Spn_hPCLS	ENSG00000171223	15502.84608	1.204973722
Spn_hPCLS	ENSG00000172602	1347.552249	3.231262226
Spn_hPCLS	ENSG00000172738	442.5209209	1.266086607
Spn_hPCLS	ENSG00000173918	1819.7315	1.123564427
Spn_hPCLS	ENSG00000175592	3525.972764	1.362599723
Spn_hPCLS	ENSG00000176692	137.3865011	1.103006904
Spn_hPCLS	ENSG00000178538	476.3520008	1.961603706
Spn_hPCLS	ENSG00000179388	448.36928	1.806615072
Spn_hPCLS	ENSG00000179862	340.6995632	2.059890464
Spn_hPCLS	ENSG00000180316	50.30601775	2.127908906
Spn_hPCLS	ENSG00000181634	2182.858324	1.246167622
Spn_hPCLS	ENSG00000182782	498.620074	1.358122839
Spn_hPCLS	ENSG00000183484	336.0503665	1.554940094
Spn_hPCLS	ENSG00000184371	14163.78667	1.263695641
Spn_hPCLS	ENSG00000184588	4425.145171	1.585072867
Spn_hPCLS	ENSG00000185022	5570.152891	1.044821292
Spn_hPCLS	ENSG00000185215	13020.86528	1.870640089
Spn_hPCLS	ENSG00000185245	16.91257441	3.39806849
Spn_hPCLS	ENSG00000185291	834.3974784	1.04154437
Spn_hPCLS	ENSG00000186431	159.7323503	2.590433429
Spn_hPCLS	ENSG00000186827	2321.323685	1.192821079
Spn_hPCLS	ENSG00000186891	157.0132307	1.133039335
Spn_hPCLS	ENSG00000187479	5095.388424	1.224193824
Spn_hPCLS	ENSG00000187678	5807.581099	1.195263536
Spn_hPCLS	ENSG00000187957	225.6703894	1.654742291
Spn_hPCLS	ENSG00000189120	1124.49865	1.306300211
Spn_hPCLS	ENSG00000197632	7116.787413	2.559991526
Spn_hPCLS	ENSG00000198535	501.8344063	1.630670264
Spn_hPCLS	ENSG00000203635	19.41372879	1.576014663
Spn_hPCLS	ENSG00000203804	30.92269362	1.482539321
Spn_hPCLS	ENSG00000204099	57.88774598	1.982857015
Spn_hPCLS	ENSG00000205502	1018.424948	2.297091806
Spn_hPCLS	ENSG00000211689	163.6105481	1.37293012
Spn_hPCLS	ENSG00000211697	59.72455917	1.221524396
Spn_hPCLS	ENSG00000213088	283.12886	2.013356878
Spn_hPCLS	ENSG00000213089	29.51297845	1.18029786
Spn_hPCLS	ENSG00000218565	39.79317821	2.391806186
Spn_hPCLS	ENSG00000225492	4403.379564	1.192530362
Spn_hPCLS	ENSG00000227507	635.3624478	1.681249189
Spn_hPCLS	ENSG00000227908	15.81100239	1.523212007
Spn_hPCLS	ENSG00000228022	45.78227967	2.114548675
Spn_hPCLS	ENSG00000229644	3090.140274	1.416598585
Spn_hPCLS	ENSG00000231274	38.94345568	1.189735092
Spn_hPCLS	ENSG00000232618	52.02546202	2.201825979
Spn_hPCLS	ENSG00000232810	1645.660126	3.557197128
Spn_hPCLS	ENSG00000237781	52.30877184	1.041162403
Spn_hPCLS	ENSG00000237927	60.64608722	1.549961611
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Spn_hPCLS	ENSG00000242048	82.99119726	3.210488008
Spn_hPCLS	ENSG00000243509	1652.46278	1.13813023
Spn_hPCLS	ENSG00000250274	25.70728309	1.836446625

Spn_hPCLS	ENSG00000251230	682.1631835	1.777448286
Spn_hPCLS	ENSG00000252561	566.9457124	1.150415825
Spn_hPCLS	ENSG00000253123	73.65382655	1.389811329
Spn_hPCLS	ENSG00000253320	84.87675441	1.118082805
Spn_hPCLS	ENSG00000253522	295.7711074	2.699262572
Spn_hPCLS	ENSG00000255150	136.5773052	1.273545236
Spn_hPCLS	ENSG00000255398	337.7521044	1.648176447
Spn_hPCLS	ENSG00000258691	679.0177466	2.586076061
Spn_hPCLS	ENSG00000259863	36.90863492	1.29030521
Spn_hPCLS	ENSG00000260196	88.45377597	1.042319086
Spn_hPCLS	ENSG00000261618	186.2666846	2.242174048
Spn_hPCLS	ENSG00000262533	42.07096858	2.21942422
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Spn_hPCLS	ENSG00000268734	40.88256957	2.858041126
Spn_hPCLS	ENSG00000269906	33.02083702	1.2758936
Spn_hPCLS	ENSG00000272269	165.9293	1.245127668
Spn_hPCLS	ENSG00000272636	599.2154045	1.15958169
Spn_hPCLS	ENSG00000273604	434.6002941	1.349831758
Spn_hPCLS	ENSG00000275302	4438.430297	3.638545465
Spn_hPCLS	ENSG00000275718	97.50130495	2.264915456
Spn_hPCLS	ENSG00000275993	1550.735792	1.594013441
Spn_hPCLS	ENSG00000276070	2437.616224	4.147825349
Spn_hPCLS	ENSG00000276085	1436.489029	3.957032469
Spn_hPCLS	ENSG00000276462	14.8813958	3.048408551
Spn_hPCLS	ENSG00000277402	105.0236617	1.319910986
Spn_hPCLS	ENSG00000277632	5073.272669	3.326375485
Spn_hPCLS	ENSG00000279805	78.84910022	1.062237557
Spn_hPCLS	ENSG00000284386	669.3710642	2.308608439
Spn_hPCLS	ENSG00000285744	585.8799707	1.314260726
Spn_hPCLS	ENSG00000286105	214.2254316	1.343759962
Spn_hPCLS	ENSG00000287553	71.34191437	2.565637218
Spn_hPCLS	ENSG00000288928	18.16140115	1.646358008
Spn_hPCLS	ENSG00000289009	133.4267162	1.500269018
Spn_hPCLS	ENSG00000289547	71.42293721	2.486376362
Spn_hPCLS	ENSG00000289724	3025.995486	2.494909885
Spn_hPCLS	ENSG00000289728	279.6751806	1.688230856
Spn_hPCLS	ENSG00000289746	151.9924227	1.357884365
Spn_hPCLS	ENSG00000289880	91.36719904	1.571630936
Spn_hPCLS	ENSG00000290041	24.93142309	1.620348382
Spn_hPCLS	ENSG00000290525	2774.527666	1.171829606
Spn_hPCLS	ENSG00000291237	93241.96383	1.5844429

lfcSE	stat	pvalue	padj	gene_name
0.095737139	13.00090664	1.209E-38	4.93653E-37	Klf6
1.209618294	2.927205656	0.00342023	0.010808222	Itgb2l
0.655815602	5.852922763	4.8301E-09	3.8794E-08	Fgf23
0.542300855	8.089962279	5.9683E-16	8.68726E-15	Btbd17
0.296021663	24.82462215	4.862E-136	1.5713E-133	Slfn4
0.876033203	8.362050066	6.1638E-17	9.45934E-16	Lhx2
0.091908145	21.54907242	5.402E-103	9.1715E-101	Trim25
0.173656363	39.05462685	0	0	Mx1
0.209863725	12.01254887	3.0529E-33	1.02885E-31	Fap
1.217723747	7.968824109	1.6019E-15	2.25343E-14	Gcg
0.115793888	11.53801947	8.4857E-31	2.57799E-29	Itga5
0.290650831	5.386568365	7.1816E-08	4.99359E-07	Adora3
0.469836184	3.630305812	0.00028309	0.001131921	Sox9
0.180546617	10.0971092	5.6895E-24	1.29784E-22	Hk2
0.163645503	9.240307182	2.4579E-20	4.60445E-19	Cd52
0.124166808	10.92808217	8.4618E-28	2.27908E-26	Loxl3
0.260423698	11.07868333	1.592E-28	4.44854E-27	Il12rb1
0.403590244	3.536308056	0.00040576	0.001575702	Slc5a5
0.43974691	2.854146797	0.00431526	0.013348839	Fasl
0.116119395	10.30634944	6.5959E-25	1.57422E-23	Mmp14
0.166405594	21.15103941	2.699E-99	4.31018E-97	Ccl3
1.440195363	3.313912389	0.00092	0.003311864	Wfdc18
0.416840347	5.063808328	4.1096E-07	2.59339E-06	Icam4
0.19073256	5.944484569	2.7733E-09	2.28279E-08	S100a4
0.081367396	14.10958238	3.3154E-45	1.63488E-43	S100a6
0.402899052	4.64833302	3.3463E-06	1.85777E-05	Slc13a2
0.104944027	28.56717598	1.719E-179	1.0247E-176	Lgals9
0.407232873	13.29762644	2.3893E-40	1.02064E-38	Timp1
0.157892612	17.57500407	3.8286E-69	3.35643E-67	Mxd1
0.141370556	7.536912979	4.8123E-14	6.0636E-13	Oas1c
2.020660093	2.542476197	0.01100701	0.03070015	Oas1h
0.107305665	18.31689867	6.0673E-75	5.98391E-73	Sema6b
0.171647438	9.736368611	2.1096E-22	4.38356E-21	Tubb6
0.098880475	11.00150445	3.7581E-28	1.03188E-26	Itga3
0.081505415	19.41126908	6.1977E-84	7.42233E-82	Ifrd1
0.380430407	6.980887617	2.9332E-12	3.19214E-11	Tat
0.085472007	24.33739344	7.884E-131	2.3241E-128	Tcirg1
0.056666082	18.99307796	1.9458E-80	2.17494E-78	Rin2
0.505662667	5.239139228	1.6133E-07	1.07736E-06	Folh1
0.292731194	3.715841911	0.00020253	0.000834181	Ccne1
0.142209898	11.75064699	7.008E-32	2.21434E-30	Spi1
0.12294102	16.52927059	2.2586E-61	1.69244E-59	Mov10
0.094222291	18.02712997	1.1933E-72	1.11925E-70	Rhoc
0.151426819	18.51865689	1.4603E-76	1.47831E-74	Angptl4
0.144121674	23.75182779	1.052E-124	2.7667E-122	Daxx
0.066175808	26.24787386	7.558E-152	3.0722E-149	Irf9
0.12616726	11.26384993	1.9792E-29	5.69676E-28	Ikzf4
0.098438197	14.2778408	3.0078E-46	1.50816E-44	Axl
0.159416879	10.28109344	8.5749E-25	2.02849E-23	Lcp2
0.087179595	16.93344602	2.55E-64	2.07925E-62	Naa20
0.167745815	8.764263191	1.88E-18	3.17791E-17	Ggct

0.413762408	2.852772115	0.00433397	0.013402081	Plin4
0.208187071	26.08480434	5.423E-150	2.049E-147	Pla1a
0.123324885	8.681061059	3.9209E-18	6.5008E-17	Il17ra
0.099058671	18.80205323	7.2649E-79	7.85838E-77	Arrdc2
0.102520418	15.9667725	2.1777E-57	1.46779E-55	Relb
0.277376551	7.844934673	4.3318E-15	5.88378E-14	Apoc2
0.155799024	8.694874511	3.4721E-18	5.77455E-17	Klf4
0.103617344	13.02235331	9.1313E-39	3.75123E-37	Hck
0.05786668	18.10554757	2.8813E-73	2.75069E-71	Keap1
0.493584252	2.453228723	0.01415803	0.038248063	Rab3b
0.175653015	11.8147004	3.2772E-32	1.05411E-30	Cyp4f18
0.105304755	14.48809215	1.4409E-47	7.57911E-46	Ier3
0.103744741	10.10905833	5.0366E-24	1.15185E-22	Cp
0.279553251	11.85941347	1.9232E-32	6.23834E-31	Has1
0.158178578	7.625967193	2.4221E-14	3.12533E-13	Itpkc
0.499225395	2.854764736	0.00430687	0.013325969	Brinp2
0.073830793	15.98399352	1.6521E-57	1.11638E-55	Stat3
0.139804954	7.548865759	4.3907E-14	5.54798E-13	Ptpn6
0.410803417	4.128156271	3.6568E-05	0.000171381	Il12b
0.140498082	23.12153489	2.812E-118	6.7355E-116	Hif3a
0.592711279	4.11490686	3.8734E-05	0.000180928	Spic
1.907103933	2.792699909	0.00522702	0.015869163	Sst
0.123134363	12.37367818	3.6282E-35	1.32241E-33	Bid
0.484845438	2.679859126	0.00736531	0.021593655	Psg17
1.391123903	2.440832366	0.01465345	0.039443466	Psg19
0.143155726	11.28927467	1.4826E-29	4.29028E-28	Cd33
0.279694297	3.730555681	0.00019106	0.000790213	Nkg7
0.203267269	5.42466998	5.8062E-08	4.09562E-07	Cd244a
0.161946225	12.95132917	2.3092E-38	9.24579E-37	Pgf
0.089791984	13.64825417	2.0677E-42	9.30687E-41	Plod3
0.09928198	12.32873849	6.3432E-35	2.2933E-33	Map2k1
0.291065642	4.804127927	1.5543E-06	9.07794E-06	Hspb1
0.130466729	19.16329567	7.4972E-82	8.48611E-80	Rasa4
0.101204247	14.36876607	8.1266E-47	4.13671E-45	Cstb
0.235025916	4.257869898	2.0638E-05	0.000100736	Sh2b2
0.294117551	4.678611088	2.8882E-06	1.61754E-05	Cadm3
0.334874751	4.471655574	7.7616E-06	4.06033E-05	Hmox1
0.345882461	8.578112843	9.6442E-18	1.5623E-16	Insrr
0.131080997	18.93009974	6.444E-80	7.11389E-78	Mthfd2
0.139676649	14.32790572	1.4647E-46	7.38579E-45	Ampd3
0.448941851	8.688101632	3.6855E-18	6.12174E-17	Mmp8
0.281999445	6.793443228	1.0949E-11	1.13315E-10	Tnfsf14
0.263067633	3.908107859	9.3022E-05	0.000406219	Cnga2
0.61585188	3.047947316	0.0023041	0.007605497	Prg4
0.982799439	2.369150777	0.01782898	0.046697509	Upk3bl
0.151996493	9.46289438	2.9953E-21	5.90833E-20	Hspb7
1.763181253	3.240505212	0.00119318	0.004203871	Etv2
0.392723836	14.46221111	2.0994E-47	1.09571E-45	Adamts4
0.099420121	18.03287287	1.0756E-72	1.01238E-70	Rnf114
0.133768645	11.98177207	4.4276E-33	1.47362E-31	Epha2
0.268986923	4.148727343	3.3433E-05	0.000158023	A530013C23R
0.120888801	8.466084257	2.5378E-17	4.01647E-16	Cyba

0.25199556	3.985366685	6.7376E-05	0.000301993	Itih3
0.231621525	11.24568128	2.4321E-29	6.97796E-28	Tcf23
0.095891751	14.78104529	1.9413E-49	1.06716E-47	Sod2
0.091966302	33.31485519	2.353E-243	3.1561E-240	Hap1
0.137383002	8.954353422	3.4173E-19	6.00741E-18	Lrrc8a
0.107565805	21.91865376	1.725E-106	3.1911E-104	Bcl2l1
0.307803542	12.21191501	2.6849E-34	9.43987E-33	Dio2
0.068953809	16.66130193	2.5051E-62	1.9311E-60	Fnbp4
0.15373081	7.363467978	1.7919E-13	2.15079E-12	Relt
0.125802135	12.13937971	6.5319E-34	2.2639E-32	Sertad1
0.114175607	10.52807402	6.4133E-26	1.59595E-24	Carhsp1
0.07421753	13.90106312	6.2407E-44	2.94225E-42	Tmem184b
0.291699688	8.430805918	3.4329E-17	5.36665E-16	Ccl8
0.196342131	5.541255751	3.0031E-08	2.18679E-07	Prr29
0.510102445	9.146366293	5.8881E-20	1.08485E-18	Mymk
0.208069452	9.96274097	2.2186E-23	4.87039E-22	Trpm2
0.081739309	20.76871364	8.3053E-96	1.28045E-93	Apobec3
0.117683473	9.255108074	2.1401E-20	4.02606E-19	Fxyd5
0.108677443	19.08599612	3.3012E-81	3.72096E-79	Nuak2
0.101582805	10.57396904	3.9348E-26	9.93929E-25	Rassf1
0.082388492	16.05339953	5.4117E-58	3.70342E-56	Slc3a2
0.069450261	37.24869786	1.112E-303	2.7125E-300	Ifi35
0.253586796	15.29592746	8.1393E-53	5.01942E-51	Apol7a
0.10642731	11.5189016	1.0595E-30	3.21163E-29	Cars
0.22848321	7.87768015	3.3352E-15	4.58344E-14	Mcoln2
0.071365218	16.78824301	2.9752E-63	2.36835E-61	Tbrg1
0.133558061	8.578803747	9.5865E-18	1.55388E-16	Odc1
0.144492628	20.14195102	3.1662E-90	4.28966E-88	Steap4
0.161997327	23.02669963	2.519E-117	5.979E-115	Mlkl
0.385425572	3.938958407	8.1836E-05	0.000361372	Cdh23
1.462811561	3.359386324	0.00078116	0.002853785	4931406B18R
0.738153691	6.545566133	5.927E-11	5.77967E-10	Lypd8
0.18276191	6.314273156	2.7143E-10	2.49025E-09	Tnfaip8l2
1.011034906	2.361578402	0.01819732	0.047560542	1700020L13Ri
0.424408709	3.370226269	0.00075106	0.002753387	Klra17
0.084757017	25.74945417	3.269E-146	1.218E-143	Csf1
0.145780831	14.60829457	2.4866E-48	1.34761E-46	Dll1
0.50760364	3.374878007	0.00073848	0.002709695	Plekhg4
0.105816737	9.59379521	8.4903E-22	1.71636E-20	Gata2
0.243407225	5.504434405	3.7036E-08	2.67361E-07	Aldh1a3
0.112848084	15.11456594	1.2982E-51	7.60404E-50	Gadd45b
0.141039891	10.08340059	6.5422E-24	1.4873E-22	Cybb
0.491370774	7.184350069	6.7528E-13	7.73483E-12	Gzmb
0.13957585	11.5312626	9.1788E-31	2.7854E-29	C4a
0.127825096	8.624079363	6.461E-18	1.06008E-16	Lpl
0.073617071	16.62122533	4.8922E-62	3.74969E-60	Capza2
0.351066212	15.29341325	8.4598E-53	5.20508E-51	Fcgr1
0.108951165	14.31031178	1.8867E-46	9.49558E-45	H2-M3
0.102425963	11.15011345	7.1515E-29	2.02156E-27	Ctsz
0.170415032	26.91462871	1.481E-159	6.7328E-157	Cd274
0.422620699	4.231032535	2.3262E-05	0.000112641	Pdcd1lg2
0.935165693	3.225707124	0.00125662	0.004408272	Il10

0.103840408	12.79525769	1.7427E-37	6.84489E-36	H3f3b
0.092168503	13.11718541	2.625E-39	1.09008E-37	Sdc4
0.115314802	11.08884	1.4212E-28	3.97962E-27	Il13ra1
0.100816029	16.12817401	1.6173E-58	1.12691E-56	Rnd3
1.57132213	3.795420681	0.00014739	0.000620718	Gast
0.578119643	3.367059073	0.00075974	0.002781615	Ppy
0.254651441	6.802246838	1.03E-11	1.06889E-10	Cacnb4
0.13728476	11.16553154	6.013E-29	1.70514E-27	Cd40
0.086214084	18.9447924	4.8751E-80	5.40411E-78	Serinc3
0.585814777	4.187350086	2.8223E-05	0.000134765	Eppin
0.294537661	4.653668794	3.2608E-06	1.81369E-05	Mmp9
0.14745424	28.19205495	7.318E-175	4.1768E-172	Dhx58
0.895770521	3.264596907	0.0010962	0.003888226	Sgk2
0.104899406	13.04319897	6.948E-39	2.86747E-37	B4galt5
0.107139299	9.438688005	3.7748E-21	7.41301E-20	Cyth4
0.099676509	18.68263428	6.8551E-78	7.18341E-76	Mafk
0.089682478	19.99956267	5.5557E-89	7.27017E-87	Vmp1
0.104250313	13.70431734	9.5663E-43	4.35696E-41	Gpx3
0.233454069	7.6956575	1.4077E-14	1.84748E-13	Il12rb2
0.194396643	5.423431625	5.8466E-08	4.11977E-07	Slc13a3
0.822764339	2.894570893	0.00379677	0.011887511	Wnt9b
0.84871824	3.288170442	0.00100841	0.00359949	1700001P01R
1.112393453	2.503311844	0.01230371	0.033869602	Cpsf4l
0.139134797	12.10209593	1.0295E-33	3.55431E-32	Cd68
0.136089475	16.17467331	7.61E-59	5.38646E-57	Irf1
0.599439639	6.158662675	7.3362E-10	6.42089E-09	Alox12e
0.229297814	9.548129225	1.3206E-21	2.6477E-20	Csf2
0.61649476	2.397143367	0.01652346	0.043726769	Tm4sf5
0.0836004	20.51352553	1.6304E-93	2.32641E-91	Cxcl16
0.454573904	4.307964014	1.6476E-05	8.1927E-05	Heatr9
0.32676254	16.8978684	4.6647E-64	3.7805E-62	Ccl4
0.194950291	17.48470184	1.8739E-68	1.6112E-66	Slfn3
0.097959749	29.10288053	3.301E-186	2.2137E-183	Slc25a22
0.170657335	13.32213284	1.7212E-40	7.37583E-39	Ccl9
0.07180976	17.74885681	1.759E-70	1.57288E-68	Rab5c
0.120319738	10.91299871	9.9905E-28	2.68006E-26	Noxo1
0.168095586	7.850755843	4.1354E-15	5.6341E-14	Gdpd2
0.359295896	5.6728397	1.4045E-08	1.06553E-07	Pdk4
0.110232715	9.515525093	1.808E-21	3.59531E-20	Katna1
0.151184318	6.92163654	4.4646E-12	4.77156E-11	Rab32
0.1688957	17.72923781	2.4939E-70	2.22266E-68	Tnfaip3
0.181493245	9.531837451	1.5452E-21	3.08886E-20	Crybg1
0.158067249	7.714175701	1.2177E-14	1.60674E-13	Pkib
0.597133795	4.303091413	1.6843E-05	8.35337E-05	Nts
0.516091777	3.208849898	0.00133267	0.004650132	Mrln
0.126055037	11.44470987	2.4994E-30	7.45814E-29	Sgk1
0.292859802	5.687496184	1.2892E-08	9.81353E-08	Arg1
0.395253678	4.133099639	3.579E-05	0.000168057	Mtfr2
0.100848036	20.60391485	2.5313E-94	3.77247E-92	Ccn2
0.126897294	10.40157979	2.4386E-25	5.94159E-24	Vnn3
0.56653068	5.246316736	1.5517E-07	1.03831E-06	Hal
0.119318218	9.617684602	6.733E-22	1.36729E-20	Timp3

0.150576746	10.57407418	3.9304E-26	9.93751E-25	Srgn
0.607963091	2.525622321	0.01154936	0.032013127	Tacr2
0.106444443	24.76861437	1.954E-135	6.2402E-133	Ppa1
0.127444838	10.56858708	4.1673E-26	1.05067E-24	Slc29a3
0.101052905	27.0803207	1.679E-161	8.3422E-159	Ddit4
0.102940162	10.53707629	5.8283E-26	1.45577E-24	Tbk1
0.166071802	8.949889762	3.5584E-19	6.25128E-18	Plek
0.115375019	10.1856596	2.298E-24	5.32801E-23	Egfr
0.169927974	7.705030873	1.3081E-14	1.72271E-13	Adora2a
0.300370771	6.586273853	4.51E-11	4.43171E-10	Nav3
0.131020335	10.54054586	5.6172E-26	1.40697E-24	Phlda1
0.155284954	6.443503431	1.1675E-10	1.10588E-09	Rel
0.133375457	11.81034036	3.4516E-32	1.1089E-30	Fstl3
1.966783001	2.707693656	0.00677525	0.020051143	Meikin
0.136439962	15.3301367	4.8097E-53	2.97981E-51	Gfpt2
0.094714727	16.10527872	2.3424E-58	1.62791E-56	Jade2
0.208782943	7.750234792	9.1723E-15	1.2193E-13	Havcr2
0.138102757	10.31315467	6.145E-25	1.46922E-23	Tnip1
0.171300211	10.66710244	1.4508E-26	3.74583E-25	Upp1
0.108290885	11.90406259	1.1272E-32	3.70123E-31	Tcn2
0.088016159	21.73421188	9.744E-105	1.6974E-102	Pnpt1
0.074207286	14.8272224	9.7692E-50	5.43713E-48	Dbnl
0.125653898	20.40819836	1.414E-92	1.99644E-90	Nampt
0.583313913	5.282572151	1.2738E-07	8.62921E-07	Ntsr2
0.112600054	9.782594721	1.3374E-22	2.81106E-21	Gna13
1.856603678	2.419578155	0.01553852	0.041480383	Nt5c1b
0.176012263	5.723501975	1.0435E-08	8.05091E-08	Klhl29
0.188247651	5.954363264	2.6109E-09	2.15704E-08	Fkbp1b
0.123509137	38.15659251	0	0	Cmpk2
0.27409686	26.54734008	2.756E-155	1.2122E-152	Rsad2
0.177766625	13.67851706	1.3645E-42	6.19345E-41	Slc26a4
0.158825278	6.748266882	1.4962E-11	1.5273E-10	Efr3b
0.263208114	5.560526491	2.6896E-08	1.97028E-07	Sntg2
0.198911135	11.78641603	4.5865E-32	1.45951E-30	Ccl11
0.229824074	26.23627822	1.025E-151	4.0441E-149	Rasl10b
1.288820571	6.334283745	2.3845E-10	2.19813E-09	Efcab3
0.143840517	8.14617173	3.7563E-16	5.51838E-15	Rnf135
0.118392255	16.58273206	9.2907E-62	7.04048E-60	Adap2
0.085578369	12.67161102	8.4952E-37	3.25559E-35	Ankfy1
0.113439037	9.343687609	9.3036E-21	1.78398E-19	Rhbdf2
0.199271536	23.24904317	1.455E-119	3.613E-117	Doc2b
0.075963237	15.24181568	1.8661E-52	1.12495E-50	Lrrc59
1.659162879	2.707710824	0.0067749	0.020051143	Tac4
0.125113477	11.86176741	1.8699E-32	6.07274E-31	Per1
0.129343212	10.07061116	7.4514E-24	1.68684E-22	Pik3r5
0.558631002	3.956463314	7.6068E-05	0.000337958	Myh3
0.848481112	2.459041928	0.01393083	0.037736905	Krt36
0.45274163	8.232129364	1.8391E-16	2.74399E-15	Coch
0.122368763	22.10432043	2.872E-108	5.5834E-106	Nfkbia
0.138442896	29.29095027	1.352E-188	9.3024E-186	Serpina3n
0.159392493	7.162242102	7.9368E-13	9.05627E-12	Hif1a
0.156850485	15.93257217	3.7654E-57	2.52529E-55	Arg2

0.068252559	21.7015473	1.984E-104	3.4333E-102	Susd6
0.114659684	11.64838915	2.3384E-31	7.25894E-30	Lgmn
0.878278751	4.780602613	1.7477E-06	1.01261E-05	Ifi27l2b
0.061617257	16.32160278	6.9292E-60	5.03748E-58	Npc2
0.374445137	3.871549564	0.00010815	0.000467319	Fos
0.213900593	8.723870506	2.6885E-18	4.49077E-17	Hhipl1
0.129816338	16.85629465	9.432E-64	7.57552E-62	Wars1
0.931292218	4.793107506	1.6422E-06	9.54561E-06	Amn
0.140941942	15.23139938	2.1886E-52	1.30468E-50	Tnfaip2
0.216677212	14.39831677	5.3019E-47	2.71948E-45	Aoah
0.085312639	12.35088069	4.8181E-35	1.74899E-33	Carmil1
0.264223325	9.764497145	1.599E-22	3.33559E-21	Serpinb9b
0.095551372	10.97800423	4.8758E-28	1.33331E-26	Ripk1
0.094426714	12.31318859	7.6923E-35	2.76613E-33	Pxdc1
0.1790723	10.44960771	1.4713E-25	3.61445E-24	Ly86
0.273977092	6.090257917	1.1273E-09	9.68321E-09	Sema4d
0.107673267	33.79781367	2.124E-250	2.9983E-247	Gadd45g
0.121168945	10.70641203	9.4972E-27	2.46632E-25	Cxcl14
0.474883826	2.763971193	0.00571026	0.017190159	Slc6a19
0.163801871	7.72195296	1.1456E-14	1.51539E-13	Glrx
1.635099858	3.573563308	0.00035216	0.00138437	Slc6a18
0.320166036	11.77942721	4.9831E-32	1.58196E-30	Vcan
0.177709466	11.25843529	2.1046E-29	6.04482E-28	Cd180
0.391173807	4.067123205	4.7597E-05	0.000218637	Naip1
0.173997971	8.729625248	2.5552E-18	4.27873E-17	Dhfr
0.161717915	24.62564601	6.712E-134	2.0938E-131	Fam107a
0.473867768	6.575322682	4.8548E-11	4.76525E-10	Ddx4
0.199102319	8.30510753	9.9729E-17	1.50553E-15	Fst
0.111914964	14.93819282	1.8595E-50	1.05684E-48	Plau
0.131805351	22.5430634	1.571E-112	3.4822E-110	Gm49342
0.062142254	18.4580436	4.4932E-76	4.4976E-74	Arf4
0.284624478	7.813969957	5.5414E-15	7.48135E-14	Gpr65
0.102351434	10.37250858	3.3073E-25	7.98566E-24	Spryd7
0.117334053	11.30194112	1.2835E-29	3.72629E-28	Ctsb
0.635325328	3.799101459	0.00014522	0.000613016	Lrrc63
0.191807126	14.76980121	2.2939E-49	1.2584E-47	Epsti1
0.10239803	25.51659397	1.29E-143	4.5538E-141	Rgcc
0.533109153	7.363508272	1.7914E-13	2.15079E-12	Olfm4
0.095383245	15.36577242	2.7771E-53	1.7245E-51	Ccdc25
0.157909136	22.614253	3.138E-113	7.0739E-111	Slc39a14
0.501327182	17.49506397	1.5624E-68	1.34766E-66	Acod1
0.079541224	21.89532634	2.878E-106	5.2887E-104	Osmr
0.166379	6.257466619	3.9128E-10	3.52114E-09	Fyb
0.212542737	15.30035821	7.6037E-53	4.69993E-51	Slc7a8
0.078377422	24.14809664	7.818E-129	2.2313E-126	Psme1
0.481240602	3.877525343	0.00010552	0.000456595	Tgm1
0.140957491	8.437850507	3.2323E-17	5.07069E-16	Ripk3
0.903263999	2.801560644	0.00508561	0.015485417	Skor1
0.110851301	25.72850832	5.609E-146	2.0335E-143	Myc
0.143206137	10.84591883	2.0853E-27	5.54963E-26	Sla
0.129322816	9.848093707	6.9856E-23	1.49082E-21	Cyrib
1.624646398	2.95372856	0.0031396	0.010013425	Smc1b

0.083781042	12.56675879	3.2164E-36	1.20676E-34	Rapgef3
0.121764629	17.14733875	6.5797E-66	5.53317E-64	Litaf
1.322673286	5.760408629	8.3911E-09	6.54356E-08	Prm1
0.227338547	16.49087816	4.267E-61	3.1885E-59	Mefv
0.164661402	32.9288038	8.509E-238	9.511E-235	Apod
0.097340385	16.02847603	8.0841E-58	5.49023E-56	Grina
0.101697373	16.03124999	7.7312E-58	5.26388E-56	Gsdmd
0.830978217	6.405888625	1.495E-10	1.40616E-09	Ly6g
0.155467021	27.49727584	1.892E-166	1.0153E-163	Ly6c2
0.295342978	17.51198394	1.1608E-68	1.00773E-66	Ly6i
0.075262914	23.14443739	1.654E-118	4.0335E-116	Ly6e
0.339833234	7.355475789	1.9025E-13	2.27738E-12	Arc
0.265412976	5.831690826	5.4869E-09	4.37676E-08	Acr
1.653976481	2.897069917	0.00376666	0.011800113	Retnlb
0.34459519	5.100479256	3.3879E-07	2.16806E-06	Retnlg
0.069025535	15.4767584	4.9794E-54	3.12827E-52	Cd200
0.900292088	4.193042517	2.7524E-05	0.000131778	Adgrg7
0.220337124	5.825495908	5.6943E-09	4.52879E-08	Serpind1
0.139671628	8.854614187	8.3974E-19	1.44857E-17	Popdc2
0.625967534	3.753431734	0.00017443	0.00072603	Muc13
0.152308257	9.567230251	1.0981E-21	2.20983E-20	Hcls1
0.082461958	18.21028462	4.2772E-74	4.15723E-72	Usp25
0.210845314	5.512589256	3.5359E-08	2.55604E-07	Samsn1
0.257429936	4.508213947	6.5376E-06	3.4632E-05	Masp1
0.197765951	12.32786684	6.4122E-35	2.31512E-33	Cd86
0.114813893	26.52786132	4.625E-155	2.0013E-152	Parp9
0.423487327	6.128545452	8.8686E-10	7.69152E-09	Fam3b
0.151104196	8.492553464	2.0215E-17	3.22208E-16	Rcan1
1.60494239	3.982029041	6.8329E-05	0.000305858	Krt75
0.232657031	12.34874334	4.9478E-35	1.79365E-33	Soat2
0.164740644	21.88856143	3.339E-106	6.0931E-104	Cdkn1a
0.853801993	4.364809098	1.2723E-05	6.43267E-05	Cxcl13
0.179864033	11.78753832	4.5258E-32	1.4419E-30	Noct
0.441101789	2.522667654	0.01164684	0.032230057	Gzma
0.437211622	3.030159735	0.00244424	0.008020709	Tmem52
0.07859529	12.82152163	1.2424E-37	4.91565E-36	Vwa5a
0.165412301	11.82957518	2.7453E-32	8.86219E-31	Il15ra
0.065080085	20.00769643	4.7196E-89	6.23685E-87	Serping1
0.124591842	8.77886461	1.6513E-18	2.80371E-17	Kcnk5
0.059514823	27.98548153	2.441E-172	1.3641E-169	Parp3
0.079551676	22.1985793	3.545E-109	7.204E-107	Marchf5
0.15060904	33.17344599	2.601E-241	3.0334E-238	Mx2
1.057930943	3.348229869	0.0008133	0.002958701	Gnb3
0.301212563	6.187221521	6.1234E-10	5.40171E-09	Celsr3
0.501673765	2.475413698	0.01330819	0.036281053	Prph
0.509866416	3.468747377	0.00052289	0.001981505	Hes7
0.284576876	4.544366175	5.5101E-06	2.95804E-05	Pde10a
0.270490105	10.95860607	6.0423E-28	1.64198E-26	Mmp25
0.163943289	18.1374385	1.6138E-73	1.56287E-71	Tnfrsf12a
0.308060098	9.637356652	5.5601E-22	1.1334E-20	Pla2g7
0.12560629	15.74997831	6.8705E-56	4.43047E-54	Nfkbie
0.075689026	18.12637081	1.9736E-73	1.89765E-71	Enpp4

0.115998896	20.6480327	1.0168E-94	1.53235E-92	Pim1
0.084031058	15.23526522	2.0629E-52	1.23524E-50	Cmtr1
0.063161402	16.07590758	3.7644E-58	2.59598E-56	Lpin2
0.146156378	9.345188511	9.1726E-21	1.76011E-19	Emilin2
0.09354963	30.0841874	7.802E-199	5.8138E-196	Xdh
0.142564237	18.69093349	5.8677E-78	6.19715E-76	Eif2ak2
0.378655615	3.089787108	0.002003	0.006716437	Cyp1b1
0.090163845	11.26004572	2.0665E-29	5.94173E-28	Vapa
0.28458463	5.569677118	2.5521E-08	1.87519E-07	Cacna1h
1.711867926	2.632867468	0.00846674	0.024417191	Six2
0.156736239	9.579350682	9.7657E-22	1.96973E-20	C3
0.141383485	13.7926915	2.8204E-43	1.29776E-41	Dusp1
0.203658844	6.40017355	1.552E-10	1.45574E-09	Ip6k3
0.24284266	16.82506586	1.5988E-63	1.2765E-61	Fkbp5
0.156613343	13.1170046	2.6313E-39	1.091E-37	Map3k8
0.095403204	21.9944778	3.253E-107	6.1016E-105	Tapbp
0.122665032	20.55093087	7.5501E-94	1.09481E-91	Psmb8
0.096538051	20.63731179	1.2693E-94	1.90223E-92	Tap2
0.114931944	16.6096094	5.9379E-62	4.52525E-60	Sting1
1.368406974	3.356878833	0.00078828	0.002877048	Cyp21a1
0.091588088	23.99121119	3.435E-127	9.4995E-125	C2
0.257856647	12.36364359	4.1109E-35	1.4943E-33	Aif1
0.259786406	20.11697065	5.2414E-90	7.03032E-88	Tnf
1.660300385	2.681215724	0.00733552	0.02151571	Pou5f1
0.168503273	7.029890391	2.067E-12	2.27247E-11	Ttc39c
0.162640264	10.29923949	7.1021E-25	1.6905E-23	Spry4
0.530226765	3.994135599	6.4931E-05	0.000291764	Cabyr
0.067501827	16.13037735	1.5606E-58	1.09025E-56	Trim26
0.114390887	13.89942793	6.385E-44	3.00497E-42	Dcp2
0.110178296	13.4002019	6.0299E-41	2.61321E-39	Hbegf
0.118616072	13.81570633	2.0493E-43	9.51136E-42	Pmaip1
0.111749621	21.83609305	1.054E-105	1.8723E-103	Lox
0.10870449	9.978723449	1.8888E-23	4.16688E-22	Ptpn2
0.088032138	14.54373108	6.4007E-48	3.41361E-46	Mbd1
0.137236551	11.27177292	1.8089E-29	5.21221E-28	Psat1
0.077155104	13.52101608	1.1754E-41	5.19465E-40	Cndp2
0.081874121	16.74297515	6.3722E-63	4.99827E-61	Anxa1
0.1040124	12.15525676	5.3793E-34	1.87164E-32	Fth1
0.264714486	6.809272385	9.8094E-12	1.02034E-10	Ms4a7
0.306416168	14.88388207	4.1944E-50	2.36881E-48	Ms4a4c
0.254561567	10.55504188	4.8142E-26	1.21038E-24	Ms4a6b
0.117691254	19.34605367	2.2006E-83	2.57788E-81	Ms4a4d
0.200177085	24.51353451	1.06E-132	3.23E-130	Ms4a6d
0.168550377	12.13315878	7.0477E-34	2.43952E-32	Lpxn
0.145102224	15.03185238	4.5413E-51	2.63688E-49	Ms4a8a
0.159950237	9.633853762	5.753E-22	1.17184E-20	Ccdc86
0.284350307	10.15033869	3.3022E-24	7.61682E-23	Slc15a3
0.08950343	14.79375612	1.6073E-49	8.89009E-48	Fas
0.734674392	2.667119935	0.00765044	0.022331949	Gpha2
0.379810334	8.887689636	6.2393E-19	1.08263E-17	Majin
0.098269936	11.48723771	1.5292E-30	4.58874E-29	Jak2
0.409114693	8.278373689	1.2487E-16	1.8745E-15	Htr7

0.089038526	30.99680399	5.953E-211	5.7029E-208	Ankrd1
0.099614818	14.83753535	8.3778E-50	4.68214E-48	Pcgf5
1.468904538	4.65447117	3.2481E-06	1.80739E-05	Trpd52l3
0.494697869	5.866470577	4.4517E-09	3.58837E-08	Gldc
0.606802059	6.012726564	1.8243E-09	1.53172E-08	Cabp4
0.462007975	2.589074438	0.00962343	0.02731437	Cnih2
0.17641376	6.061443936	1.349E-09	1.15107E-08	Rin1
0.422603384	10.7591958	5.3636E-27	1.40649E-25	Fosl1
0.134447184	9.687811867	3.3973E-22	6.98893E-21	Prdx5
0.669034497	2.718023214	0.00656732	0.019503488	Tectb
0.251176093	8.064912629	7.3288E-16	1.06215E-14	Pik3ap1
0.173341963	22.80931897	3.706E-115	8.57E-113	Msr1
0.264991318	6.48168823	9.0702E-11	8.6775E-10	Tasl
0.390574836	3.309432029	0.00093485	0.003359916	Bhlhe22
0.533078997	14.66709572	1.0473E-48	5.7338E-47	Sectm1a
0.168972761	6.05688921	1.3878E-09	1.18074E-08	Ubtd1
0.82017798	3.444353117	0.00057243	0.002147684	Ankrd2
0.154369451	7.390090525	1.4673E-13	1.77785E-12	Cutc
0.674839873	3.551017809	0.00038374	0.001497575	Abcc2
0.108755986	12.57633005	2.8496E-36	1.07366E-34	Nfkb2
1.385101133	2.405378632	0.01615572	0.042905977	Pitx3
0.430765955	2.464008571	0.01373928	0.037282014	Slc6a20b
0.523835716	6.023914666	1.7025E-09	1.43303E-08	Dnase1l3
0.078381024	17.87561097	1.8266E-71	1.67812E-69	Sat1
0.110613839	15.23352486	2.1185E-52	1.26575E-50	Atp10a
0.080219645	14.01007265	1.3527E-44	6.50297E-43	Cd63
0.107636005	14.56348352	4.7951E-48	2.56752E-46	Mmp19
0.08350991	12.9881672	1.4281E-38	5.80442E-37	Baiap2
0.695008304	3.342359134	0.0008307	0.003016681	Myo1a
0.147451478	8.552296767	1.2066E-17	1.94643E-16	Ddit3
0.197588577	6.475718436	9.4362E-11	9.01158E-10	Pstpip2
0.141340747	10.52022657	6.9706E-26	1.72981E-24	Adam8
0.304570543	7.708254985	1.2755E-14	1.6814E-13	Ifitm5
0.154430074	9.521697772	1.7037E-21	3.39051E-20	Ifitm1
0.091526077	30.48708179	3.866E-204	3.1424E-201	Ifitm3
0.862596545	2.740915587	0.00612682	0.018321056	Cdhr5
0.157716624	37.19528257	8.134E-303	1.8184E-299	Irf7
0.10448102	10.58704616	3.4222E-26	8.66894E-25	Pnpla2
0.239163675	8.481927115	2.2149E-17	3.5242E-16	Rbfox3
0.141956327	18.31180257	6.6627E-75	6.54704E-73	Atrip
0.075397864	18.40611751	1.1734E-75	1.16583E-73	Shisa5
0.09647972	17.16247516	5.0706E-66	4.27747E-64	Sdc3
0.295173104	26.99843601	1.542E-160	7.3854E-158	Il6
0.167473947	19.32919982	3.0511E-83	3.54328E-81	Ccr1
0.209282788	16.88524793	5.7773E-64	4.66814E-62	Hk3
0.083143537	14.91929875	2.4685E-50	1.40002E-48	Casp12
0.188727142	8.623721271	6.4813E-18	1.06275E-16	Casp1
0.204462398	5.954362857	2.6109E-09	2.15704E-08	Ctla4
0.098742722	10.88866631	1.3054E-27	3.48786E-26	Casp8
0.113441721	10.31293745	6.159E-25	1.47124E-23	Cflar
0.141145061	10.27559943	9.0778E-25	2.14179E-23	Il18rap
0.564098414	8.340966661	7.3686E-17	1.12248E-15	Il1r2

0.084667539	27.08548225	1.46E-161	7.3894E-159	Mitd1
0.099922179	11.38994026	4.6931E-30	1.38654E-28	Inpp1
0.140378512	21.18146977	1.415E-99	2.28743E-97	Stat1
0.134327485	12.9772653	1.6466E-38	6.64217E-37	Sema4c
0.11476426	12.51611495	6.0946E-36	2.27391E-34	Ogfrl1
0.51280006	14.58802581	3.3474E-48	1.80681E-46	Ccl20
0.307087768	6.912089346	4.7757E-12	5.0919E-11	Slc11a1
0.188408888	14.89795694	3.3981E-50	1.92316E-48	Cxcr2
0.103567025	22.48437989	5.902E-112	1.2872E-109	Sp100
0.215321635	12.62433175	1.5505E-36	5.91668E-35	Gpr35
0.326301138	8.345450461	7.0943E-17	1.08316E-15	Pdcd1
0.10536308	9.81527853	9.677E-23	2.0489E-21	Tnfrsf11a
0.627175708	3.596789291	0.00032217	0.001274331	Htr4
0.18301801	15.26245496	1.3603E-52	8.27485E-51	Rgs1
0.088713816	11.38319693	5.0706E-30	1.49477E-28	Tnnt2
0.239851826	5.136966447	2.7921E-07	1.80963E-06	Fcamr
0.125928294	9.219881	2.9743E-20	5.54473E-19	Pigr
1.756347855	2.790332861	0.00526539	0.015967589	Il24
0.456568827	2.684684475	0.00725983	0.021321679	Nfasc
0.086615268	21.01656952	4.6269E-98	7.34446E-96	Tor1aip1
2.035622464	2.46101092	0.01385461	0.037549394	Lhx4
0.082960046	13.93534084	3.8635E-44	1.82791E-42	Glul
0.238990451	14.99928066	7.4219E-51	4.25429E-49	Rgs16
0.160877767	7.276244105	3.4324E-13	4.04029E-12	Ncf2
0.625064487	2.614579141	0.00893375	0.025566105	Ifi202b
0.269848449	20.77921521	6.6741E-96	1.0349E-93	Ifi211
0.194437638	10.37535124	3.2103E-25	7.7655E-24	Slamf9
0.558497237	4.325280172	1.5234E-05	7.6016E-05	Xcl1
0.215271975	15.88128709	8.5408E-57	5.67116E-55	Selp
0.176994888	8.477589921	2.2991E-17	3.65155E-16	Sell
0.260959133	12.00540325	3.3284E-33	1.11888E-31	Sele
1.003227927	2.909984285	0.00361447	0.011364481	Tex35
1.995663455	2.614772501	0.00892869	0.025554364	Slc30a10
0.136542542	7.988259775	1.3686E-15	1.93942E-14	Mark1
0.297287079	10.92772089	8.4955E-28	2.28587E-26	Atf3
0.243233681	5.351726902	8.7119E-08	6.00321E-07	Plxna2
0.182172315	9.57484574	1.0201E-21	2.05598E-20	Fcgr2b
0.275587178	4.749469252	2.0395E-06	1.16956E-05	Mcm10
1.415679196	2.535700324	0.01122227	0.031222638	Tnfsf4
1.790887726	3.023827546	0.00249599	0.008165529	Nr5a1
0.286854076	5.066857755	4.0444E-07	2.55701E-06	Kif5c
0.21318833	10.15189095	3.25E-24	7.50307E-23	Il2ra
0.114579938	13.84676555	1.3307E-43	6.21907E-42	Pfkfb3
0.16706731	8.76707614	1.8337E-18	3.10149E-17	Slc25a25
0.145365571	28.91189399	8.462E-184	5.4049E-181	Lcn2
0.414552751	4.72504968	2.3006E-06	1.30948E-05	Acvr1c
1.995018399	2.398820048	0.016448	0.04356145	Fcnb
0.161764906	9.589827471	8.8232E-22	1.78098E-20	Lamc3
0.088524083	12.59777753	2.1718E-36	8.25215E-35	Hspa5
0.173790655	6.08191684	1.1875E-09	1.0178E-08	Lhx6
0.133042748	8.891123753	6.0494E-19	1.05036E-17	Gca
0.136067473	23.60289471	3.599E-123	9.2837E-121	Ifih1

0.116462475	21.39966642	1.346E-101	2.2562E-99	Nmi
0.339083916	14.33651854	1.2939E-46	6.53651E-45	Il1rn
0.096017625	13.66708817	1.5966E-42	7.22254E-41	Cers6
0.282220734	6.745154413	1.5286E-11	1.55922E-10	Dhrs9
0.112263707	12.05329133	1.8636E-33	6.35224E-32	Slc43a3
0.122054652	24.14073663	9.342E-129	2.6104E-126	Ube2l6
0.234003653	7.882330374	3.2133E-15	4.41826E-14	Gatm
0.214657085	11.51387567	1.1231E-30	3.40063E-29	Slc28a2
0.766334213	5.111410072	3.1976E-07	2.05264E-06	Duoxa2
1.243485216	7.627622869	2.3912E-14	3.08695E-13	Terb2
0.097429222	14.9500782	1.5557E-50	8.86035E-49	Creb3l1
0.324524294	3.641263153	0.0002713	0.001088054	Ppp1r14d
0.154537606	19.87871404	6.2208E-88	7.94661E-86	Siglec1
0.160357882	9.862932352	6.0263E-23	1.29226E-21	Smox
0.400150169	2.612849282	0.00897909	0.025680952	Prnd
0.105101655	14.79620158	1.5499E-49	8.5905E-48	Sppl2a
0.178183947	16.59442127	7.6477E-62	5.81185E-60	Dusp2
0.154384498	14.85479291	6.4768E-50	3.63485E-48	Il1b
0.16344741	12.5769145	2.8286E-36	1.06724E-34	Il1a
0.870499434	4.22249289	2.4162E-05	0.00011668	Pdyn
0.07474994	14.41049193	4.4453E-47	2.29328E-45	Rrbp1
0.24048763	4.85599178	1.1979E-06	7.11868E-06	Gins1
0.296301458	4.144944665	3.399E-05	0.000160529	Sdcbp2
0.172324994	30.37651645	1.122E-202	8.601E-200	Zbp1
0.105713642	9.79648967	1.1657E-22	2.45448E-21	Ptpn1
0.183252784	14.83095418	9.241E-50	5.15383E-48	Car13
0.278967699	8.752475294	2.0872E-18	3.5193E-17	Col9a3
0.107744365	22.38011536	6.149E-111	1.2886E-108	Helz2
0.235349612	6.38275547	1.7393E-10	1.62629E-09	Procr
0.088480098	12.27960386	1.1657E-34	4.16384E-33	Eif6
0.109089241	20.56311039	5.8744E-94	8.6586E-92	Samhd1
0.078539011	13.4081178	5.4197E-41	2.35257E-39	Rbl1
0.161808644	10.7935408	3.6928E-27	9.75996E-26	Ccn5
0.109652686	10.22507618	1.5311E-24	3.57775E-23	Gnb4
0.515696404	8.418956117	3.7985E-17	5.91751E-16	Ocstamp
0.330465324	7.159077983	8.1221E-13	9.25201E-12	Slc7a11
0.329826115	3.751662799	0.00017567	0.000730832	Kcnab1
0.623445715	10.93692894	7.6756E-28	2.0694E-26	Ptx3
0.16720492	6.941952866	3.8672E-12	4.16796E-11	Ptpn22
0.082930873	12.26286752	1.4334E-34	5.10643E-33	S100a11
0.092127407	23.80418788	3.022E-125	8.0276E-123	Adar
0.383606208	2.928327099	0.00340791	0.010774388	Pmvk
0.166557503	15.40295868	1.5635E-53	9.77672E-52	Tlr2
0.556898716	8.042853383	8.777E-16	1.2618E-14	Fga
0.464391791	5.048496226	4.453E-07	2.79692E-06	Tdo2
0.128011102	9.204704807	3.4261E-20	6.36489E-19	Alpk1
0.10912248	43.51833657	0	0	Ifi44
0.161446148	7.979998577	1.4633E-15	2.06827E-14	Sh2d2a
0.118129754	9.055574145	1.3585E-19	2.45245E-18	Bcar3
0.137483111	16.93586575	2.4473E-64	2.00157E-62	F3
0.251475454	3.996852071	6.419E-05	0.000288582	Ccn1
0.141435972	11.9663438	5.3327E-33	1.7683E-31	Gem

0.090373691	11.83340367	2.6229E-32	8.47721E-31	Sdcbp
0.419388592	12.08174152	1.319E-33	4.54204E-32	Clca3a2
0.066588107	15.2413087	1.8807E-52	1.13117E-50	Lmo4
0.170865739	22.41477168	2.825E-111	6.0143E-109	Gbp3
0.243671078	16.62424388	4.652E-62	3.57576E-60	Gbp2
0.249310444	16.78761031	3.0071E-63	2.38665E-61	Stra6l
0.115897471	15.48557182	4.3418E-54	2.73414E-52	Coro2a
0.179909113	10.97349556	5.1252E-28	1.40008E-26	Nr4a3
1.632903771	2.750700451	0.0059468	0.017840399	Ambp
0.29227258	5.575971968	2.4615E-08	1.81159E-07	Orm3
0.235974602	8.276341307	1.2702E-16	1.90569E-15	Tnfsf8
0.30359244	4.054988401	5.0137E-05	0.0002294	Tnc
0.079820496	13.56122098	6.7995E-42	3.02492E-40	Txn1
0.260606237	4.849867776	1.2354E-06	7.32093E-06	Pappa
0.199180915	8.751495276	2.1054E-18	3.54555E-17	Cd72
0.148641256	14.97406406	1.0848E-50	6.19191E-49	Glipr2
0.113795499	16.44342455	9.3484E-61	6.9661E-59	Plin2
0.072234187	20.00192055	5.2992E-89	6.96845E-87	Pdpn
0.265907401	6.380443538	1.7658E-10	1.64989E-09	Tnfrsf1b
0.406750079	3.368004288	0.00075714	0.002773232	Tnfrsf8
0.262146907	6.836150865	8.1349E-12	8.52451E-11	Lrp8
0.083479543	30.39793579	5.849E-203	4.6149E-200	Ctps
0.111142284	9.225700635	2.8171E-20	5.2627E-19	Slc2a1
0.15179998	13.79567859	2.7059E-43	1.24725E-41	Plk3
0.185060323	22.05314364	8.911E-108	1.7198E-105	Alpl
0.152719149	17.06769553	2.5819E-65	2.15101E-63	Tinagl1
1.096424251	4.003727735	6.2352E-05	0.000281042	Hcrtr1
0.832558718	5.258244609	1.4544E-07	9.76838E-07	Hpca
0.130800154	15.89352995	7.0257E-57	4.68836E-55	Rnf19b
0.342847289	7.220103273	5.1948E-13	6.0171E-12	A3galt2
0.06131609	20.5612077	6.1093E-94	8.95569E-92	Phc2
0.09685831	11.43571076	2.7726E-30	8.24578E-29	Cnksr1
0.137435134	15.01729292	5.6571E-51	3.27771E-49	Csf3r
0.110583006	27.07510114	1.935E-161	9.4358E-159	Map3k6
0.447296386	3.116997387	0.00182703	0.006187597	Cd164l2
0.140996713	12.0048289	3.3516E-33	1.12395E-31	Fgr
0.131945689	8.956636735	3.3473E-19	5.88821E-18	Yrdc
0.091119705	11.57274303	5.6642E-31	1.72669E-29	Epb41
0.192247245	19.23294858	1.9615E-82	2.24871E-80	Tnfrsf9
0.155016735	15.23616603	2.0346E-52	1.22106E-50	Errfi1
0.118790199	10.14927805	3.3382E-24	7.69343E-23	Mad2l2
0.080457831	16.75532974	5.1773E-63	4.08489E-61	Mthfr
1.062954051	3.831998301	0.00012711	0.00054149	Nppb
0.292544495	4.021376071	5.7859E-05	0.00026214	Tnfrsf4
0.164295676	10.59402464	3.1763E-26	8.07666E-25	Bst1
0.127245524	12.19950923	3.127E-34	1.09654E-32	Fosl2
1.015968873	5.624163879	1.8641E-08	1.39124E-07	Gnrhr
0.366459597	3.280556315	0.00103603	0.003686976	Gfi1
0.176366241	13.41681358	4.82E-41	2.09563E-39	Gbp9
0.300251292	7.547808941	4.4264E-14	5.58791E-13	Spp1
0.092138926	23.14141914	1.774E-118	4.2869E-116	Slc10a6
0.326137107	11.04164647	2.4058E-28	6.67415E-27	Plac8

0.17789562	12.49772074	7.6822E-36	2.85435E-34	Dck
0.302293832	18.92096428	7.6639E-80	8.42594E-78	Cxcl5
0.613362824	5.173270828	2.3003E-07	1.50655E-06	Ereg
0.239992165	13.02108401	9.2843E-39	3.80247E-37	Areg
0.749563491	6.835888151	8.1499E-12	8.53682E-11	Cxcl3
0.567199835	13.16728703	1.3538E-39	5.67434E-38	Cxcl1
0.063071752	16.13182724	1.5244E-58	1.07053E-56	G3bp2
1.418069512	3.611539303	0.00030438	0.001209514	U90926
0.101546589	11.27592	1.7257E-29	4.97767E-28	Sdad1
0.515496006	13.3848364	7.416E-41	3.19844E-39	Cxcl9
1.683174248	3.510171055	0.00044782	0.001722715	Il31
0.106948892	9.910794002	3.7366E-23	8.10342E-22	Rnf34
0.079916568	15.28368822	9.8221E-53	6.01569E-51	Anxa3
0.161146564	6.714015287	1.8934E-11	1.91887E-10	Mfsd7a
1.695925428	2.958174675	0.00309467	0.009888927	Pde6b
0.212792742	5.402747892	6.5628E-08	4.5859E-07	Tfec
0.112625584	36.56594429	9.951E-293	2.0534E-289	Oasl2
0.111840051	28.60023907	6.673E-180	4.0683E-177	Oas1b
0.156846791	6.962068666	3.3531E-12	3.62998E-11	Eln
1.457363507	2.791788656	0.00524176	0.015904921	Fscn3
0.184436825	6.516725414	7.1859E-11	6.95413E-10	Asns
0.147770281	13.94006933	3.6159E-44	1.71378E-42	Irf5
0.097539227	11.82485372	2.9041E-32	9.36357E-31	Gars
0.130560287	22.49826873	4.316E-112	9.4898E-110	Nt5c3
0.143209832	27.43941356	9.294E-166	4.8884E-163	Herc6
0.150820874	9.128947317	6.9169E-20	1.2683E-18	Gpnmb
0.355675435	3.783666936	0.00015453	0.000648552	Gsdme
0.087966593	19.36577096	1.5009E-83	1.76594E-81	Zc3hav1
1.144695775	2.808675925	0.00497457	0.01518523	Stra8
0.220656472	5.795486965	6.8123E-09	5.35759E-08	Ccdc184
0.239499379	10.23716266	1.3514E-24	3.16897E-23	Clec5a
1.284054886	5.022170078	5.1091E-07	3.18959E-06	Prok2
0.100883631	12.97026422	1.8041E-38	7.25579E-37	Klf15
0.126194364	38.07640412	0	0	Usp18
0.572172209	3.258359076	0.00112059	0.003967377	Slc6a12
0.311632052	5.081234713	3.7499E-07	2.38432E-06	A2m
0.777974062	4.109743822	3.961E-05	0.000184539	Gdf3
0.196055528	15.62964584	4.5734E-55	2.93506E-53	Lag3
0.118896801	11.39440811	4.4585E-30	1.32013E-28	Tuba8
0.357126539	10.32684802	5.3283E-25	1.27736E-23	Clec4e
0.220878232	15.7734383	4.7398E-56	3.07867E-54	Clec4d
0.188594598	6.235688996	4.4979E-10	4.0167E-09	Clec4a2
0.241767612	7.801930113	6.0967E-15	8.19805E-14	Klrk1
0.163624658	17.85383608	2.6985E-71	2.45388E-69	Cd69
0.223775585	10.92166807	9.0812E-28	2.43857E-26	Klra2
0.082818817	14.4001244	5.165E-47	2.65945E-45	Etv6
0.262302847	4.802498388	1.567E-06	9.1441E-06	Ptpro
0.571653818	2.423954373	0.01535253	0.041036975	Slco1c1
0.835639862	2.914317354	0.00356467	0.01121975	Cpne9
0.236029792	4.414215628	1.0138E-05	5.21684E-05	Timp4
0.050441029	20.52424376	1.3078E-93	1.87613E-91	Tnfrsf1a
0.176915216	7.462961974	8.4599E-14	1.04583E-12	Prmt8

0.154076353	7.529783316	5.0825E-14	6.38604E-13	Pglyrp1
0.176858525	7.806991229	5.8569E-15	7.89538E-14	Lilra6
0.188275581	7.548520834	4.4023E-14	5.56007E-13	Siglece
0.439263869	3.926507865	8.6188E-05	0.000379278	Chrna7
1.265696014	7.153210044	8.4772E-13	9.63596E-12	Rhcg
0.147897126	9.161613243	5.1127E-20	9.43935E-19	Tyrobp
0.105782643	13.96101899	2.6955E-44	1.28895E-42	Nfkbib
0.121286273	12.97458245	1.7052E-38	6.86855E-37	Gm45837
0.263698001	8.499495331	1.9042E-17	3.04599E-16	Calca
0.065481822	21.24464475	3.695E-100	6.04381E-98	Mvp
0.118648214	14.42768827	3.465E-47	1.79792E-45	Sult1a1
0.173717856	6.535988133	6.3191E-11	6.14634E-10	Nupr1
0.159060065	6.861200186	6.8284E-12	7.20046E-11	Il21r
0.08582746	17.86124719	2.363E-71	2.15611E-69	Il4ra
0.152166313	11.79950859	3.926E-32	1.25828E-30	Itgam
0.118457378	15.57538162	1.0701E-54	6.83504E-53	Lyve1
0.20871714	20.80750331	3.7012E-96	5.77266E-94	Adm
0.171164871	5.876929811	4.1795E-09	3.3801E-08	Pycard
0.359336548	3.894090788	9.8568E-05	0.000428415	Hsd17b14
0.249659205	8.854550041	8.4022E-19	1.44857E-17	Hpx
0.132445716	26.5024329	9.086E-155	3.869E-152	Trim30a
0.078823926	14.09122945	4.3001E-45	2.11272E-43	Chst15
0.119133351	19.95857408	1.2626E-88	1.63631E-86	Trim21
0.292723241	3.518721065	0.00043363	0.001674481	Art1
0.54997254	4.088915638	4.3339E-05	0.000200695	Trim66
0.094076139	12.0134655	3.0192E-33	1.01879E-31	Slc6a14
0.707967418	4.424368976	9.6725E-06	4.98987E-05	Syt8
0.099692968	12.58118358	2.6798E-36	1.01396E-34	Rbm3
0.156805773	11.79903604	3.9481E-32	1.26386E-30	Gla
1.360975839	2.795080221	0.00518868	0.015760141	Il13ra2
0.123341912	9.106437163	8.5132E-20	1.55357E-18	Il2rg
0.088623747	19.48840668	1.377E-84	1.67149E-82	Tsc22d3
0.222865968	11.64830672	2.3406E-31	7.25894E-30	F10
0.21992696	4.923025534	8.5216E-07	5.17549E-06	Proz
1.353294416	2.465037967	0.01369987	0.037193888	Grk1
0.133846342	10.46885718	1.2008E-25	2.9581E-24	Col4a1
0.125735505	9.415443425	4.7109E-21	9.21097E-20	Col4a2
0.169137248	14.06812787	5.9627E-45	2.90301E-43	Rab20
0.179450233	11.30518783	1.2369E-29	3.59879E-28	Plat
0.112650194	21.84006977	9.661E-106	1.7277E-103	Sfrp1
0.471436711	9.312078435	1.2535E-20	2.38833E-19	Ido1
0.395706553	2.572714989	0.01009043	0.028466272	Dctd
0.084364916	12.98088054	1.5706E-38	6.3455E-37	Gsr
0.553824695	3.727066079	0.00019372	0.00080049	Fgl1
0.103381538	11.98882401	4.0664E-33	1.36016E-31	Klhl2
0.153793576	14.41137302	4.389E-47	2.26857E-45	Sap30
0.715481749	2.842847496	0.00447125	0.013775772	Scrg1
0.082380238	12.66222365	9.5748E-37	3.66411E-35	Irf2
0.129251685	8.478124404	2.2885E-17	3.63698E-16	Casp3
0.095131012	23.91453709	2.162E-126	5.8005E-124	Tlr3
0.126779978	10.59900131	3.0118E-26	7.68007E-25	N4bp1
0.187226451	9.345364565	9.1573E-21	1.75845E-19	Snx20

0.181075848	8.069158191	7.0785E-16	1.02641E-14	Il15
0.339345299	15.37994665	2.2313E-53	1.3888E-51	Mt2
0.149802577	23.51878373	2.621E-122	6.6321E-120	Mt1
0.114448066	15.80304344	2.9645E-56	1.93966E-54	Ccl22
0.197059092	8.930540262	4.2393E-19	7.39911E-18	Ccl17
0.130990408	9.934462605	2.9476E-23	6.42867E-22	Usb1
0.074491597	14.43622334	3.0616E-47	1.59479E-45	B3gnt3
0.611003249	2.358330473	0.01835734	0.047932068	Necab2
0.730392871	4.876203677	1.0815E-06	6.47145E-06	Bean1
0.241871147	7.653551197	1.955E-14	2.53852E-13	Hsd11b2
0.348602514	6.834043762	8.2554E-12	8.64061E-11	Ctrl
0.094231608	25.23950713	1.477E-140	4.9516E-138	Psmb10
0.092542012	11.04114632	2.4193E-28	6.70447E-27	Slc7a6
0.376990475	2.682696906	0.00730311	0.021439412	Smpd3
0.61421819	2.695181411	0.00703503	0.020747775	Gpr83
0.07328759	14.08991716	4.3808E-45	2.14449E-43	Aars
0.122139981	10.23951902	1.3189E-24	3.09544E-23	Bmper
0.476731074	3.140953872	0.00168399	0.005759957	Agt
0.113339206	16.57117461	1.126E-61	8.50909E-60	Birc3
0.389345055	3.529520185	0.00041631	0.001612247	Crtam
1.713031087	3.046095684	0.00231834	0.007648727	Apoa1
0.467955633	4.073057909	4.64E-05	0.00021376	Dscaml1
0.155098775	13.15582679	1.5755E-39	6.57302E-38	Il10ra
0.206124086	5.048377663	4.4558E-07	2.798E-06	Slc37a2
0.289530387	13.25465497	4.2406E-40	1.8057E-38	Icam5
0.141098081	15.80705551	2.7817E-56	1.82448E-54	Tent5a
0.152974792	7.225170688	5.0047E-13	5.80445E-12	Nnmt
0.111929733	18.05581741	7.1003E-73	6.70678E-71	Pstpip1
0.212554765	9.205465735	3.4019E-20	6.32433E-19	Cgas
0.081739933	16.3535082	4.1064E-60	2.99345E-58	Ctsh
0.076221842	15.53376581	2.0498E-54	1.30304E-52	Plscr2
0.063593309	20.82873958	2.3763E-96	3.72791E-94	Stt3b
0.430080698	4.426531589	9.576E-06	4.94393E-05	Ngp
0.141275566	11.44905003	2.3774E-30	7.11777E-29	Ptgs2
0.403800458	3.667777519	0.00024467	0.000990711	Tdgf1
0.118134372	15.62548823	4.8817E-55	3.12544E-53	Trib1
0.097717259	22.82007957	2.898E-115	6.7595E-113	Myd88
0.124582244	29.68352209	1.253E-193	9.0857E-191	Csrnp1
0.098491317	12.29140947	1.0073E-34	3.61753E-33	Manf
0.077035646	19.19629543	3.9745E-82	4.537E-80	Cish
0.212501237	8.919411291	4.6877E-19	8.16579E-18	Amigo3
0.095770723	26.7577406	1.004E-157	4.4867E-155	Uba7
2.037758947	2.402253862	0.0162944	0.043214382	Oas1d
0.254236481	21.39003319	1.654E-101	2.7566E-99	Oas3
0.164149679	26.45321355	3.351E-154	1.4046E-151	Oas2
0.155842557	16.21920797	3.6892E-59	2.6321E-57	Nlrp3
0.109659148	12.80950458	1.4506E-37	5.71412E-36	Resf1
0.158289824	11.9881261	4.1008E-33	1.36995E-31	Abtb2
0.205968052	7.300429874	2.8685E-13	3.39437E-12	Pram1
0.143859911	8.35818399	6.3691E-17	9.76329E-16	Mctp2
0.383849835	2.910503247	0.00360847	0.011346955	Alpk2
0.540270387	2.356347789	0.01845563	0.048151207	Klrc3

0.950924595	2.489584233	0.01278926	0.035037246	Tmprss7
0.177337296	8.472279653	2.4064E-17	3.81746E-16	Lpcat2
0.328291895	17.44844373	3.5374E-68	3.03177E-66	AA467197
0.097603545	10.77092238	4.7225E-27	1.24079E-25	Noc4l
0.12436788	26.94021633	7.428E-160	3.4354E-157	Rtp4
0.768997606	3.413544195	0.00064124	0.002381207	Trim69
0.176086753	6.050338304	1.4454E-09	1.22589E-08	Tagap
0.104255947	20.55467724	6.9893E-94	1.019E-91	Adamts15
0.126842864	9.616702047	6.7976E-22	1.37936E-20	Crlf2
0.108709561	12.72494041	4.298E-37	1.66376E-35	Fndc3a
0.123137075	23.69491251	4.069E-124	1.0596E-121	Casp4
0.207630129	20.86259797	1.1713E-96	1.84836E-94	Apol6
0.102347888	18.00293945	1.8475E-72	1.72685E-70	Igf2bp2
0.381769534	5.085945241	3.658E-07	2.32865E-06	Piwil2
0.093990592	14.50699539	1.0941E-47	5.78897E-46	Qsox1
0.091530518	17.0955733	1.6011E-65	1.34225E-63	Ucp2
0.103508217	21.20435275	8.706E-100	1.41544E-97	Akr1c14
0.305801035	9.523934	1.6674E-21	3.32324E-20	Tlr13
0.080747136	18.63129166	1.7915E-77	1.86273E-75	Asb13
0.46950582	6.778224084	1.2166E-11	1.25286E-10	Pla2g4c
0.311029494	4.983008854	6.2603E-07	3.866E-06	Fgg
0.095579354	34.29650432	8.848E-258	1.3186E-254	Lgals3bp
0.077140961	15.20360951	3.3466E-52	1.9862E-50	Pxk
0.214493739	14.63961315	1.5696E-48	8.55808E-47	Rnf225
0.475695932	4.191879608	2.7665E-05	0.000132385	Dnah17
0.152890866	10.12026286	4.4921E-24	1.02995E-22	Vav1
0.209251425	5.78434048	7.2797E-09	5.70845E-08	Batf
0.235644288	4.815844252	1.4658E-06	8.58167E-06	Brip1
0.132648325	8.835707148	9.9467E-19	1.70826E-17	Cpne2
0.1290479	15.01006373	6.3087E-51	3.63951E-49	Lif
0.140144558	21.26543947	2.373E-100	3.90471E-98	Parp14
0.329147842	7.618586587	2.5647E-14	3.29503E-13	Gbp8
0.129416937	42.96019504	0	0	Ifit1
0.081300547	23.19584638	5.015E-119	1.2342E-116	Tent4a
0.129912088	11.4968819	1.3677E-30	4.11314E-29	Ppp1r18
0.133626898	9.651623769	4.8383E-22	9.9079E-21	Tiparp
0.166545193	7.126236243	1.0315E-12	1.16608E-11	Cd300ld
0.1772639	8.701172121	3.2847E-18	5.46967E-17	Cd300a
0.084595146	20.75461331	1.1137E-95	1.69758E-93	Grn
0.519156509	3.757988613	0.00017128	0.000713486	Adgrb1
0.171766386	7.441802127	9.9321E-14	1.22107E-12	Dusp5
0.484625283	3.723941147	0.00019614	0.00080972	Nrip3
0.787441265	2.485487833	0.0129374	0.035399706	Gnat1
0.08652655	15.75436186	6.4103E-56	4.14369E-54	Art3
0.191302922	48.3548151	0	0	Cxcl10
0.11212998	17.59785383	2.5584E-69	2.25759E-67	Arl4d
0.116158386	20.5964225	2.9548E-94	4.37933E-92	Tmem106a
0.222089223	11.73925632	8.0188E-32	2.52777E-30	Hrh2
0.169247952	11.6329608	2.8021E-31	8.64003E-30	Igsf6
1.341890554	4.335297898	1.4556E-05	7.2852E-05	Epgn
1.281206844	3.709173598	0.00020794	0.000854229	Tbr1
0.379941369	7.135199787	9.6647E-13	1.09579E-11	Ccl5

0.558722739	5.219144761	1.7975E-07	1.19475E-06	Gpr33
1.208196633	5.47944456	4.2666E-08	3.05055E-07	Ubd
0.18866406	22.04564382	1.052E-107	2.0153E-105	Slfn8
0.281514487	4.716173833	2.4032E-06	1.36412E-05	Lcat
0.172375021	8.998917501	2.2795E-19	4.0551E-18	Hpse
0.482308472	2.834954186	0.00458323	0.014083719	Mid1
0.332038152	15.05211277	3.3438E-51	1.9458E-49	Ccl12
0.141505701	12.57805361	2.7881E-36	1.05345E-34	Nfkbiz
0.257577682	31.04351181	1.396E-211	1.3867E-208	Ccl7
0.323653318	26.13042577	1.645E-150	6.3047E-148	Ccl2
0.165561283	14.00992719	1.3554E-44	6.50465E-43	Tgfbi
0.146884013	8.411277891	4.0557E-17	6.3071E-16	Cox18
0.105284204	17.99406809	2.1684E-72	2.01976E-70	Tdrd7
0.548617443	10.09689015	5.7022E-24	1.29963E-22	Krt17
0.219491387	14.84902814	7.0585E-50	3.95303E-48	Aldh1b1
0.67274952	4.914409445	8.905E-07	5.38883E-06	L3mbtl1
0.096780333	17.76728312	1.2668E-70	1.14421E-68	Sbno2
0.20375803	5.783414344	7.3199E-09	5.73663E-08	Tnfsf9
0.155458581	40.38069528	0	0	Isg15
0.324674552	7.861750263	3.788E-15	5.18457E-14	Plekhs1
0.098502983	18.53795216	1.0203E-76	1.04074E-74	Pim3
1.98326754	2.581437706	0.00983897	0.027832999	Krt25
0.105724635	30.74316246	1.509E-207	1.306E-204	Misp
0.112074686	20.29081444	1.5501E-91	2.16573E-89	H2-Q4
0.092904511	12.75758815	2.8282E-37	1.10276E-35	Adamtsl2
0.126968959	13.35977223	1.0388E-40	4.47307E-39	Fmnl2
0.194254587	12.69069481	6.6592E-37	2.56668E-35	Slc2a6
0.804863499	5.838833426	5.2568E-09	4.20321E-08	Ccdc38
0.081008624	15.50674935	3.1229E-54	1.97585E-52	Rbm43
0.222010915	7.59678777	3.0357E-14	3.87791E-13	P2ry12
0.256237185	9.630926021	5.9194E-22	1.20389E-20	P2ry13
0.103714147	12.92625082	3.2005E-38	1.27383E-36	P2ry14
0.264949309	11.69739341	1.3143E-31	4.12364E-30	Arsi
0.199338812	5.302401129	1.1429E-07	7.77759E-07	Marchf1
1.925398823	3.092075506	0.00198762	0.006672803	Prss56
1.330352967	3.493749101	0.00047629	0.001825534	Stpg4
0.066728656	17.05158558	3.4018E-65	2.82527E-63	Dennd3
1.293461114	3.132761345	0.0017317	0.005898528	Stpg3
0.149570595	9.732329393	2.1951E-22	4.55415E-21	C1qa
0.161479672	10.22255285	1.5715E-24	3.66895E-23	C1qc
0.186983024	11.2417023	2.5443E-29	7.29198E-28	C1qb
0.117204543	10.52480764	6.6397E-26	1.65075E-24	Unc93b1
0.152404129	7.978308806	1.4835E-15	2.09457E-14	Piwil4
0.318799318	5.161147411	2.4544E-07	1.60167E-06	Trim67
0.202172424	7.111273037	1.1498E-12	1.29487E-11	Nfkbid
0.098408774	23.95549796	8.098E-127	2.2168E-124	Pml
0.115986555	14.62331237	1.9946E-48	1.08531E-46	Asap3
0.810143438	5.247337832	1.5431E-07	1.03283E-06	Clca3b
0.080868095	13.23021411	5.872E-40	2.49244E-38	Rnf139
0.091982983	20.08239623	1.052E-89	1.40397E-87	Lrg1
1.369007849	3.332326194	0.00086123	0.003115768	Lypd8l
0.107235837	15.12566064	1.0969E-51	6.43908E-50	Clic4

0.135180967	21.88618811	3.517E-106	6.3753E-104	Tap1
0.06406099	18.51774878	1.4852E-76	1.49781E-74	Icam1
0.349048588	6.268747816	3.6396E-10	3.28301E-09	Serpine1
0.866180398	3.508825274	0.00045009	0.00173081	Vgf
0.834414276	2.744935571	0.00605228	0.018124403	Fer1l5
0.120351052	11.49152095	1.4553E-30	4.37167E-29	Vnn1
0.1530091	16.37510251	2.8802E-60	2.11106E-58	Arid5a
0.117660633	18.09550994	3.4573E-73	3.28884E-71	Gch1
0.203501722	6.088769903	1.1378E-09	9.7705E-09	Tnfrsf23
0.164311102	16.7252619	8.5798E-63	6.71027E-61	Themis2
0.123997934	14.57429561	4.0932E-48	2.20492E-46	Fbxw17
0.100274761	22.16205611	7.982E-109	1.598E-106	Tgm2
0.261456465	14.4927098	1.3472E-47	7.10026E-46	Ifi206
0.21213892	12.46512926	1.1568E-35	4.28638E-34	Egr2
0.304803821	12.0759017	1.416E-33	4.84676E-32	Ackr1
0.378659742	2.689663514	0.00715241	0.021040744	Dusp8
0.160071797	22.69641348	4.861E-114	1.105E-111	Ddx60
1.410357605	4.149509293	3.3319E-05	0.000157555	A4gnt
0.143590135	10.01078677	1.3666E-23	3.04998E-22	Ninj1
0.143353898	16.17817009	7.19E-59	5.1026E-57	Parp11
0.192051677	19.51921792	7.5383E-85	9.19196E-83	Socs1
1.076074027	9.596250801	8.2905E-22	1.67724E-20	Csf3
0.097256674	15.01637275	5.7362E-51	3.31636E-49	Fkbp14
0.135351187	7.763108186	8.2873E-15	1.1044E-13	Cd84
0.071609992	14.11403863	3.1123E-45	1.53759E-43	Spon1
0.317668938	9.271291135	1.8391E-20	3.47427E-19	Slamf7
0.880882404	2.532925894	0.01131149	0.031441502	Itln1
0.118458063	15.13991271	8.8331E-52	5.19641E-50	Tapbpl
0.113741088	22.14525446	1.159E-108	2.3032E-106	Sema7a
0.145097328	13.95695747	2.8536E-44	1.3621E-42	Snx10
0.099484356	15.26261742	1.3569E-52	8.27303E-51	Spats2l
0.474964524	3.096882509	0.00195567	0.006580071	Gpr162
0.24361824	4.71130166	2.4614E-06	1.39391E-05	Egr1
0.091433121	19.60112209	1.5125E-85	1.87846E-83	Chmp4b
0.088409588	30.97624127	1.126E-210	1.042E-207	Parp12
0.291600565	9.092796268	9.6524E-20	1.75549E-18	Gdf15
0.389101325	2.852187129	0.00434195	0.013425223	Tmc3
2.023997962	2.526511165	0.01152017	0.031952042	Cyp24a1
1.121707888	6.048014807	1.4664E-09	1.24252E-08	Sct
0.076593903	13.58083402	5.2031E-42	2.32629E-40	Mcl1
0.162193655	14.36686729	8.3525E-47	4.24363E-45	Ctss
0.08373292	12.00482235	3.3518E-33	1.12395E-31	Rnh1
0.102955255	14.37707235	7.208E-47	3.68307E-45	Lpar1
0.259651394	7.452672351	9.1468E-14	1.12763E-12	Ptk6
0.138237017	10.78602225	4.0076E-27	1.05711E-25	Ascc3
0.088274138	19.0304372	9.5453E-81	1.07139E-78	Zcchc2
0.066443993	17.39932958	8.3474E-68	7.10882E-66	Shfl
0.174231627	6.997996995	2.5965E-12	2.83719E-11	Slco4a1
1.546303668	3.193552394	0.00140534	0.004884634	En2
0.200729889	7.79484675	6.4487E-15	8.65826E-14	F13a1
0.437016789	8.328566528	8.1827E-17	1.24157E-15	Orm1
0.159798028	6.45248357	1.1003E-10	1.04338E-09	Metrnl

0.134368351	10.80542694	3.2444E-27	8.60884E-26	Stx11
0.164856972	19.83819101	1.3938E-87	1.7721E-85	Isg20
0.090284466	16.39741398	1.9955E-60	1.47472E-58	Azi2
0.486748571	2.626313817	0.00863152	0.024817701	Clnk
0.340418984	16.69671674	1.3848E-62	1.07676E-60	Sectm1b
0.221172348	6.721733543	1.7958E-11	1.82128E-10	Mreg
0.098951077	14.51977676	9.0805E-48	4.81413E-46	Morc3
1.552848025	3.971515293	7.1417E-05	0.000318668	Cntn5
0.111174933	28.23708747	2.051E-175	1.1959E-172	Znfx1
0.187234338	9.784910015	1.3071E-22	2.75017E-21	Cyp7b1
0.157895109	11.29992747	1.3133E-29	3.80861E-28	Zup1
0.749479497	2.927386314	0.00341824	0.010805763	Flicr
0.08805092	15.48582637	4.3247E-54	2.72975E-52	Lap3
0.115733727	9.491900174	2.2686E-21	4.5013E-20	Ncoa7
0.179627741	20.17826021	1.52E-90	2.09109E-88	Batf2
0.353189408	4.40176226	1.0738E-05	5.50544E-05	Il22ra2
0.155657002	11.98330385	4.3465E-33	1.45024E-31	Trim14
0.149632374	17.60359983	2.3115E-69	2.04651E-67	Fgl2
0.129989382	13.22926125	5.9469E-40	2.51627E-38	Spsb1
0.159572699	8.442555469	3.1047E-17	4.87633E-16	Ptger4
0.168387455	6.614498614	3.7281E-11	3.685E-10	Rhou
0.099172859	15.91425929	5.0461E-57	3.3757E-55	Timeless
0.13569452	19.34096168	2.429E-83	2.83309E-81	Ifi203
0.132741517	16.44188955	9.5882E-61	7.10535E-59	Slc7a5
1.238123809	7.171885083	7.3972E-13	8.45134E-12	Saa4
1.113954666	6.016478627	1.7825E-09	1.49712E-08	Saa3
0.093379041	33.27236393	9.695E-243	1.1822E-239	Stat2
0.07569865	13.46591313	2.4823E-41	1.0863E-39	Rbms2
0.31013188	5.488283414	4.0586E-08	2.91033E-07	Thbs1
0.16404984	18.76101892	1.5735E-78	1.68174E-76	Gbp7
0.382718023	10.99197069	4.177E-28	1.14457E-26	Gbp2b
0.226187276	4.638619514	3.5074E-06	1.94121E-05	Pacsin1
0.111921322	24.45087208	4.926E-132	1.4848E-129	Rigi
0.659143463	5.797333811	6.7377E-09	5.30205E-08	Btbd16
0.319427408	15.22021148	2.5969E-52	1.54467E-50	Or2v1
0.126647098	24.94155614	2.637E-137	8.6266E-135	Plekha4
0.11890469	16.29192471	1.1263E-59	8.14384E-58	Ppp1r15a
0.09884168	32.43115263	9.989E-231	1.0306E-227	Xaf1
0.136996286	10.07206511	7.342E-24	1.66348E-22	Pvr
0.189208084	5.827344377	5.6316E-09	4.48424E-08	Tlr8
0.217892818	9.541640737	1.4059E-21	2.81243E-20	Milr1
0.171434953	18.10807602	2.752E-73	2.63661E-71	C3ar1
0.272318797	3.833435623	0.00012637	0.000538676	Rundc3b
0.130413609	16.82706396	1.5458E-63	1.23784E-61	Apobec1
0.109489945	11.86203591	1.8639E-32	6.06063E-31	Efhd2
0.136896973	11.13119276	8.8444E-29	2.4844E-27	Sh3pxd2b
0.207251762	6.394959297	1.6059E-10	1.50524E-09	Slc25a34
0.165637185	9.235952441	2.56E-20	4.78899E-19	Cd53
0.206799083	5.163005252	2.4302E-07	1.58888E-06	Lat2
0.130799386	10.38737372	2.8304E-25	6.88379E-24	Zmynd15
0.880439408	6.476636145	9.379E-11	8.96015E-10	Gm11639
0.202253048	9.442971685	3.6235E-21	7.12647E-20	Ramp3

0.681354553	3.134019541	0.00172429	0.005878991	Mslnl
0.123755064	10.65020318	1.7398E-26	4.46633E-25	Ripk2
1.461271945	3.661680026	0.00025057	0.001011543	Pnma8a
0.116911376	9.505304563	1.9946E-21	3.96356E-20	Slc7a1
0.231881801	12.2578426	1.5251E-34	5.41872E-33	Inhba
0.242415811	8.052859602	8.0882E-16	1.16652E-14	Bdkrb1
0.246400529	15.7805157	4.2371E-56	2.75886E-54	Serpina3h
0.179732226	24.14316253	8.809E-129	2.4876E-126	Serpina3g
0.077387812	18.78954483	9.1965E-79	9.86819E-77	Selenow
1.777520686	3.134023909	0.00172427	0.005878991	Crx
0.073091955	22.42218981	2.391E-111	5.1319E-109	Cdc42ep4
0.149489331	8.17967218	2.8462E-16	4.20901E-15	Entpd3
0.584114677	2.576442664	0.00998228	0.028190813	Nppa
0.07902215	12.98547026	1.4793E-38	5.99439E-37	Ddx24
1.378349897	4.038482078	5.3798E-05	0.000245107	Iapp
0.082798004	21.37484449	2.291E-101	3.7935E-99	Tspo
0.28782507	6.032951427	1.6099E-09	1.35682E-08	Trem3
0.177803083	13.6137828	3.3162E-42	1.48517E-40	Enc1
0.141708051	18.58092275	4.5855E-77	4.74947E-75	Myrip
0.316932055	20.12422217	4.5282E-90	6.10423E-88	Oasl1
0.220168777	5.498926098	3.8211E-08	2.75329E-07	Sytl3
0.154484837	6.855213637	7.1206E-12	7.49087E-11	Slc16a6
0.252515156	4.425033959	9.6427E-06	4.97548E-05	Tnfrsf18
0.159908411	9.772760345	1.4738E-22	3.08637E-21	Klhdc8a
0.207985069	5.81733151	5.9794E-09	4.74149E-08	Tmc7
0.573386503	2.636306888	0.00838139	0.024215309	Ccr8
0.222268338	12.44937827	1.4094E-35	5.19344E-34	Trem1
0.148500227	7.502301101	6.2707E-14	7.80957E-13	Ikbke
0.082270353	15.25221111	1.5915E-52	9.63744E-51	Arel1
0.075322648	17.57541465	3.801E-69	3.34315E-67	Atf4
0.088024241	17.86166465	2.3454E-71	2.14735E-69	AA986860
0.339873016	6.083956651	1.1725E-09	1.00589E-08	Asb4
0.130293797	12.51112221	6.4901E-36	2.4181E-34	Maff
0.644211699	4.669856003	3.0141E-06	1.68521E-05	Gucy2c
0.18184132	13.21763692	6.9411E-40	2.93229E-38	Zc3h12a
0.106252996	13.82308913	1.8496E-43	8.59915E-42	Naa25
0.110030959	25.32382541	1.746E-141	6.005E-139	Trafd1
0.091176334	13.87980533	8.3972E-44	3.93816E-42	Id1
1.803915901	3.133611174	0.00172669	0.005885682	Kcna10
0.097546889	19.99008817	6.7177E-89	8.74801E-87	Aida
1.716346933	3.326637245	0.00087901	0.003174936	Tnp2
1.289763483	5.594700052	2.21E-08	1.63684E-07	Aqp6
0.272050061	11.87315719	1.6319E-32	5.3128E-31	Ifi209
0.1087746	10.38231571	2.9845E-25	7.24537E-24	Trim56
0.408438127	5.910206036	3.4168E-09	2.78514E-08	Zfp536
0.1457917	16.13042206	1.5595E-58	1.09025E-56	Mmp3
0.291927215	4.337343707	1.4422E-05	7.22583E-05	Adamts3
0.227136469	16.97900644	1.1746E-64	9.6654E-63	B430306N03R
1.119948502	2.357815883	0.01838281	0.047989218	Vwce
0.194492298	9.073338129	1.1543E-19	2.08934E-18	Clec4a3
2.027604508	2.472141877	0.01343062	0.036570221	Tmem145
0.301820007	13.80816539	2.2755E-43	1.05429E-41	A530064D06R

0.150927209	13.56517589	6.4425E-42	2.87087E-40	Ccrl2
1.56554986	4.010893669	6.0489E-05	0.000273272	Spata31d1d
0.522202284	3.801589837	0.00014377	0.000607656	Il36g
0.184572377	14.86685064	5.4099E-50	3.04247E-48	Tnip3
0.81625037	3.339768114	0.00083848	0.003040849	Bcl2l15
0.159988773	6.676784362	2.4424E-11	2.44479E-10	Il20rb
0.309460419	10.56607558	4.2803E-26	1.07715E-24	Mab21l3
0.136341678	9.731863857	2.2051E-22	4.57151E-21	Ackr3
0.157324932	14.53005249	7.8161E-48	4.16019E-46	Lacc1
0.24415289	4.77694357	1.7798E-06	1.02987E-05	Gm9791
0.084802496	15.52414243	2.3817E-54	1.51042E-52	Rin3
0.437866753	4.079096515	4.5211E-05	0.000208713	A730020M07F
0.176415327	12.54427962	4.2728E-36	1.59864E-34	Tlr7
1.219793952	4.799805677	1.5882E-06	9.25994E-06	Csrnp3
0.417321838	9.47039422	2.7879E-21	5.51128E-20	Il27
0.235762351	22.39769758	4.145E-111	8.7544E-109	Phf11a
0.390042798	3.616368617	0.00029876	0.001188767	E230025N22R
0.128925755	17.98984187	2.3402E-72	2.1723E-70	Zfp36
0.203632184	5.573506769	2.4966E-08	1.83642E-07	Cd300c2
1.738960269	2.949637359	0.00318147	0.010128904	Gm1123
0.755095571	8.32896227	8.1554E-17	1.23813E-15	Prss22
0.743579723	5.109822439	3.2246E-07	2.06847E-06	9930022D16R
0.110691948	11.79041892	4.3736E-32	1.39508E-30	S1pr1
0.199213501	13.34039315	1.3475E-40	5.78356E-39	Arhgef37
1.901044706	2.88059447	0.00396926	0.012378443	Sox3
0.385111196	10.21992473	1.6147E-24	3.76324E-23	Tlr9
0.220285189	5.590230565	2.2677E-08	1.67769E-07	Fndc7
0.46658182	5.380820009	7.4147E-08	5.14771E-07	Sh2d5
0.158781111	6.822530064	8.9451E-12	9.33337E-11	Kcnk13
0.198603686	13.18126361	1.1249E-39	4.7225E-38	Hcar2
1.280156828	4.52243525	6.1132E-06	3.25448E-05	Lypd10
0.110461913	13.02578624	8.7297E-39	3.59177E-37	Adrb2
0.174326718	13.67620406	1.4086E-42	6.38279E-41	Basp1
0.087039022	16.06399253	4.5622E-58	3.13807E-56	Whamm
0.055315024	23.52682689	2.168E-122	5.5392E-120	Serpinb9
0.284359432	8.911010064	5.057E-19	8.79186E-18	Gvin1
0.14796431	39.92207752	0	0	Ifit2
0.089742553	12.40254597	2.5315E-35	9.26468E-34	Stard5
0.466510876	10.46163507	1.296E-25	3.18665E-24	Calhm6
1.778121211	2.895884366	0.00378092	0.011842017	Il17c
0.164113641	6.768659715	1.2998E-11	1.33188E-10	Adamts6
0.138762595	13.51879967	1.2114E-41	5.34474E-40	Plaur
0.127066548	7.943818786	1.9605E-15	2.73207E-14	Trarg1
0.24148845	9.300023038	1.4042E-20	2.66958E-19	Arsj
0.55888178	4.10653268	4.0164E-05	0.000186992	Oacyl
1.417161536	2.389824904	0.01685641	0.044480619	Or5an6
0.298589188	6.710705502	1.9369E-11	1.96142E-10	Gm5424
0.161841066	16.5466605	1.6923E-61	1.27167E-59	Tifa
0.13249617	18.90141578	1.1103E-79	1.21574E-77	Tent5b
0.792044998	2.961132088	0.0030651	0.009802634	Slitrk4
0.119441426	12.57381149	2.9419E-36	1.10687E-34	Hmga1
0.099892136	34.32873554	2.925E-258	4.6156E-255	Bst2

0.584337734	2.42806775	0.01517951	0.040651439	Phgr1
0.168652226	14.9817498	9.6639E-51	5.52758E-49	Mpeg1
0.216817163	10.15619893	3.1096E-24	7.18512E-23	Mettl21e
0.134395226	28.93469486	4.373E-184	2.8609E-181	Irgm1
0.379984969	2.937079137	0.0033132	0.010498973	Gm5637
0.110406923	9.845941708	7.1368E-23	1.52187E-21	Prr15l
0.153873309	13.97656441	2.167E-44	1.03807E-42	Dusp28
0.067934533	21.517389	1.07E-102	1.8056E-100	Rnf31
0.146581167	8.217021363	2.0862E-16	3.10568E-15	Neurl3
0.313093054	7.159647253	8.0885E-13	9.21758E-12	Cldn2
0.099117912	12.45394462	1.331E-35	4.91812E-34	Ptgs1
0.450377351	8.527558994	1.4947E-17	2.4053E-16	Gpr15
0.227795735	9.760873052	1.6572E-22	3.45161E-21	Kcne4
0.209699794	11.65595483	2.1397E-31	6.65112E-30	Cldn4
0.76126685	5.674931719	1.3874E-08	1.05288E-07	Apof
0.464815366	3.945626484	7.9592E-05	0.000352155	Krt87
0.120983299	18.24616077	2.2197E-74	2.16531E-72	Samd9l
0.156355383	21.93809439	1.125E-106	2.0961E-104	Cd300lf
0.143070069	10.26850111	9.7711E-25	2.30131E-23	Ccdc88b
0.180944181	10.28657832	8.1004E-25	1.91962E-23	Marcksl1
0.543571211	3.520057063	0.00043145	0.001667269	Synb
0.412110748	6.403281848	1.5207E-10	1.42935E-09	Catsper4
0.148280894	9.117403827	7.6945E-20	1.40801E-18	Selplg
0.140737495	8.30310432	1.0143E-16	1.53029E-15	Rnf149
1.673305251	2.421548256	0.01545455	0.041280865	Scrt1
0.170492697	13.76005387	4.432E-43	2.03582E-41	Jaml
0.268085126	10.00145928	1.5017E-23	3.33753E-22	Tmem252
0.563941884	2.919727473	0.00350338	0.011041068	Nog
0.245351374	11.63893255	2.6126E-31	8.09318E-30	Gm6377
0.343131352	10.95390809	6.3641E-28	1.72448E-26	A730049H05R
1.000843391	2.73741825	0.00619235	0.018494322	Ccdc169
1.194580638	10.1656469	2.8224E-24	6.53272E-23	Ifnb1
0.194118643	20.14921834	2.734E-90	3.72291E-88	Gm12185
0.325656428	7.082255041	1.4183E-12	1.5833E-11	Nr1h5
0.226799151	9.101107297	8.9415E-20	1.62731E-18	Clec4a1
0.856954536	2.444799058	0.01449329	0.039051517	Pcdh10
0.294141729	4.358994617	1.3066E-05	6.59477E-05	Ccr2
0.175326608	10.90992497	1.0334E-27	2.76947E-26	C5ar1
0.265896937	12.07768962	1.3856E-33	4.76534E-32	Syt12
0.168271243	6.613108652	3.7633E-11	3.71704E-10	Fut4
0.101256148	22.23461752	1.589E-109	3.2543E-107	Ogfr
1.075237065	3.691595106	0.00022285	0.000910621	Slc36a3
0.110898163	24.58607968	1.78E-133	5.4881E-131	Dtx3l
0.151265604	8.690303769	3.6147E-18	6.00795E-17	Tsku
0.17559532	8.935376971	4.0579E-19	7.10097E-18	Tifab
0.078607308	14.52211237	8.7763E-48	4.66206E-46	Aftph
1.612377647	3.116085913	0.00183269	0.006201275	Prss46
0.173165135	20.35090123	4.5582E-92	6.40196E-90	Trex1
0.086046952	12.2288924	2.1789E-34	7.69092E-33	Fzd4
0.073663043	14.8812382	4.3635E-50	2.45914E-48	Armcx4
0.142275253	7.341409596	2.1136E-13	2.52105E-12	Suox
0.315633139	3.776296812	0.00015918	0.000666161	Gm7984

0.188719773	9.906352866	3.9065E-23	8.46485E-22	Rasd1
0.863402459	2.615738413	0.00890347	0.025498515	Or8b54
1.230141047	4.244032294	2.1954E-05	0.00010671	Glp2r
0.318024576	7.040045968	1.9218E-12	2.11718E-11	Lrrc4
0.226114124	11.58121693	5.1312E-31	1.57135E-29	Lrrc25
0.205334141	14.22000191	6.8851E-46	3.42037E-44	Apol10b
0.102768166	10.12109503	4.454E-24	1.02211E-22	Rap2c
0.089301931	14.21985892	6.8992E-46	3.42103E-44	Zfp697
0.228758737	8.064080624	7.3789E-16	1.06883E-14	Gpr171
1.705908214	3.117019684	0.00182689	0.006187597	Akap4
0.164799881	8.099534492	5.517E-16	8.05216E-15	Fam110d
0.117861765	12.53801089	4.6246E-36	1.72784E-34	Lgals3
0.234853791	4.912305294	9.0012E-07	5.44454E-06	4930486L24Ri
0.165023331	28.86766297	3.042E-183	1.8975E-180	Ch25h
1.524358969	4.175178592	2.9775E-05	0.000141798	Svs3b
0.225900357	5.376959189	7.5754E-08	5.2552E-07	Tnfsf15
1.377930191	3.619477483	0.0002952	0.001176321	Enthd1
0.415384816	5.552974989	2.8085E-08	2.05119E-07	Pcdh20
0.205997273	6.121235949	9.2852E-10	8.03243E-09	Gm9845
0.206896212	5.461586058	4.719E-08	3.36233E-07	Adra1b
0.122541136	9.73684269	2.0998E-22	4.36655E-21	Fam241a
0.079435036	22.25931328	9.164E-110	1.891E-107	Tor1aip2
0.408570757	6.685362915	2.3035E-11	2.31267E-10	Mmp13
0.11531456	10.57035966	4.0892E-26	1.03196E-24	Vstm4
0.466770649	4.517065401	6.2703E-06	3.32949E-05	Ism2
0.138817657	10.94959922	6.6742E-28	1.80669E-26	Plekho2
0.139421969	9.162765503	5.0584E-20	9.3584E-19	Ptges
0.427763286	7.101844126	1.231E-12	1.38348E-11	Trim15
1.271181689	6.007053332	1.8893E-09	1.58379E-08	Or2t26
0.128531233	15.17353259	5.2949E-52	3.12864E-50	Tmem37
0.258260424	15.56228926	1.3132E-54	8.36747E-53	Rtn4rl2
0.491014522	3.998671557	6.3699E-05	0.000286517	Insl6
1.990817238	2.471416539	0.0134579	0.036629619	Spink14
1.364849979	5.360576909	8.2957E-08	5.72081E-07	Ghsr
0.551032511	6.059570351	1.3649E-09	1.16308E-08	Islr2
1.401793362	4.710035887	2.4767E-06	1.4017E-05	Nhlh1
0.297667663	5.929796499	3.0331E-09	2.48446E-08	Ffar2
0.096761439	20.6926361	4.0354E-95	6.11598E-93	Tacstd2
0.130638574	14.23853267	5.2825E-46	2.62908E-44	Cd14
0.834001519	2.778457132	0.00546177	0.016509013	Foxd4
0.226874698	6.194217938	5.8575E-10	5.1808E-09	Tlr6
0.681967942	3.63294428	0.00028021	0.001120739	Otop1
0.408732185	3.673371353	0.00023937	0.000971463	Kctd19
0.696027591	5.197911275	2.0154E-07	1.33002E-06	Apon
0.276525247	3.698230347	0.00021711	0.000888232	Wfdc21
0.080359074	19.52835453	6.3038E-85	7.72173E-83	Nlgn2
0.082810638	12.12873969	7.4385E-34	2.57147E-32	Ppp4r2
0.180049188	6.297898719	3.0171E-10	2.74639E-09	Pld4
0.306688522	12.45988484	1.2355E-35	4.57148E-34	Cd177
0.176982943	7.530946132	5.0374E-14	6.33239E-13	Zeb2os
0.205013218	11.75401501	6.7341E-32	2.13031E-30	Fpr2
0.133042449	8.771484762	1.7633E-18	2.98618E-17	Nrros

0.489880095	2.56315089	0.0103727	0.02915222	Trpm3
0.193543225	12.77437899	2.2796E-37	8.91436E-36	C130026I21Ri
0.222382334	15.89309478	7.0747E-57	4.70932E-55	Tmem171
0.650901377	6.358185994	2.0415E-10	1.89631E-09	Sh2d6
0.13890435	8.128650447	4.341E-16	6.35648E-15	Rab7b
0.163720457	17.78222783	9.7046E-71	8.79512E-69	Trim30b
0.399814929	3.973707715	7.0762E-05	0.000316063	Gm9889
0.165829003	26.30353525	1.747E-152	7.2108E-150	Oas1a
0.1580823	6.70849451	1.9664E-11	1.98837E-10	Gm9892
0.121986867	14.29711592	2.2807E-46	1.14572E-44	Junb
0.203063131	8.712437895	2.9741E-18	4.96161E-17	Creb5
0.347281367	9.363158812	7.7388E-21	1.49353E-19	Gpr141
0.139786284	22.00317536	2.685E-107	5.1085E-105	Socs3
0.112161946	9.134440282	6.5746E-20	1.20801E-18	Fes
0.113975395	20.22615789	5.7622E-91	8.00912E-89	Bcl3
0.301715118	10.87829514	1.4627E-27	3.9044E-26	Slamf8
0.343312693	12.88667007	5.3505E-38	2.12325E-36	Tarm1
0.265967331	10.79248054	3.7357E-27	9.86352E-26	Tnfaip6
0.13500625	7.654532465	1.9402E-14	2.52165E-13	Ier2
2.03895932	2.615906577	0.00889909	0.025492933	Oas1f
0.738019438	6.853677252	7.1975E-12	7.56587E-11	Krt16
0.156473451	13.88661507	7.636E-44	3.58743E-42	H2-T24
0.098094396	20.76689491	8.6257E-96	1.32225E-93	Lipg
0.22825193	18.05715622	6.9302E-73	6.56925E-71	Iigp1
1.182149997	3.145900432	0.00165576	0.005669839	Adm2
0.647446901	3.882440535	0.00010341	0.000448024	Ceacam10
0.294081411	20.18524233	1.3198E-90	1.82498E-88	Ifi205
0.106992095	11.13904074	8.0987E-29	2.2797E-27	Rhob
0.137383771	7.491380678	6.8153E-14	8.46073E-13	Ceacam2
0.133666625	17.37589588	1.2563E-67	1.06649E-65	Slfn5
0.127194857	12.93947905	2.6945E-38	1.07724E-36	Sh3bp2
0.404641842	5.127503688	2.9361E-07	1.89563E-06	Pabpc1l
0.145047536	15.87302037	9.7437E-57	6.45393E-55	1600014C10R
1.534056447	4.281857284	1.8534E-05	9.1228E-05	Mtnr1a
0.18132682	12.86723263	6.8824E-38	2.72714E-36	Rnd1
1.774961463	3.181068952	0.00146733	0.005085596	Spink6
1.221043683	7.720563203	1.1582E-14	1.53125E-13	A630012P03R
0.179263012	8.332855872	7.8915E-17	1.19942E-15	Arntl
0.091032962	14.56800171	4.4883E-48	2.41288E-46	Klf2
0.409639496	9.830942214	8.284E-23	1.7637E-21	Ifng
0.102677037	14.48021789	1.6158E-47	8.48269E-46	C1ra
0.726010839	3.154247227	0.00160913	0.005522396	9430025C20R
0.131102072	11.31173366	1.148E-29	3.35102E-28	H2-Q5
0.06454164	19.89285605	4.6925E-88	6.05196E-86	Cd47
0.219391333	8.432535314	3.3826E-17	5.29717E-16	Lair1
0.306888409	4.393159244	1.1172E-05	5.70073E-05	Timd4
0.441861391	4.15753393	3.217E-05	0.000152554	Tcp10b
0.588701472	3.765960689	0.00016591	0.0006925	Gm14137
0.169774007	13.5310344	1.0257E-41	4.54801E-40	Nod2
0.131191641	39.2602226	0	0	Clca3a1
0.335289607	9.28463612	1.6226E-20	3.07619E-19	S100a8
0.323929403	9.081912081	1.0668E-19	1.93372E-18	S100a9

0.115514004	24.40227961	1.618E-131	4.8212E-129	H2-T22
0.709442887	3.851792492	0.00011726	0.000503364	Unc93a2
0.082888869	22.36871489	7.939E-111	1.651E-108	Trim34a
0.133699861	7.559986169	4.0311E-14	5.11295E-13	Dennd1b
0.145863543	7.990540332	1.3435E-15	1.90488E-14	Ms4a4b
1.300164353	6.425276919	1.3163E-10	1.24334E-09	Taar1
1.43138823	2.378393452	0.01738826	0.045722912	Gpr50
0.14196781	10.6591664	1.5801E-26	4.06395E-25	Adap1
0.242730182	4.68974615	2.7354E-06	1.53935E-05	Med12l
0.5849036	10.5165149	7.2506E-26	1.79598E-24	Cngb3
0.140922479	14.25620642	4.1015E-46	2.04512E-44	Cebpb
0.185761026	17.72617884	2.6334E-70	2.33915E-68	Ptafr
0.53215828	2.340497762	0.01925805	0.049938768	Hoxb8
1.040763086	4.00918275	6.0929E-05	0.000275074	Apol8
0.125595271	10.8489616	2.017E-27	5.37329E-26	Ier5
1.896331903	2.362540272	0.01815017	0.047451169	A730036I17Ri
0.176876354	18.99200618	1.9859E-80	2.21058E-78	Nfil3
1.042443946	3.952024124	7.7493E-05	0.000343778	Hmga2
0.25073763	13.43343856	3.8511E-41	1.67981E-39	Scimp
0.085321572	18.55662634	7.2092E-77	7.40975E-75	Tmem140
0.101110927	16.37709344	2.7875E-60	2.04869E-58	Trim12c
0.157978501	10.2221372	1.5782E-24	3.68151E-23	AB124611
0.152431077	34.50385261	7.022E-261	1.1774E-257	Apol9a
0.107284364	11.87645735	1.5688E-32	5.11343E-31	Birc2
1.476203368	2.976102566	0.00291937	0.009390297	Saa2
0.079819297	15.84658881	1.4842E-56	9.78271E-55	Lgals8
0.073534313	16.23438907	2.881E-59	2.06648E-57	Eif1a
0.146061128	25.73795088	4.398E-146	1.6161E-143	Trim30d
0.438573129	2.49843922	0.01247415	0.034268472	Prtn3
0.110166437	11.57591555	5.4585E-31	1.66968E-29	Bak1
0.398533148	2.944148765	0.00323844	0.010283436	Gm10030
1.464092914	2.545140083	0.01092339	0.030485943	Trim31
0.219547308	4.632593109	3.6111E-06	1.99288E-05	Chsy3
0.1618374	24.67835519	1.827E-134	5.7647E-132	Gm5431
0.736772158	7.764594061	8.1907E-15	1.09207E-13	Serpina3k
1.561104236	3.245102403	0.00117408	0.004142572	Gm12253
0.352683613	19.45470827	2.6586E-84	3.21261E-82	Cxcl2
1.132078103	3.05189137	0.00227404	0.007514597	Btnl4
1.354868626	2.4928585	0.01267193	0.034760383	Cela2a
0.588802537	3.650207885	0.00026203	0.001053848	Anks1b
0.125185725	18.29615907	8.8792E-75	8.69323E-73	Gda
0.171667086	13.79691463	2.66E-43	1.22816E-41	Fcer1g
1.231929822	4.130365393	3.6219E-05	0.00016989	Lypd11
0.598483824	10.68822425	1.1556E-26	2.98946E-25	Kcnt1
0.179992776	18.54885408	8.3309E-77	8.52997E-75	Osm
0.173065205	12.63064351	1.431E-36	5.4685E-35	Pirb
1.41862557	2.990548622	0.00278477	0.008997252	Gm4832
0.137960568	8.964890931	3.1059E-19	5.47787E-18	Gm10053
0.184756886	9.024171333	1.8106E-19	3.24241E-18	Tlcd3b
0.072499973	15.26864058	1.2373E-52	7.5605E-51	Sh2d3c
0.306451028	12.23834669	1.9394E-34	6.86374E-33	Fcgr4
0.403472189	7.279579274	3.3486E-13	3.94685E-12	Ifitm6

1.197772975	8.987506536	2.529E-19	4.47223E-18	Ifnl2
0.679972181	2.598563095	0.00936148	0.026648044	Gckr
0.068181533	16.15199765	1.0994E-58	7.76138E-57	Max
0.142982851	12.6107623	1.842E-36	7.00911E-35	Fcgr3
0.63478154	3.407766999	0.00065497	0.002429504	Clec4a4
0.327589567	9.047116405	1.4679E-19	2.6411E-18	Stfa2l1
0.840203323	2.849685594	0.00437625	0.013514123	Or2y1g
0.16289505	7.154354309	8.4068E-13	9.56809E-12	Alox5ap
0.167089557	9.216311959	3.0749E-20	5.72439E-19	Atp8b4
1.234969296	9.965286656	2.1625E-23	4.755E-22	Cxcl11
1.407720071	5.154010657	2.5497E-07	1.66098E-06	Gm839
0.29482069	7.068578666	1.5653E-12	1.73945E-11	Sycp2
0.090802674	30.78531787	4.12E-208	3.6843E-205	Tor3a
0.093792882	12.99186267	1.3607E-38	5.5392E-37	Tmem219
0.14007207	10.46547668	1.2445E-25	3.0628E-24	H2-Q7
0.075270557	16.92410451	2.9886E-64	2.42944E-62	Ifitm2
0.084044076	12.03487841	2.3298E-33	7.88126E-32	Cd302
1.199964329	8.757950934	1.9883E-18	3.35463E-17	Ifnl3
0.13268145	13.90188269	6.1697E-44	2.91387E-42	B2m
0.103288895	11.51077236	1.1643E-30	3.51732E-29	Rrs1
0.193936628	7.991052838	1.3379E-15	1.89798E-14	Or8b53
0.253071223	6.601109493	4.0809E-11	4.01742E-10	Retnla
0.104665273	16.28887761	1.1838E-59	8.53686E-58	H2-K1
0.638320128	4.028068017	5.6237E-05	0.000255401	Tmem236
0.417285354	11.50677037	1.2196E-30	3.68022E-29	Orm2
0.200308755	6.142624088	8.1169E-10	7.06733E-09	Adgrg5
0.630095894	6.675970609	2.456E-11	2.45657E-10	Slc22a12
0.138856834	7.813840472	5.5471E-15	7.48528E-14	Kalrn
1.387591124	3.072933563	0.00211966	0.007063591	Tac1
0.216447103	10.13200142	3.9841E-24	9.15831E-23	Gm53056
0.131004326	19.68329745	2.9984E-86	3.7587E-84	Sphk1
1.54661086	3.300028499	0.00096675	0.003463413	Myt1l
0.176412872	13.46629682	2.4694E-41	1.08244E-39	Hsh2d
0.134730523	10.80279213	3.3389E-27	8.84206E-26	Gm10108
0.203627778	8.020695198	1.0515E-15	1.50278E-14	Cd200r4
0.579477006	3.118418949	0.00181824	0.006164052	Ear6
0.674673921	4.07682604	4.5655E-05	0.000210543	Glrp1
0.287480427	11.05558713	2.0598E-28	5.73805E-27	Tubb3
1.412955244	5.066781878	4.046E-07	2.55743E-06	Ctrc
0.150663761	35.3333436	1.807E-273	3.4627E-270	Ifit3b
0.16693906	18.89199316	1.3274E-79	1.44749E-77	Gm49339
1.165853452	3.267355458	0.00108557	0.0038541	Btnl1
0.458608773	5.523340578	3.3261E-08	2.41154E-07	Csprs
1.430304267	2.539984177	0.01108575	0.030884441	Klk1b27
0.648207282	8.305308878	9.956E-17	1.50383E-15	Gpr84
0.273541801	3.852477574	0.00011693	0.000502118	Zfp993
0.121957148	21.9949044	3.222E-107	6.0871E-105	Parp10
0.64661028	2.434794576	0.01490025	0.040015417	Gm10128
0.275821094	6.423170609	1.3346E-10	1.25935E-09	Gvin-ps7
0.291059216	17.75487262	1.5803E-70	1.41782E-68	BC023105
0.234132891	4.985188622	6.1901E-07	3.82707E-06	Nmral1
0.113174592	9.648039403	5.0104E-22	1.02525E-20	Gm7665

0.107814268	10.900225	1.1497E-27	3.0781E-26	Cycs
0.474935277	4.885992321	1.0291E-06	6.17593E-06	Klk1
0.097411893	11.1927217	4.4263E-29	1.26186E-27	Mocs1
0.14285907	9.599520008	8.0318E-22	1.62611E-20	mt-Rnr1
0.344720795	2.950802423	0.0031695	0.010094372	mt-Td
0.691626313	3.529608914	0.00041617	0.00161194	Gm22748
0.489896878	2.399469212	0.01641886	0.043501467	Gm26224
0.746887478	2.4829672	0.01302931	0.035618488	Snora7a
0.248822105	4.675152382	2.9374E-06	1.64401E-05	Gm22357
0.526432204	6.170288228	6.8166E-10	5.98172E-09	Gm26325
0.332806022	3.11910504	0.00181401	0.006152049	Snord22
0.350937767	3.316859612	0.00091035	0.003281089	Gm50452
0.409055883	2.61133188	0.00901903	0.025777174	Gm25789
0.622269489	2.375327335	0.01753339	0.046049619	Gm25894
1.033461035	3.743579009	0.00018142	0.00075336	Mir21a
0.816203315	3.447310213	0.0005662	0.002125798	Snord45c
1.777374683	3.290919648	0.0009986	0.003567052	Mir214
0.24425496	5.456325842	4.8609E-08	3.46066E-07	Mir22
0.782854707	2.645915666	0.00814701	0.023596605	Gm24494
0.886105338	3.662922628	0.00024935	0.001007556	Gm22680
0.79003791	2.569401625	0.01018743	0.028712758	Snord35a
0.480011664	4.959455356	7.0691E-07	4.33642E-06	E230001N04R
0.234053874	5.790089449	7.0349E-09	5.52453E-08	Gm10156
0.110237495	16.04611262	6.0858E-58	4.15417E-56	Trim12a
0.157570562	15.42763923	1.067E-53	6.68785E-52	Serpina3c
0.370370059	17.21260006	2.1362E-66	1.80776E-64	Serpina3f
0.115747594	23.01971199	2.959E-117	6.9631E-115	Ifi208
0.13109214	26.2241986	1.408E-151	5.4738E-149	Zbtb16
0.149989583	7.410560406	1.2577E-13	1.53355E-12	Fxyd6
1.059240822	3.183196874	0.00145659	0.005052283	Tnfsf18
0.179344611	29.36752845	1.427E-189	1.0077E-186	Oas1g
0.918149041	6.64517469	3.0286E-11	3.01464E-10	Oas1e
0.734771126	3.284944808	0.00102002	0.003637266	Cryba4
0.712261805	3.84414695	0.00012097	0.00051807	Unc93a
0.162582401	11.51262432	1.1396E-30	3.44646E-29	H2-K2
0.137185055	19.40656425	6.792E-84	8.09782E-82	H2-T23
0.14535036	15.71622766	1.1709E-55	7.53257E-54	H2-Q10
0.167088421	21.84623597	8.441E-106	1.5197E-103	Ifit1bl2
0.701596033	3.899377213	9.644E-05	0.000419917	Gm10212
0.522668584	5.36594543	8.0526E-08	5.56179E-07	Ms4a15
0.875584538	2.480260513	0.01312864	0.035857153	Krt86
1.313216149	5.643284997	1.6684E-08	1.25225E-07	Smim45
0.376000665	3.638997769	0.0002737	0.001096849	Cst7
0.32027021	4.550779298	5.3448E-06	2.87505E-05	Il2rb
1.907077533	2.349213431	0.01881312	0.048964853	Vmn1r42
0.12047904	32.43532857	8.722E-231	9.3595E-228	Phf11d
0.143209633	35.14293208	1.491E-270	2.6656E-267	Apol9b
0.101231833	14.43198508	3.2557E-47	1.69261E-45	Dok1
0.1277945	24.25875414	5.345E-130	1.5419E-127	Pnp2
0.378176119	7.393605519	1.429E-13	1.7338E-12	Duox2
0.26459904	22.11311588	2.364E-108	4.6284E-106	Gm4841
0.089111708	12.07587559	1.4165E-33	4.84676E-32	Psma5

0.104697265	14.07196222	5.648E-45	2.7548E-43	Il3ra
0.072357644	17.90484916	1.0809E-71	9.99847E-70	Marcks
0.312554637	9.825804337	8.7175E-23	1.8516E-21	Wfdc17
0.2957393	12.18207371	3.8731E-34	1.35462E-32	Slfn9
0.284621983	5.50464473	3.6991E-08	2.67114E-07	Nlrp1a
0.142666118	7.783467304	7.0563E-15	9.43636E-14	Sco1
0.904343124	4.856879407	1.1925E-06	7.08999E-06	4930438A08R
0.14987085	20.52647505	1.2491E-93	1.80159E-91	Irgm2
0.165675986	10.4393264	1.6397E-25	4.02071E-24	9930111J21Ri
0.335633531	5.121945032	3.024E-07	1.94864E-06	9930111J21Ri
0.304647105	3.902055075	9.5379E-05	0.000415703	Spdl1
0.1488775	16.31882961	7.2513E-60	5.25735E-58	Sp140
0.112227386	21.76530919	4.948E-105	8.6746E-103	Sp110
0.098856517	16.99780379	8.5255E-65	7.03705E-63	Gmppb
0.42764707	2.785477199	0.0053449	0.016183102	Mmp27
0.148240984	22.43692253	1.717E-111	3.7151E-109	Rnf213
0.206802397	13.83741284	1.5156E-43	7.05878E-42	Gpr179
0.146059929	8.603076806	7.7607E-18	1.26328E-16	Evi2
0.424555277	8.343265449	7.2267E-17	1.10212E-15	Fbxo39
0.175273438	22.80892176	3.74E-115	8.5742E-113	Il18bp
1.596496021	3.836909072	0.00012459	0.000531963	Ctcfl
0.229387781	12.51031437	6.5564E-36	2.43943E-34	Ifi214
0.401699013	7.446327306	9.5975E-14	1.18101E-12	Fcrlb
0.254484517	5.202753514	1.9636E-07	1.29773E-06	Wfdc8
0.16857573	12.28776781	1.0538E-34	3.77916E-33	Runx3
0.101946578	10.35900157	3.8092E-25	9.18103E-24	Rmdn3
0.255774975	5.208929488	1.8993E-07	1.25682E-06	Cited4
1.241869824	7.596924817	3.0325E-14	3.87566E-13	Ifna4
0.240942182	4.338478898	1.4347E-05	7.19534E-05	Gm19680
1.624909639	4.183272723	2.8734E-05	0.000137109	Ccin
0.25324074	11.02134064	3.0153E-28	8.33913E-27	Ccl19
0.379880111	11.60761937	3.7697E-31	1.15703E-29	Gm10309
0.173308134	11.0003058	3.8084E-28	1.04462E-26	Treml2
0.367579825	3.550353625	0.00038471	0.001500922	Spx
0.128814115	8.372875206	5.6229E-17	8.65903E-16	Naip5
1.574981373	3.286212353	0.00101544	0.00362208	Zfp957
1.108283496	6.126103985	9.0057E-10	7.80067E-09	Gpr31b
0.725766879	2.849323195	0.00438123	0.013527971	Tcp10a
0.139770442	20.47154346	3.8619E-93	5.4815E-91	Setdb2
0.06882119	15.76771761	5.1891E-56	3.36241E-54	Hpcal1
0.421414042	6.104928196	1.0285E-09	8.86274E-09	Tigit
0.535086497	3.98453454	6.7613E-05	0.000303003	Stfa1
0.654494776	2.347839928	0.01888263	0.04912195	Gm10340
0.132659179	27.89267569	3.274E-171	1.7923E-168	Cebpd
0.146801838	12.27313275	1.2627E-34	4.50446E-33	Csf2rb
0.164705326	11.72528496	9.4582E-32	2.97452E-30	Csf2rb2
0.179322207	7.258442539	3.9157E-13	4.59105E-12	Ncf4
0.400768353	5.617514878	1.9372E-08	1.44031E-07	A530040E14Ri
0.154075117	15.00339069	6.9763E-51	4.01599E-49	Trim6
1.43457422	2.657797221	0.00786532	0.022879536	Gm10364
0.200350616	7.278713554	3.3702E-13	3.97051E-12	Slc39a2
0.158593801	20.16118595	2.1467E-90	2.93819E-88	Slfn2

0.36488845	7.870221524	3.5401E-15	4.85272E-14	Slfn10-ps
0.322614358	14.35226518	1.0311E-46	5.22897E-45	G530011O06R
0.402793684	2.755394861	0.00586213	0.017608063	Nup62cl
0.382714231	6.185226103	6.2014E-10	5.46151E-09	4930599N23R
0.510702613	2.644193117	0.00818859	0.023701681	Speer4c
1.967040243	2.659984549	0.00781442	0.022751219	Dnmt3aos
0.449258115	4.0581315	4.9467E-05	0.000226566	9830107B12R
0.336844462	5.234963328	1.6502E-07	1.10009E-06	Trim10
0.179469407	8.06261874	7.4677E-16	1.07994E-14	Gm8909
0.24263882	6.776586516	1.2305E-11	1.2654E-10	H2-T-ps
0.947758568	4.574898544	4.7645E-06	2.58364E-05	H2-Bl
0.848314854	3.064609311	0.00217955	0.007237989	Gm6034
0.132804995	12.33270231	6.0387E-35	2.18616E-33	H2-Q6
0.104380131	15.24557674	1.7617E-52	1.0644E-50	H2-D1
0.195848716	10.53584542	5.905E-26	1.47357E-24	Lst1
0.116919001	14.03974824	8.9028E-45	4.3032E-43	C4b
0.331692699	16.99839163	8.4404E-65	6.98834E-63	Ifi204
0.256163295	17.49780703	1.4889E-68	1.28845E-66	Ifi207
0.257976894	12.69076707	6.6531E-37	2.56668E-35	Ifi213
1.660216467	2.57561112	0.01000631	0.028252743	Dok6
0.540974515	2.922294171	0.00347463	0.01096078	F830208F22Ri
0.197715561	19.31114675	4.3285E-83	5.00506E-81	Gm4951
0.456358494	3.832502579	0.00012685	0.000540467	Smim33
0.650188114	2.477251807	0.01323985	0.036112612	Gm10552
1.517732127	4.323938117	1.5327E-05	7.64518E-05	Zpld2
0.15047222	8.40458486	4.2938E-17	6.66194E-16	Sh3d21
1.072824275	2.44538548	0.01446974	0.039003741	Nps
0.264768019	5.040945422	4.6324E-07	2.90346E-06	Gm54215
0.337351289	3.881501452	0.00010381	0.000449613	Gvin3
0.695691206	2.561953103	0.01040854	0.029246823	Omp
1.308806748	4.410686318	1.0304E-05	5.2965E-05	Saa1
1.820555098	2.97164761	0.00296206	0.009512791	1700057G04R
0.131543143	11.27626739	1.7189E-29	4.9634E-28	Il4i1
0.173186157	19.70281309	2.0397E-86	2.56882E-84	Nlrc5
0.170172622	6.615630419	3.6997E-11	3.65826E-10	Plekhf1
0.747612325	3.905697277	9.3954E-05	0.000409956	Gm10654
1.150923761	2.522525808	0.01165154	0.032236408	Apoc4
0.199026262	11.10994297	1.1223E-28	3.14599E-27	I830077J02Ril
0.183619452	8.933775436	4.1171E-19	7.19518E-18	Tnfaip8l3
0.228234183	7.346736918	2.031E-13	2.42694E-12	Pira12
0.564318464	3.743645079	0.00018137	0.000753279	Pira2-ps2
0.245548792	8.662527332	4.6142E-18	7.61724E-17	Pira13
0.570009161	3.831951972	0.00012713	0.000541506	Gm10693
0.307716377	7.397794044	1.3847E-13	1.68076E-12	Gm16589
0.881758125	2.565806458	0.01029362	0.028975527	Gm10706
0.411177085	3.287207348	0.00101186	0.003610566	Kcng1
0.092738906	17.89480904	1.2944E-71	1.19325E-69	Zfas1
0.087674007	16.09204551	2.9009E-58	2.01086E-56	Tox2
0.126670473	12.06255504	1.6653E-33	5.69104E-32	Mafb
0.771223418	2.388374204	0.0169231	0.044639046	Mroh8
0.273287364	3.949965468	7.8162E-05	0.00034629	Foxs1
0.198373952	10.78446057	4.0763E-27	1.07417E-25	Sirpb1c

1.378799976	3.13190769	0.00173674	0.005913927	Il22
1.228622334	2.558672621	0.01050726	0.029468674	AU019990
0.277224962	6.771585332	1.2738E-11	1.30772E-10	Slc4a11
0.388859235	3.305655061	0.00094755	0.00340143	Il1bos
0.485235027	2.647881765	0.00809978	0.023477561	Papolb
0.172515634	6.127742863	8.9134E-10	7.72326E-09	Ctla2b
1.86807054	2.567539986	0.0102423	0.028855017	Mageb3
0.133497336	40.03972308	0	0	Ifit3
0.168686265	7.353854303	1.9257E-13	2.30313E-12	Pak6
0.145345756	18.82143703	5.0399E-79	5.47369E-77	AW112010
1.891716875	2.367298688	0.01791847	0.046909412	Gm10804
0.20996174	14.01148143	1.3261E-44	6.38669E-43	Cd80
0.883019844	3.504384261	0.00045766	0.001758423	Bex6
0.105859243	24.33318345	8.736E-131	2.5472E-128	Ly6a
0.138653032	11.30256094	1.2745E-29	3.70409E-28	Msrb1
1.533517342	2.872414396	0.00407348	0.012675477	Dio3
0.59596821	2.560444176	0.01045385	0.029343399	Mir223
0.196049075	5.946850828	2.7335E-09	2.25074E-08	Mir702
0.297653387	18.53632007	1.0518E-76	1.06874E-74	Mir147
1.851536487	2.426194987	0.01525807	0.040817011	Oxct2b
0.183736261	10.93775078	7.6064E-28	2.0528E-26	Ass1
0.721149507	4.828159886	1.378E-06	8.09246E-06	Gm25878
0.483370522	3.388145645	0.00070367	0.002592943	Gm23201
1.155666362	2.624841673	0.00866893	0.024917243	Gm24608
0.390332676	5.387550032	7.1425E-08	4.96897E-07	Snord12
0.556556427	3.662330348	0.00024993	0.001009433	Snord89
0.217925519	5.079769476	3.7789E-07	2.39994E-06	F630028O10R
0.244433171	7.391647862	1.4502E-13	1.75873E-12	Psme2b
0.249486521	6.28121978	3.3593E-10	3.04342E-09	Dnm3os
0.12105245	8.521911194	1.5694E-17	2.52254E-16	Gm12854
0.128494214	11.36682934	6.1169E-30	1.79533E-28	Hmga1b
0.102330612	19.5321146	5.8564E-85	7.20654E-83	AW011738
1.329600447	5.618005304	1.9317E-08	1.43748E-07	Ifna2
1.849352266	3.02046641	0.00252386	0.008243637	Ifna16
0.283337735	8.946953025	3.6543E-19	6.41559E-18	Gvin2
0.373196728	16.3664297	3.3214E-60	2.42776E-58	Trim30c
1.445786843	3.056712662	0.00223779	0.007406646	Mup10
0.180760978	21.69692285	2.194E-104	3.7721E-102	Slfn1
0.187393169	11.31669195	1.0849E-29	3.17374E-28	Evi2a
0.239338484	4.971225971	6.6531E-07	4.0916E-06	Gm5150
0.283930913	7.178706691	7.0374E-13	8.05397E-12	Sirpd
0.277340982	6.320268638	2.6111E-10	2.39963E-09	Nlrp12
0.169579375	25.37492343	4.771E-142	1.6623E-139	Igtp
0.386716963	4.652745612	3.2754E-06	1.82108E-05	Hsp25-ps1
0.168214047	21.60824585	1.502E-103	2.5672E-101	Ifi47
0.232550404	16.56708734	1.2052E-61	9.08196E-60	Tgtp2
0.161700602	26.24239037	8.73E-152	3.4955E-149	Tgtp1
0.189517654	9.304233944	1.3496E-20	2.56954E-19	Naip2
1.06225596	3.012998508	0.0025868	0.008428599	Lncenc1
0.091536726	16.13962608	1.3435E-58	9.4597E-57	Arhgap8
0.246860039	26.94046153	7.379E-160	3.4354E-157	Serpina3m
1.847641863	3.111718743	0.00186002	0.00628344	Serpina3j

0.28835744	14.64548526	1.4397E-48	7.86585E-47	Serpina3i
0.321397335	9.320047319	1.1629E-20	2.21874E-19	Ifi27l2a
0.118713062	25.69586576	1.3E-145	4.6502E-143	Ly6c1
0.526491376	2.505050165	0.0122434	0.033748615	Col22a1
1.132768478	2.959194553	0.00308444	0.009859779	Gm14010
0.18366255	6.271474557	3.5764E-10	3.22819E-09	Kcnip3
0.184200696	5.686520544	1.2965E-08	9.86693E-08	Slc28a2b
1.242772754	3.736753093	0.00018641	0.000773023	Gzmc
0.362684832	4.850861878	1.2293E-06	7.28916E-06	
0.48807772	4.88228525	1.0486E-06	6.28618E-06	
0.086894628	21.7684537	4.62E-105	8.1529E-103	Psme2
0.210253783	15.7812597	4.1875E-56	2.73316E-54	Ccr5
0.288079157	3.587103251	0.00033437	0.001318709	Xirp1
0.16418693	6.113897775	9.7227E-10	8.3946E-09	Clec7a
0.107974582	11.5744955	5.5497E-31	1.69562E-29	Gm20661
1.474653644	2.795730309	0.00517826	0.015733603	Lemd1
0.164755465	33.30890604	2.869E-243	3.6653E-240	Ifit1bl1
0.245937278	18.12991142	1.8506E-73	1.78573E-71	Gm43302
0.348915674	8.235631377	1.7861E-16	2.66786E-15	Gbp4
0.474754341	3.421046715	0.00062381	0.002322907	Gm2897
0.276406564	13.7990431	2.5826E-43	1.19449E-41	Ms4a6c
0.246878127	9.266422294	1.9249E-20	3.63396E-19	Gm16026
0.247867433	9.32839482	1.0749E-20	2.05519E-19	Gm7609
0.121516513	11.67731972	1.6646E-31	5.18642E-30	Phyhd1
0.142256584	16.08016805	3.5142E-58	2.42972E-56	H2-T10
0.166135098	11.88960878	1.3403E-32	4.39019E-31	Gm11127
0.131899017	13.35580151	1.0957E-40	4.71056E-39	H2-Q1
0.083062208	14.37019757	7.9604E-47	4.0598E-45	Tmsb10
0.445137368	8.879788645	6.6988E-19	1.15936E-17	Cstdc4
0.621010545	2.419387453	0.01554667	0.041498009	Tm4sf19
0.54355083	3.178422702	0.00148079	0.005126286	Zglp1
1.248926844	3.308792635	0.00093699	0.003366696	Ttll2
0.208757252	11.54039656	8.2544E-31	2.51057E-29	
0.394981922	3.116368095	0.00183094	0.006196723	Gm11951
0.325021466	3.472045727	0.00051651	0.001960919	Gm22489
1.120721563	2.403110728	0.01625626	0.043130308	Gm12608
0.247912001	8.829302737	1.0533E-18	1.80549E-17	Pira2-ps1
0.245278812	5.804327883	6.4625E-09	5.09739E-08	Gm13772
1.806772872	2.500947395	0.01238616	0.034072094	Gm6305
0.411435455	2.836312165	0.00456378	0.014030255	Gm5913
0.410610924	9.357347152	8.1764E-21	1.57458E-19	Gm12551
0.442871591	3.83556827	0.00012527	0.000534533	Bambi-ps1
1.693089437	2.724946908	0.00643118	0.019158568	Gm12307
1.862357224	2.747737052	0.00600081	0.017988352	Gm15953
0.829319702	2.382377304	0.01720126	0.045297054	Gm16181
0.20590666	9.674811204	3.858E-22	7.92462E-21	Pira1
0.243812773	8.30658736	9.8494E-17	1.4894E-15	Gm15931
1.745259351	3.348947969	0.00081119	0.002953045	Gm15495
0.994927725	2.824820397	0.00473071	0.01449196	Gm11620
1.655685314	2.686240187	0.00722611	0.021231948	Gm2673
0.524044644	4.875922609	1.083E-06	6.47922E-06	Dnmt3c
0.189094798	12.73810291	3.6312E-37	1.40969E-35	Gm15753

1.902503772	2.354866434	0.01852936	0.048320087	Gm11212
0.311337772	7.327258556	2.3491E-13	2.797E-12	Gm16464
0.285729439	18.7440492	2.1651E-78	2.30477E-76	Gm12250
1.248294786	2.817219545	0.00484414	0.014814056	Gm13418
0.151554962	6.774855048	1.2453E-11	1.27946E-10	Actr3-ps
0.656226446	2.80954768	0.00496112	0.015145889	Gm4596
0.370002277	2.840691706	0.00450158	0.013854911	Gm12344
0.686314865	2.350038389	0.01877147	0.048875433	Gm12026
0.396376446	5.805829554	6.4048E-09	5.06084E-08	Ccl19-ps1
0.392915298	2.69943488	0.00694573	0.020515997	Naip3
0.399168871	2.758597821	0.00580499	0.01744815	Gm10601
1.503232928	3.628974155	0.00028455	0.001137436	Gm15056
1.870724024	2.68431033	0.00726796	0.021340884	Gm11764
0.259524227	13.95585164	2.8982E-44	1.38094E-42	Gm11427
0.578232712	6.458811862	1.0553E-10	1.00351E-09	Gm12187
0.588746048	2.692037763	0.00710169	0.020915537	Gm12989
0.3696164	4.199218889	2.6784E-05	0.000128395	Gm13302
1.982719829	2.466743052	0.01363482	0.03705101	Gm11956
0.532777214	2.891914021	0.00382903	0.011978715	Gm12057
1.263360695	3.256216786	0.00112908	0.003994799	Gm12186
1.777311728	3.129521267	0.00175091	0.005957638	Gm11597
0.246664224	4.720564579	2.3519E-06	1.33755E-05	Fth1-ps
0.741023169	2.858473223	0.00425685	0.013189451	Mir1901
0.631152565	2.626402802	0.00862926	0.024816533	Gm15419
0.202593525	6.687652086	2.2678E-11	2.2785E-10	A730011C13R
1.560142883	3.731610036	0.00019026	0.000787276	Gm11419
0.966901594	2.478239648	0.01320324	0.036020563	Gm15471
0.492511689	2.611417826	0.00901677	0.025773442	Gm15958
1.511052014	3.829049897	0.00012864	0.000547583	Gm13415
0.096562237	14.42002562	3.872E-47	2.00521E-45	Mir22hg
0.373876063	12.19225443	3.4183E-34	1.19713E-32	4930430E12Ri
0.168415833	7.421750315	1.1558E-13	1.41258E-12	2410004I01Ri
1.726085007	2.395380815	0.01660311	0.04389426	Gm11851
0.273765027	12.04470866	2.0681E-33	7.0225E-32	Gm11772
1.234939801	3.375396322	0.00073709	0.002705336	Gm11738
0.699514799	2.651796315	0.00800648	0.023232223	Gm12198
0.397979972	2.832858865	0.00461337	0.014172973	Gm11476
0.596613473	3.441609419	0.00057826	0.00216757	Gm13074
1.483200807	2.409831164	0.0159599	0.042453187	Gm15229
0.167554676	8.09662748	5.6504E-16	8.24236E-15	Gm15832
0.860239258	2.358190883	0.01836425	0.04794543	Gm8091
0.295867191	5.120120788	3.0534E-07	1.96617E-06	Cd63-ps
0.254342048	18.68421403	6.6552E-78	7.00125E-76	Gm5970
0.359153041	3.188242404	0.0014314	0.004971371	Gm13293
1.281621977	4.190753905	2.7803E-05	0.000132972	Hnf1aos1
0.779590174	3.405918475	0.00065942	0.002444323	Gm13391
0.866335297	4.543701063	5.5275E-06	2.96562E-05	Bach2os
0.571227503	2.923309767	0.00346332	0.01092766	Gm12764
0.774290025	3.790115974	0.00015058	0.000633429	Gm13571
0.444496011	7.94110773	2.0038E-15	2.78956E-14	A330040F15Ri
1.269475002	7.001619074	2.5302E-12	2.7693E-11	Gm16170
0.212848315	11.59325623	4.4585E-31	1.36691E-29	Gm12840

0.714123573	2.541367069	0.01104199	0.030784919	1700007J10Ri
1.009094194	4.931305153	8.1682E-07	4.97322E-06	Gm15932
0.271706365	5.235021427	1.6497E-07	1.10002E-06	Gm8865
0.476712368	4.527687507	5.9633E-06	3.1797E-05	Gvin-ps1
1.368069562	4.15270346	3.2857E-05	0.000155618	Gm15856
0.73106702	2.675386515	0.00746431	0.021855728	Gm16098
0.308514191	8.742147896	2.2872E-18	3.83957E-17	Gm11827
0.431110095	3.073997884	0.00211211	0.007042815	Gm13546
0.122687585	27.19537596	7.367E-163	3.8003E-160	Gm13889
0.430293705	3.550172629	0.00038498	0.001501517	Gm11730
1.642206531	3.04932011	0.0022936	0.007572689	Gm12339
0.183787931	7.075745455	1.4865E-12	1.6553E-11	AI662270
0.356462355	5.39029492	7.0342E-08	4.90002E-07	Gm15133
0.505848627	2.851657779	0.00434919	0.013446048	Alkal1
1.398698662	4.051215843	5.0952E-05	0.000232909	Gm12043
0.749537475	4.216342745	2.483E-05	0.000119691	Gm15990
0.77710147	4.045665164	5.2175E-05	0.000238196	Gm15726
0.857034221	2.624318104	0.00868227	0.024951539	Ctcflos
0.557843864	9.002713727	2.2021E-19	3.92247E-18	Gm13822
1.573803751	3.148199381	0.0016428	0.005628307	Gm15241
0.22411868	5.366804189	8.0144E-08	5.53953E-07	1500009L16Ri
0.469084589	4.043728027	5.2608E-05	0.000240133	B230398E01Ri
0.321121578	12.44811774	1.4318E-35	5.26887E-34	1200007C13R
0.592963754	4.715421371	2.4121E-06	1.36831E-05	Gm22079
0.771627514	2.503886866	0.01228373	0.033823334	Gm22728
0.472061709	4.23951804	2.24E-05	0.0001088	Gm6264
0.291611649	4.050536381	5.11E-05	0.00023353	Gm10171
0.106356752	11.29013655	1.4681E-29	4.253E-28	Rasgef1b
0.395240765	8.432064001	3.3962E-17	5.31545E-16	A530032D15R
1.706061924	2.797334666	0.00515261	0.015666271	Gm16133
1.335533945	5.696960532	1.2196E-08	9.31328E-08	Gm14199
0.173368108	6.487408882	8.7325E-11	8.37834E-10	Gm8113
0.187929145	9.729531107	2.2563E-22	4.67395E-21	Bcl2a1b
0.733052031	2.485507308	0.01293669	0.035399706	Gm8459
0.598483931	4.961047809	7.0114E-07	4.30462E-06	Gm7281
0.206202611	9.155484289	5.4115E-20	9.98402E-19	Pira2
0.565775171	3.405990589	0.00065924	0.002444015	Gm6485
1.683780578	2.555329322	0.01060874	0.029691183	Gm16573
0.775224407	3.744071756	0.00018106	0.000752116	Gm16094
1.292392576	2.389395912	0.01687611	0.044523839	A730090N16R
0.544638685	8.705372499	3.1653E-18	5.27739E-17	Pou3f1
0.281120476	5.050770192	4.4003E-07	2.76771E-06	Gm614
0.654710245	4.238790314	2.2473E-05	0.000109094	Gm16556
0.771407791	2.353884508	0.01857838	0.048423412	4930503B20R
0.120684054	14.39210916	5.8E-47	2.96928E-45	Trim34b
0.142963594	9.71625917	2.5705E-22	5.31664E-21	Ifi203-ps
0.48523866	2.412805748	0.01583025	0.042150113	Pcp4
1.100471068	3.492076782	0.00047928	0.001836215	Gm16315
0.376054178	10.95503334	6.2855E-28	1.70491E-26	Cfb
0.137524442	16.78022858	3.4052E-63	2.69465E-61	Mndal
1.679897096	2.342815883	0.01913883	0.049677612	Gm17034
1.309510395	2.692294665	0.00709622	0.020905254	1700071M16F

0.212027734	7.2553968	4.0049E-13	4.68941E-12	Gm17081
0.481681265	2.692928368	0.00708275	0.020867854	Gm3512
0.558269043	2.855459572	0.00429746	0.013302982	Gm17455
0.080450957	16.22543632	3.3334E-59	2.38458E-57	Gypc
1.564162866	2.521992561	0.01166922	0.032278659	Prlh
1.325152338	3.881722378	0.00010372	0.000449277	Or2h2b-ps1
0.576856762	2.568787873	0.01020549	0.028760636	A430057M04F
1.297178636	3.805525355	0.0001415	0.000598356	Gm6189
1.687327423	3.039479283	0.00236988	0.007801481	Prss47
0.349859538	5.151184715	2.5885E-07	1.68416E-06	Apold1
0.94539551	3.482749456	0.00049629	0.001894088	Gm8237
0.353284426	13.05450391	5.9899E-39	2.47588E-37	Phf11
0.493323971	7.452541967	9.1559E-14	1.12823E-12	F830016B08Ri
1.220768063	6.931203629	4.1727E-12	4.47466E-11	Garin4
0.116235716	30.64680724	2.915E-206	2.4434E-203	Phf11c
2.582517443	3.367512236	0.0007585	0.002777427	Serpina3l-ps
0.220444692	9.0443539	1.5055E-19	2.70511E-18	Gm2619
0.448827564	3.860742742	0.00011304	0.000486443	Gm3248
1.275900477	3.248287761	0.00116102	0.004100785	Spata31d1b
1.607328771	2.804823006	0.00503442	0.015350465	Gm8810
1.615548877	2.514644431	0.01191525	0.032898154	Gm17171
0.534994409	3.178238144	0.00148173	0.005128889	Gm3739
0.206757382	5.187088477	2.1361E-07	1.40585E-06	Gm17167
0.091507713	25.24529653	1.276E-140	4.3316E-138	Gm6548
0.188036478	22.1638757	7.666E-109	1.5462E-106	Serpina3e-ps
0.388047333	3.454739256	0.00055083	0.002073035	Gm8206
0.429720973	2.388992125	0.01689466	0.044568421	Gm17092
0.261833342	18.56884349	5.7427E-77	5.9251E-75	Phf11b
0.589541247	2.512125846	0.01200063	0.03311344	Apol11b
0.163784548	8.290787128	1.125E-16	1.69549E-15	H2-Q2
1.55321863	2.80006042	0.0051093	0.015548746	Gm17230
0.595213264	2.786457078	0.00532877	0.016136078	Gm3095
0.787124718	2.499328054	0.01244291	0.034203649	Gm8425
0.297711219	9.683107663	3.5574E-22	7.3126E-21	Gm2564
0.269601416	4.978744598	6.3998E-07	3.94669E-06	Gm17709
0.093051019	11.92747198	8.5119E-33	2.81555E-31	Tmsb10b
0.76473649	2.375767847	0.01751248	0.046003693	Gm6611
0.237800647	18.46890646	3.6745E-76	3.69186E-74	Gbp11
0.164319155	6.147537306	7.8695E-10	6.86306E-09	Peg10
1.058222868	2.430504916	0.0150778	0.04043558	Gm17089
0.560818118	3.164594294	0.00155299	0.005350102	Gm3696
0.981282943	2.694526922	0.00704886	0.020786282	4833427F10Ri
0.467685485	2.866768749	0.00414686	0.012884369	Gm45351
0.342222072	5.428073055	5.6966E-08	4.02254E-07	Gm20529
0.140331097	14.47632864	1.7099E-47	8.95891E-46	Gm7030
0.464313714	5.966113395	2.4297E-09	2.01233E-08	Gm19684
0.361225203	5.765359559	8.1484E-09	6.35987E-08	Gm8752
0.780044073	2.889604728	0.00385726	0.012057212	Gm20412
0.354048952	6.729626007	1.701E-11	1.7291E-10	Gm8801
0.832074072	2.843179743	0.00446659	0.01376458	Smim40
0.849824249	3.120276668	0.00180681	0.00613073	BC023719
0.239231424	8.777687838	1.6687E-18	2.8314E-17	A930015D03R

1.619279914	3.225356838	0.00125816	0.004411362	Vhl-ps1
1.382998883	3.281515012	0.00103251	0.003675928	Gm20406
0.740515816	2.358496278	0.01834914	0.047915325	Cyp21a2-ps
0.411787402	4.959145483	7.0804E-07	4.34145E-06	Gm20400
0.490952395	5.204491381	1.9453E-07	1.28659E-06	Gm20394
0.273243826	13.38889361	7.0219E-41	3.03822E-39	Gm20547
1.184090778	2.346479713	0.0189517	0.049263396	Garin5b
0.418148495	5.888915299	3.8874E-09	3.15436E-08	Gm8750
0.233163181	4.450290991	8.5754E-06	4.45562E-05	BC051226
1.183814388	2.349495336	0.01879888	0.048937287	Btnl6
0.539684652	3.159649685	0.00157959	0.005433966	Khdc3
0.329807383	3.240670099	0.00119249	0.004202544	9130230N09R
0.741909157	2.396388358	0.01655754	0.043812633	Snord87
0.926604893	3.419404521	0.00062758	0.002336001	Gm20644
0.675841816	2.873921706	0.00405409	0.012622463	Gm22394
0.444121903	3.902560883	9.518E-05	0.000414969	Gal3st2b
1.656082947	3.035844741	0.00239863	0.007887424	Gm33933
0.155998731	7.262762964	3.7926E-13	4.4545E-12	Evi2b
0.503598865	7.453487527	9.0905E-14	1.12223E-12	Mrgpra2a
0.554541905	5.339130472	9.3393E-08	6.4158E-07	Gm21762
0.33180604	10.38801945	2.8113E-25	6.84355E-24	Ccl19-ps3
0.431180108	2.579651341	0.00989001	0.027965578	Ap3s1-ps2
0.387260146	5.13338099	2.8458E-07	1.84224E-06	Gm12424
0.648441128	2.522185255	0.01166283	0.032264308	Gm3373
0.437862535	2.742996944	0.00608813	0.018221583	Gm3788
0.329897081	7.227273535	4.9279E-13	5.72273E-12	
0.40771122	3.938422591	8.2019E-05	0.00036212	Gm3468
0.345177847	4.638541752	3.5088E-06	1.94127E-05	Gal3st2
0.766028196	2.91422313	0.00356575	0.01122182	1500015L24Ri
0.26991048	12.92155833	3.4018E-38	1.35196E-36	BC147527
1.07927642	3.897607865	9.7148E-05	0.000422653	
0.340235731	2.948916305	0.0031889	0.010147748	Ppp1r2-ps1
0.732430492	3.546585432	0.00039026	0.001519899	
0.279939465	7.512141842	5.8168E-14	7.26785E-13	
0.232450525	8.826104447	1.0838E-18	1.85429E-17	Sirpb1b
0.691995169	2.626329987	0.00863111	0.024817701	Gm36079
1.482685133	2.812192446	0.00492051	0.015033881	E030018B13Ri
0.758814499	3.033211787	0.00241966	0.007944259	
1.923889043	2.855827531	0.00429248	0.013290643	Ifna9
0.630599803	3.066596989	0.00216511	0.007197165	Gm3488
0.380316191	6.222371255	4.897E-10	4.35275E-09	Gm12407
0.875639467	3.273048724	0.00106394	0.003781806	Gm21860
0.267247382	9.126310844	7.0873E-20	1.29867E-18	Gvin-ps5
0.917462884	3.211053949	0.00132249	0.004617616	A630023A22R
1.452293264	4.737692787	2.1617E-06	1.23485E-05	Ifna1
0.671680255	3.315843955	0.00091367	0.003290825	D13Ertd608e
0.195225642	10.80525625	3.2505E-27	8.61635E-26	Gm21188
0.41407248	5.985447041	2.158E-09	1.79837E-08	Csta2
0.336109173	7.341893671	2.1059E-13	2.51358E-12	Gvin-ps3
0.451610838	5.652648228	1.5799E-08	1.19022E-07	
0.246875286	7.523472111	5.334E-14	6.68962E-13	Sirpb1a
0.359749462	3.096267288	0.00195974	0.006592086	Ppp1r2-ps6

0.110376632	10.04094182	1.0071E-23	2.26834E-22	Cdkn2d
0.810021335	3.070380528	0.00213786	0.007116303	Gm10409
1.379138491	4.818791362	1.4443E-06	8.46514E-06	Ifna5
0.4496991	8.491527888	2.0394E-17	3.24872E-16	Mrgpra2b
0.14348651	14.01392949	1.2812E-44	6.18135E-43	Psmb9
0.745421365	2.342586854	0.01915058	0.049698496	Gm3002
0.220844071	6.611150091	3.8135E-11	3.7624E-10	Gm5859
0.184769748	5.696031931	1.2263E-08	9.3588E-08	A330023F24Ri
0.206108555	9.961553328	2.2453E-23	4.9249E-22	E230013L22Ri
0.488545057	3.097999567	0.00194832	0.006556963	4930509G22R
0.64963561	4.280839217	1.8619E-05	9.1596E-05	A230028O05R
0.094993207	14.04379929	8.4081E-45	4.07142E-43	9530082P21R
0.801129817	2.93304774	0.00335652	0.010625688	Gm26759
1.206056208	3.005648997	0.00265015	0.008605841	Gm10425
1.683683511	2.928967194	0.0034009	0.01075476	Peak1os
0.388983785	3.614080075	0.00030142	0.001198604	Gm26885
0.567304136	4.092310263	4.271E-05	0.000198011	1110002J07Ri
1.098032636	4.139378039	3.4825E-05	0.000164271	Gm3764
0.217382904	12.74483648	3.3309E-37	1.29533E-35	9330175E14Ri
1.966762113	2.745463012	0.00604256	0.018098208	Gm26802
0.626722125	3.00357095	0.00266831	0.00865959	Gm16897
1.109418556	2.358920793	0.01832817	0.047865208	Gm26877
0.357897871	9.829809373	8.3777E-23	1.78083E-21	Mir155hg
0.194983604	12.57092143	3.0515E-36	1.14648E-34	Gm6277
0.389905636	4.940927173	7.7752E-07	4.74471E-06	Gm26902
0.169646131	12.67735426	7.8952E-37	3.03E-35	Gm26797
0.341113292	2.948833318	0.00318976	0.01014927	E230029C05Ri
0.819506396	3.098443617	0.0019454	0.006548789	Gm26535
0.425459425	4.377251464	1.2019E-05	6.1097E-05	5730420D15R
0.263942689	3.794999988	0.00014764	0.000621576	4833407H14R
0.284441878	10.05847129	8.4297E-24	1.9035E-22	Gm16685
1.584089832	3.465375048	0.00052949	0.002003691	Gm807
0.611904141	4.372918018	1.226E-05	6.22286E-05	Gm26682
0.206832643	11.31133427	1.1532E-29	3.36265E-28	Gm27027
1.63367559	3.07059728	0.00213631	0.007112905	Gm5300
1.079764541	2.694435306	0.0070508	0.020789711	BC051537
0.085829639	13.22966487	5.9151E-40	2.50675E-38	Gm28043
1.448918816	2.933944648	0.00334684	0.010597533	2010110E17Ri
1.231835762	6.893905935	5.4281E-12	5.76461E-11	Mir6972
0.122376234	11.88700954	1.3827E-32	4.52342E-31	C1rb
1.398683377	2.600776648	0.0093013	0.026496405	Gm27167
0.252330068	10.594319	3.1664E-26	8.05893E-25	Gm27252
0.541278048	3.221710437	0.00127428	0.004463219	Gm27179
0.226393494	15.39059503	1.8928E-53	1.18087E-51	Gvin-ps4
1.085799552	2.863328028	0.00419216	0.013008556	Mir7035
0.126560826	9.782535924	1.3381E-22	2.81106E-21	Gm28035
0.389833307	3.690646709	0.00022368	0.000913606	Mir6978
1.065043013	2.737359166	0.00619346	0.018495586	Mir7062
0.168457039	7.714401896	1.2155E-14	1.60469E-13	Mir8114
0.226558324	16.61727323	5.2256E-62	3.99378E-60	Gvin-ps2
0.111752201	10.76698374	4.9288E-27	1.29375E-25	Gm28052
0.335508464	3.183447656	0.00145532	0.005049215	Ms4a14

0.73729884	2.813087115	0.00490684	0.014995531	Gm28857
0.297973382	9.76471671	1.5956E-22	3.33096E-21	Gm29284
1.241081522	6.19130431	5.9668E-10	5.27054E-09	Gm5960
0.235770111	6.701629999	2.0611E-11	2.08015E-10	Gm7160
0.235508446	5.903551676	3.5576E-09	2.89726E-08	Rbm3-ps
1.30884785	4.793135294	1.6419E-06	9.54561E-06	Gm2396
0.181173352	8.605792531	7.5791E-18	1.23522E-16	Bcl2a1d
1.905832981	3.040537164	0.00236157	0.007776035	Ifnab
0.396403846	4.201526664	2.6512E-05	0.000127139	Gm28856
0.50394357	8.396548693	4.5979E-17	7.11327E-16	1700025N23R
1.435597904	4.197152881	2.7029E-05	0.000129526	A530053M12F
0.412325876	7.554877421	4.1925E-14	5.31016E-13	Gm28068
1.084169908	2.698885763	0.00695721	0.020547615	2310069B03R
0.525464687	2.711902851	0.00668982	0.019829956	6030407O03R
1.358210571	5.562601596	2.6578E-08	1.94965E-07	1700016G22R
0.442590779	3.556965389	0.00037516	0.001466935	Gm29292
1.038109153	3.405425417	0.00066061	0.002448403	Gm19589
0.1558129	7.851077861	4.1248E-15	5.62251E-14	Gm29094
1.973473927	2.426611492	0.01524057	0.040790006	Gm29519
1.841710392	2.59196074	0.00954307	0.027110271	1700007E05Ri
1.676990097	3.556955057	0.00037518	0.001466935	Ifna6
0.992614295	4.718481657	2.3761E-06	1.35046E-05	Gm28347
0.244776265	9.272838251	1.8126E-20	3.42664E-19	Gm18342
1.205403219	2.539601073	0.0110979	0.030915077	Gm29187
0.264551802	14.47349753	1.7818E-47	9.31729E-46	Ms4a4a
0.260022721	6.502785515	7.8846E-11	7.61111E-10	Gm19412
0.787453713	2.430947105	0.01505941	0.040394342	Gm29571
0.151138959	19.79938501	3.0135E-87	3.81322E-85	Gm28177
1.574661367	3.061799351	0.00220011	0.007296343	1700072G22R
1.208285603	3.280587618	0.00103591	0.003686976	3830432H09R
0.354241496	7.094259225	1.3005E-12	1.45602E-11	Gm2427
1.322575055	3.392254405	0.0006932	0.002557529	Gm28268
1.364344964	2.491071587	0.01273585	0.034912807	Gm20125
0.188962772	8.621598565	6.6026E-18	1.08198E-16	Bcl2a1a
0.58485948	7.359850066	1.8412E-13	2.20891E-12	Ly6a2
1.613591503	2.665054945	0.00769757	0.022459771	1700011B04R
1.426458221	2.903184501	0.00369389	0.011592452	Gm38050
1.022466563	2.57308466	0.01007965	0.028438875	Gm37674
1.28557307	2.841130792	0.00449539	0.013839024	Gm2065
1.506678807	2.634381869	0.00842906	0.024332082	5830415G21R
0.357367942	6.257784516	3.9048E-10	3.51515E-09	9430034N14R
0.674370178	4.5081159	6.5406E-06	3.46412E-05	Gm37347
0.394781965	3.511440671	0.00044568	0.001715097	E330011M16R
0.340176469	10.73180092	7.2176E-27	1.88162E-25	Gm18752
0.443612369	8.456114523	2.7643E-17	4.36213E-16	Gm37087
1.351358976	4.365543322	1.2681E-05	6.41473E-05	Gm37800
0.705134709	2.559593567	0.01047946	0.029403002	Gm37755
0.457774293	8.468239503	2.4913E-17	3.94519E-16	Gm37752
0.479582297	3.841237001	0.00012242	0.000523335	Gm7019
0.358292664	4.611398201	3.9997E-06	2.19284E-05	9330121J05Ri
0.44042235	2.754462655	0.00587886	0.017652372	Gm38218
0.775428824	6.490591364	8.55E-11	8.20911E-10	Gm18445

0.374558316	2.989640853	0.00279306	0.009017515	Gm37352
0.430854271	2.469769685	0.01352001	0.036787473	Gm19026
0.790211284	2.979508549	0.00288711	0.009292101	Gm20056
0.551114292	2.576689077	0.00997516	0.028179626	Gm37120
1.081008396	3.034326373	0.00241073	0.007921407	Gm38275
0.400860441	3.127409247	0.00176354	0.005997565	Gm37689
0.44208046	3.530886871	0.00041417	0.001604867	Gm37660
0.738719033	3.088879649	0.00200913	0.006732901	Gm18407
0.365300454	9.108348136	8.3646E-20	1.52853E-18	Gm4610
0.235072548	5.72012308	1.0645E-08	8.20323E-08	Gm43814
0.792198216	3.396694915	0.00068205	0.002520549	Gm4961
0.997008631	3.12870041	0.00175581	0.005973547	Gm42941
0.809275376	3.165489902	0.00154822	0.005334947	Gm42503
0.235820957	18.79119691	8.9146E-79	9.60413E-77	Gbp6
0.438962435	5.330949837	9.77E-08	6.69304E-07	Gm42462
0.538157733	2.790808239	0.00525766	0.015946019	Gm42937
1.540835182	3.869592162	0.00010902	0.00047048	Gm8953
1.394631693	5.252977011	1.4966E-07	1.0042E-06	1700016F12Ri
1.186764144	2.489750417	0.01278328	0.035028023	Gm42917
0.833407686	2.965621733	0.00302072	0.009674519	Gm43622
0.742032145	2.373605981	0.01761534	0.046228627	Gm43652
0.273473917	16.86171979	8.6048E-64	6.93193E-62	Gbp10
0.363851868	2.771668122	0.00557699	0.016830716	Mir142
1.320010306	5.703479633	1.1739E-08	8.97662E-08	Gbp2-ps
0.191732736	16.44305835	9.4051E-61	6.98892E-59	Gm43802
0.713275017	3.004091099	0.00266376	0.008645845	Gm42457
0.424155021	5.321968624	1.0265E-07	7.014E-07	Gm42428
0.539077985	2.452792597	0.0141752	0.038286753	Gm42603
0.240743211	19.3867344	9.988E-84	1.18557E-81	Gbp5
0.198844383	5.612111425	1.9987E-08	1.48444E-07	Gm42674
0.385094508	2.645943994	0.00814633	0.023596605	Gm43272
0.728728638	3.468438286	0.00052349	0.001983192	Gm43327
0.362662019	6.252081412	4.0502E-10	3.64109E-09	Gm43305
0.448913021	4.211443938	2.5374E-05	0.000122207	Gm42141
0.289191814	9.18236115	4.2174E-20	7.81327E-19	Gm42793
0.737260191	5.321387864	1.0298E-07	7.03106E-07	Gm4734
0.466418787	3.296844357	0.00097778	0.003499645	Gm42918
0.669894028	3.169349867	0.0015278	0.005269332	Gm43464
1.843200287	2.829859461	0.00465685	0.01429179	Gm43674
1.064724637	3.039553836	0.00236929	0.007800507	Kif19b
0.543825895	5.967968609	2.4023E-09	1.99144E-08	Gm43181
0.114186872	16.97334786	1.2934E-64	1.06109E-62	Gm20559
2.020660093	2.542476197	0.01100701	0.03070015	1810017P11R
1.500566493	4.394034271	1.1127E-05	5.68214E-05	Gm7492
0.10178214	19.16513842	7.2364E-82	8.22558E-80	Gm20186
0.235924155	4.518601531	6.2249E-06	3.30739E-05	Dancr
0.570651137	3.602718297	0.00031491	0.001247997	Gm43633
0.195651302	7.877285056	3.3457E-15	4.59325E-14	Gm43196
0.568093623	4.837583402	1.3143E-06	7.75213E-06	Gm43123
1.184637166	2.499214078	0.01244691	0.034211147	Gm36840
1.62849191	3.472379314	0.00051587	0.001959605	Gm43069
0.215800431	6.095709631	1.0895E-09	9.36486E-09	Gm43197

1.050949969	3.359969925	0.00077951	0.002848539	Gm43660
0.299014986	3.82111519	0.00013285	0.000564075	Gm44421
0.776644718	2.877835384	0.00400414	0.012479966	2610300M13F
1.254343169	4.888154354	1.0179E-06	6.11398E-06	Gm44165
0.783262742	4.00435616	6.2187E-05	0.00028042	1700003I16Ri
1.634905059	3.357429027	0.00078671	0.00287211	Gm44096
0.197582605	8.241932299	1.6945E-16	2.53525E-15	Gm18840
1.887180082	2.722136653	0.00648613	0.019298687	4933406J09Ri
1.056438739	3.451775931	0.00055691	0.00209415	C530044C16R
0.966295555	2.54100854	0.01105332	0.030813303	2900060B14R
0.681262002	2.947706578	0.00320141	0.010180219	Gm44013
0.955792502	3.028092017	0.00246103	0.008070859	Gm44401
0.285986036	12.47287756	1.0497E-35	3.89463E-34	Gm10388
0.26473669	3.783772576	0.00015447	0.000648378	Gm44066
0.855770681	3.114921402	0.00183994	0.006225024	Gm43890
0.298282084	5.219767492	1.7915E-07	1.19133E-06	Gm7932
0.633235403	4.284158713	1.8343E-05	9.03552E-05	Gm44067
0.169432811	23.38173989	6.556E-121	1.6436E-118	Gm45193
0.588662886	3.011099196	0.00260304	0.008472349	9930120I10Ri
1.550795907	3.103857966	0.00191015	0.006439825	Gm43913
0.448132206	6.791091068	1.1129E-11	1.15045E-10	Gm44292
1.440598939	3.041309109	0.00235552	0.007761694	Gm45205
1.576116046	2.428537276	0.01515987	0.040602894	4931431B13R
0.374063408	6.817409594	9.2697E-12	9.65327E-11	Gm45053
0.43214558	2.875582769	0.00403282	0.01256061	Gm45700
0.160471005	11.12829054	9.1371E-29	2.56393E-27	Gm49368
1.268859617	4.068216634	4.7374E-05	0.000217837	Siglecl1
0.228920446	5.901715594	3.5974E-09	2.92792E-08	2310043P16R
0.308191007	6.978061603	2.9928E-12	3.25172E-11	Gm39090
0.419017216	6.661235113	2.7154E-11	2.70789E-10	Ccdc194
0.902976323	3.408310573	0.00065366	0.002425339	Gm38405
1.6560042	3.13274763	0.00173178	0.005898528	Gm45145
0.861152367	2.447198674	0.01439715	0.038835377	Gm30873
0.276480925	7.843408782	4.3848E-15	5.94972E-14	Apoc2l
0.163152044	6.498997518	8.0857E-11	7.7884E-10	Gm45698
0.771979355	2.4516312	0.01422103	0.038402802	Gm45073
0.220021177	5.822460281	5.7988E-09	4.60638E-08	Gm45222
1.910445112	2.626701347	0.0086217	0.024797431	Gm44956
1.833224596	2.791438755	0.00524743	0.015920326	Gm8463
0.8614893	2.525721097	0.01154611	0.032007436	Gvin-ps1
1.526662565	4.35172952	1.3507E-05	6.79927E-05	Gm8667
0.403980788	9.003449635	2.1873E-19	3.90144E-18	Gm45418
0.690455413	2.794421644	0.00519926	0.015788482	Gm45640
0.531947737	4.038852672	5.3713E-05	0.000244803	Gm45441
0.087004141	14.07746816	5.2248E-45	2.55303E-43	Gm45717
0.742168151	5.069475977	3.9891E-07	2.52387E-06	Gm45471
0.136786538	14.06767115	6.0013E-45	2.91652E-43	Pde2a
1.470134938	4.492962907	7.0239E-06	3.70183E-05	Gm33594
0.477513767	4.905093071	9.3383E-07	5.63196E-06	Gm20100
0.902621005	2.731400246	0.00630658	0.01880618	Gm45363
0.183048257	15.29139192	8.7265E-53	5.35691E-51	Gm42031
0.972906144	2.86799013	0.00413088	0.012837708	A630001O12R

0.195233756	7.589473313	3.2121E-14	4.09541E-13	Gm39822
0.7627335	6.151340564	7.6831E-10	6.71137E-09	Iqcn
0.970478236	2.853098675	0.00432952	0.013389859	Gm20735
0.71520805	4.221128123	2.4308E-05	0.000117304	Gm7684
0.296779628	9.396585697	5.6362E-21	1.09643E-19	Gm31718
0.477111817	2.54326925	0.01098206	0.030643297	Gm48362
1.458048764	4.087912273	4.3527E-05	0.00020153	Gm35028
1.650648637	3.220759211	0.00127852	0.004475721	Gm49427
0.624800579	2.953992131	0.00313692	0.010007256	Gm48065
0.402803685	12.07617925	1.4113E-33	4.84125E-32	Gm6545
0.235614431	12.04741075	2.0014E-33	6.80471E-32	Gm5831
0.379172036	4.793295819	1.6406E-06	9.54079E-06	Gm39321
0.383960768	6.634043717	3.2661E-11	3.24028E-10	Gm48275
0.959624344	3.298658526	0.00097148	0.003479429	Gm39307
1.541719724	4.35610132	1.324E-05	6.67497E-05	Gm48483
0.492460712	2.349115308	0.01881808	0.048973008	A830035O19R
2.049701573	2.584366149	0.00975582	0.02762689	Gm47775
1.743820188	3.235278049	0.00121524	0.004274304	Gm39377
1.26108738	3.230583423	0.00123538	0.004340003	1700019L13Ri
1.818655585	2.369359308	0.01781893	0.046680732	Gm7229
0.918586409	2.969531739	0.00298254	0.009571921	Gm17749
0.556655578	6.25677579	3.9302E-10	3.53558E-09	1190001M18F
0.569225428	5.711224941	1.1217E-08	8.60195E-08	Gm49751
0.844734086	4.003713215	6.2356E-05	0.000281042	Gm5176
0.203773013	6.221992909	4.9088E-10	4.36182E-09	Gm47218
0.172174956	20.03466249	2.747E-89	3.648E-87	Lilrb4b
0.161918589	18.34424845	3.6697E-75	3.63256E-73	Lilrb4a
2.018991558	2.436975301	0.01481069	0.039811906	Gm47948
1.402589	2.76364425	0.00571598	0.01720374	Gm40761
0.708563953	2.380670599	0.01728116	0.045485118	Gm47766
0.360371972	3.531682424	0.00041292	0.001600972	Gm47761
0.633812127	4.028061918	5.6239E-05	0.000255401	Gm29684
1.3878367	2.799282091	0.00512164	0.015581652	Gm19801
0.546275803	4.298999217	1.7157E-05	8.49182E-05	Gm33091
0.13030467	10.49102961	9.4988E-26	2.34419E-24	4933412E12Ri
1.45492031	2.933053774	0.00335646	0.010625688	4930459C07R
0.413423078	3.065094085	0.00217602	0.007229847	Gm38407
0.40056189	8.014671406	1.1043E-15	1.57661E-14	Gm46224
0.631517994	4.020042299	5.8188E-05	0.000263584	Gm47567
1.879532932	2.879879782	0.00397827	0.012405094	Gm18983
1.34056491	3.13944371	0.00169269	0.005785943	Gm6093
0.829059432	2.440620144	0.01466207	0.039458731	Gm33682
1.543074693	4.000476976	6.3215E-05	0.000284722	Gm47799
1.461623602	4.356492202	1.3216E-05	6.66431E-05	Gm36862
0.159248316	15.05712102	3.1E-51	1.80781E-49	Gm19951
0.593723704	2.752114759	0.00592118	0.01777148	Ly6e-ps1
1.912210661	2.503831889	0.01228564	0.033823334	Gm47847
0.516404631	7.217049668	5.3128E-13	6.14841E-12	B230303A05R
0.867325459	4.255167311	2.0889E-05	0.000101831	BB123696
1.373609816	3.658984719	0.00025322	0.001021011	4933412O06R
1.637374435	2.599241171	0.00934301	0.026606752	A030014E15Ri
0.379422485	5.561981433	2.6673E-08	1.95552E-07	Gm40909

1.465324662	3.992821351	6.5292E-05	0.000293288	Gm32089
0.734886583	5.249464513	1.5254E-07	1.022E-06	Gm47662
0.694472287	2.524683013	0.01158027	0.032073645	Gm10734
0.519046317	3.410579204	0.00064825	0.002406583	Gm48583
0.955253616	2.808062305	0.00498406	0.015210734	Gm9042
1.089282414	2.549132306	0.01079913	0.03017054	Gm48569
0.206556748	10.34470655	4.4227E-25	1.06311E-23	Gm36161
0.171648339	5.898586449	3.6663E-09	2.97946E-08	Gm49392
0.52357565	9.918441041	3.4612E-23	7.51214E-22	Gm47242
0.608672026	2.616057195	0.00889517	0.025488326	Gm5790
0.231067728	4.490009353	7.122E-06	3.75059E-05	Gm20784
0.819684226	4.842587608	1.2816E-06	7.57936E-06	4933432I03Ri
0.521726174	3.650700161	0.00026153	0.001051988	Gm49041
0.121234909	8.405826468	4.2486E-17	6.59564E-16	Dpep2
0.237639774	8.19275878	2.5531E-16	3.78597E-15	Eef1akmt4
0.252612017	6.178769048	6.4603E-10	5.68399E-09	Eef1ece2
0.117087456	25.19818636	4.193E-140	1.3888E-137	Pnp
1.603580664	2.566030546	0.01028698	0.028959853	4930445E18Ri
0.922375112	5.305760388	1.122E-07	7.64734E-07	Gm19510
1.3589369	4.093410767	4.2507E-05	0.000197114	Gm36107
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0.724976923	4.284833128	1.8288E-05	9.01147E-05	Gm6553
1.324724234	5.808537003	6.3021E-09	4.98556E-08	Gm29686
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1.447098577	4.798930721	1.5951E-06	9.29643E-06	Gm7450
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0.843522267	4.821760591	1.423E-06	8.34372E-06	Gm41556
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1.486607569	4.697030681	2.6397E-06	1.48892E-05	Gm18425
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0.384970001	6.142190333	8.1391E-10	7.08437E-09	Gm50471
0.207199011	7.903920972	2.7026E-15	3.72948E-14	Gm10599
0.180859104	23.9330731	1.387E-126	3.7576E-124	Gm56487
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0.743697499	4.375242903	1.213E-05	6.1639E-05	Gm7582
0.358053298	3.76352917	0.00016753	0.000698837	Muc19
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0.293861898	6.342022498	2.2677E-10	2.09768E-09	Mir7676-1
0.537089595	2.970222239	0.00297584	0.009554756	Snord16a
0.271968	7.227764945	4.9101E-13	5.70453E-12	Mir7676-2
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0.938376859	2.364959305	0.01803205	0.04716535	Gm56754
1.736473855	2.374592251	0.01756835	0.046123355	Gm33033
0.680755761	3.85316238	0.0001166	0.000500795	Gm56963
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0.386054344	7.436727348	1.0321E-13	1.26657E-12	Gm9975
1.540141003	2.584200978	0.00976049	0.027637207	Gm56966
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0.612886558	5.515287347	3.4821E-08	2.51917E-07	Gm57030
0.312673125	4.431436297	9.3607E-06	4.84397E-05	Gm56768
0.281247469	14.10562226	3.5068E-45	1.72613E-43	Gm56663
0.542096675	5.777242579	7.5935E-09	5.93885E-08	Gm57300
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0.317407948	6.244959347	4.2391E-10	3.80074E-09	Gm54310
0.118084717	16.72131718	9.1671E-63	7.1487E-61	Gm56730
0.267283973	6.386632043	1.6958E-10	1.58672E-09	Gm6403
0.200650604	8.035412038	9.3265E-16	1.33864E-14	Hmga2-ps1
0.133282409	14.39984817	5.1857E-47	2.66499E-45	Gm56555
0.367870807	3.084093469	0.00204173	0.006833633	Gm57233
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0.562798473	3.516325126	0.00043756	0.001687238	Gm56997
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0.277868266	7.380716909	1.5744E-13	1.8999E-12	
0.51387723	4.616900749	3.8951E-06	2.1414E-05	
0.334602193	9.353304415	8.4951E-21	1.63362E-19	Slfn10-ps
0.192397777	10.03774961	1.0402E-23	2.33901E-22	
0.589369492	4.236591145	2.2694E-05	0.000110088	
0.297391567	8.770021989	1.7863E-18	3.02332E-17	Ccl19-ps2
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0.240812637	9.257814381	2.0866E-20	3.93359E-19	
0.198225204	19.38382726	1.0569E-83	1.24897E-81	Serpina3h
0.428987963	9.967142208	2.1225E-23	4.67469E-22	Ly6a2
0.167326815	11.22613331	3.0347E-29	8.68826E-28	
0.143793327	12.05959487	1.7263E-33	5.89182E-32	H2-K2
0.575585966	7.294435828	2.9991E-13	3.5427E-12	
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0.178268495	9.691107598	3.2894E-22	6.77221E-21	Gm54952
0.34461572	4.571874503	4.8338E-06	2.61646E-05	Gm55351

1.626276004	3.598441874	0.00032013	0.001266823	Gm55268
0.474692157	5.226679623	1.7258E-07	1.14937E-06	Gm55515
0.673403651	2.553841498	0.01065417	0.02980902	Gm56477
0.404049341	3.690357128	0.00022394	0.000914507	Gm56476
0.244063882	10.10965305	5.0061E-24	1.14586E-22	Gm55849
0.188252153	5.371003213	7.83E-08	4.16144E-06	Ccnd2
0.407422875	11.45497157	2.2204E-30	3.96082E-28	Slfn4
0.192938397	7.774629285	7.5669E-15	7.79041E-13	Trim25
0.204593911	22.64888534	1.431E-113	6.4449E-110	Mx1
0.144886811	14.53256948	7.5341E-48	2.56115E-45	Lgals9
0.27612571	3.660833513	0.0002514	0.004552164	Col1a1
0.233711596	4.724442363	2.3075E-06	9.09711E-05	Kmt2a
0.174853164	11.28795076	1.505E-29	2.60735E-27	Mov10
0.156999657	12.1418629	6.3367E-34	1.28278E-31	Daxx
0.164877701	9.195667184	3.7267E-20	4.66283E-18	Irf9
0.348465396	3.394819135	0.00068674	0.009024789	Fosb
0.233018095	4.916994648	8.7883E-07	3.89039E-05	Nfat5
0.217334635	5.368374597	7.9449E-08	4.21012E-06	Rasa4
0.160325656	7.689367947	1.4786E-14	1.4883E-12	Rnf114
0.196761207	13.51370285	1.2982E-41	3.4911E-39	Hap1
0.199697375	7.214183466	5.4259E-13	4.93726E-11	Ifi35
0.160474076	7.749215629	9.2462E-15	9.41179E-13	Mlkl
0.228495076	5.226105097	1.7312E-07	8.7861E-06	Csf1
0.245599858	4.996203242	5.847E-07	2.68055E-05	C4a
0.24690708	5.64179587	1.6829E-08	9.94099E-07	Fcgr1
0.247316577	9.864215794	5.9498E-23	8.6449E-21	Cd274
0.197072104	16.47518511	5.5319E-61	2.93142E-58	Dhx58
0.422942853	2.859666222	0.00424087	0.028521005	Hnf4a
0.220958605	4.786900453	1.6938E-06	6.91987E-05	Dync1h1
0.207495683	11.16441431	6.0891E-29	1.02531E-26	Slfn3
0.177517809	8.808729237	1.2657E-18	1.53051E-16	Slc25a22
0.246478197	4.207563533	2.5814E-05	0.00077774	Crybg1
0.342530565	4.234590349	2.2897E-05	0.000695671	Pde7b
0.339974291	3.533153383	0.00041063	0.006411088	Nav3
0.173429077	20.43679972	7.8736E-93	1.09122E-89	Cmpk2
0.182502656	22.24633237	1.224E-109	3.6755E-106	Rsad2
0.261955467	3.982782582	6.8113E-05	0.001688427	Ccl11
0.183789665	7.258540103	3.9129E-13	3.61532E-11	Rnf135
0.226830469	6.558384175	5.4394E-11	4.20607E-09	Ankfy1
0.603936219	3.906334506	9.3707E-05	0.002155178	Ifi27l2b
0.161211177	6.49202904	8.4688E-11	6.35759E-09	Erap1
0.193531371	7.154311128	8.4094E-13	7.46367E-11	Epsti1
0.510203526	4.059104399	4.9261E-05	0.00129568	Olfm4
0.295206716	3.438278272	0.00058543	0.008144877	Gfra2
0.305178292	8.498621091	1.9186E-17	2.23011E-15	Acod1
0.282147973	4.550736635	5.3458E-06	0.000191865	Slc7a8
0.264827692	5.011588139	5.3983E-07	2.50671E-05	Apod
0.159679173	8.742540269	2.2793E-18	2.71957E-16	Ly6e
0.207290894	4.902537347	9.4607E-07	4.15738E-05	Zbtb20
0.183379623	5.933630292	2.9631E-09	1.87319E-07	Usp25
0.16227118	13.47417724	2.2195E-41	5.88058E-39	Parp9
0.260066512	4.2545042	2.0951E-05	0.000648589	Kcnk5

0.249233979	15.77997912	4.2733E-56	1.87785E-53	Mx2
0.341197658	3.654505124	0.00025768	0.004624227	Pde10a
0.162266465	7.492461202	6.7594E-14	6.51251E-12	Enpp4
0.171377398	7.81666957	5.4239E-15	5.61625E-13	Cmtr1
0.215436527	5.969908894	2.3739E-09	1.52206E-07	Xdh
0.166786041	13.39107287	6.8189E-41	1.78051E-38	Eif2ak2
0.195041035	9.498290214	2.1336E-21	2.84755E-19	Tapbp
0.202000715	6.470261734	9.7833E-11	7.19454E-09	Psmb8
0.169044147	8.42214146	3.6966E-17	4.26939E-15	Tap2
0.29469031	9.091990669	9.7242E-20	1.19214E-17	C2
0.186394578	5.858793145	4.6624E-09	2.90668E-07	Trim26
0.188970508	8.01005034	1.1466E-15	1.23704E-13	Dcp2
0.258507024	9.494461452	2.2135E-21	2.93243E-19	Ms4a4c
0.207983814	7.358982237	1.8532E-13	1.7481E-11	Ms4a4d
0.37910793	3.073726981	0.00211403	0.018285378	Ovol1
0.2785406	4.133722845	3.5693E-05	0.001011144	Lcor
0.345000006	3.992934849	6.5261E-05	0.001637602	Sectm1a
0.253825272	5.543689365	2.9616E-08	1.69164E-06	Atp10a
0.189330575	6.155691799	7.475E-10	5.0599E-08	Ifitm3
0.199289639	21.13060901	4.161E-99	8.33077E-96	Irf7
0.165342443	8.199762899	2.4086E-16	2.71225E-14	Atrip
0.181424776	7.62420481	2.4554E-14	2.41746E-12	Shisa5
0.208508086	6.555215809	5.5561E-11	4.278E-09	Sdc3
0.250642541	4.618813104	3.8594E-06	0.000143667	Il1rl1
0.198691202	6.166650876	6.9752E-10	4.77838E-08	Mitd1
0.172623259	16.79943179	2.4639E-63	1.47975E-60	Stat1
0.290510023	3.465222397	0.00052979	0.007593702	Zfp142
0.168149025	15.40913982	1.4209E-53	5.44691E-51	Sp100
0.168388725	9.249414633	2.2573E-20	2.88432E-18	Tor1aip1
0.231478251	12.27556009	1.2254E-34	2.56723E-32	Ifi211
0.475849047	2.627049684	0.00861288	0.044361973	Kif5c
0.19287547	14.11059259	3.2682E-45	9.81386E-43	Ifih1
0.202928784	5.761824677	8.3209E-09	5.08198E-07	Nmi
0.207009326	5.404488874	6.4993E-08	3.48508E-06	Itga4
0.199212702	10.84190529	2.1789E-27	3.50504E-25	Ube2l6
0.309727443	3.692521492	0.00022204	0.00420223	Prrg4
0.286865068	3.790386178	0.00015041	0.003122115	Slc28a2
0.264145485	3.79064243	0.00015026	0.003122115	Creb3l1
0.641530384	4.558687588	5.1474E-06	0.000186227	Siglec1
0.450969535	2.88621049	0.00389911	0.026797621	Rasgrp1
0.201873145	5.062143002	4.1457E-07	1.96045E-05	Cd93
0.226269461	15.60859101	6.3627E-55	2.60537E-52	Zbp1
0.467902022	2.997413041	0.00272282	0.021649145	Col9a3
0.184847583	13.55414309	7.4881E-42	2.04415E-39	Helz2
0.165338433	7.733243193	1.0484E-14	1.06119E-12	Samhd1
0.18824143	11.16717231	5.903E-29	1.00335E-26	Adar
0.317545507	4.26630697	1.9874E-05	0.000618413	Alpk1
0.217853338	19.14984011	9.7084E-82	9.20615E-79	Ifi44
0.197725259	17.77931943	1.0221E-70	8.00685E-68	Gbp3
0.176897059	16.91023012	3.7823E-64	2.43376E-61	Gbp2
0.28611169	3.842048373	0.00012201	0.002642171	Zfp618
0.302893877	4.535304881	5.752E-06	0.000204005	Tnfsf8

0.246896138	4.250701536	2.131E-05	0.000654082	Htt
0.167516188	12.78504503	1.9875E-37	4.83897E-35	Gbp9
0.252234516	4.189675872	2.7935E-05	0.000834678	Aff1
0.24193611	4.333013561	1.4708E-05	0.000472367	Plac8
0.822849551	5.513429762	3.5191E-08	1.98756E-06	Cxcl9
0.163621867	21.50531488	1.388E-102	3.1269E-99	Oasl2
0.220636469	12.41335488	2.2119E-35	4.9199E-33	Oas1b
0.283311618	4.28497968	1.8276E-05	0.000576657	Plxna4
0.184526939	14.66755113	1.0403E-48	3.6752E-46	Herc6
0.183207093	7.549402314	4.3726E-14	4.23555E-12	Zc3hav1
0.246245088	4.315018683	1.5959E-05	0.000508007	Plxna1
0.164718149	21.01615735	4.6672E-98	8.40898E-95	Usp18
0.357739213	4.187384072	2.8219E-05	0.000837618	Cd69
0.193657024	6.488840117	8.65E-11	6.43994E-09	Etnk1
0.171330097	17.34515077	2.1461E-67	1.48719E-64	Trim30a
0.178279449	10.83698847	2.2992E-27	3.66583E-25	Trim21
0.557790332	3.287122897	0.00101217	0.01155653	Slc38a5
0.195387779	9.854429091	6.5588E-23	9.45365E-21	Tlr3
0.18208347	6.844645749	7.6665E-12	6.33614E-10	Psmb10
0.621107854	3.460061333	0.00054005	0.007703977	Icam5
0.236743976	7.225164916	5.0049E-13	4.57736E-11	Tent5a
0.224626397	4.460719824	8.1685E-06	0.000280327	Cgas
0.224465659	4.805972972	1.54E-06	6.33477E-05	Xrn1
0.200863766	5.582722377	2.3678E-08	1.37174E-06	Csrnp1
0.409743545	2.573646627	0.0100633	0.049040829	Amigo3
0.169091615	13.20311759	8.4178E-40	2.16662E-37	Uba7
0.342657654	19.52866524	6.2656E-85	7.05543E-82	Oas3
0.21497885	20.76597286	8.7929E-96	1.44019E-92	Oas2
0.205688032	10.60328058	2.8771E-26	4.46864E-24	Rtp4
0.605815133	2.902774053	0.00369873	0.026059985	Trim69
0.435874727	6.464404377	1.017E-10	7.44839E-09	Apol6
0.306910785	3.648650946	0.00026362	0.004684082	Pdpr
0.251144777	3.982725769	6.8129E-05	0.001688427	Stard9
0.243538563	4.58843702	4.4658E-06	0.00016464	Atp7a
0.456766013	3.704769169	0.00021158	0.004056324	Pla2g4c
0.249206496	4.015611472	5.9292E-05	0.001508844	Ston1
0.188814959	12.17624232	4.1601E-34	8.51736E-32	Lgals3bp
0.303256564	3.38263875	0.00071793	0.009339311	Rnf225
0.206429718	13.96488929	2.553E-44	7.30123E-42	Parp14
0.256166343	5.564549446	2.6283E-08	1.5081E-06	Gbp8
0.214523465	19.9407469	1.8035E-88	2.321E-85	Ifit1
0.210289348	6.489818123	8.594E-11	6.42482E-09	Tent4a
0.241279861	4.803297982	1.5607E-06	6.40541E-05	Grn
0.279953202	4.847934525	1.2475E-06	5.2639E-05	Art3
0.169886109	28.27403665	7.21E-176	1.299E-171	Cxcl10
0.182704413	6.660370004	2.7314E-11	2.16791E-09	Tmem106a
0.208559381	16.37652124	2.8138E-60	1.40824E-57	Slfn8
0.257338263	3.97401069	7.0672E-05	0.001745865	Ssc5d
0.326292903	3.117866269	0.00182165	0.016685688	Ccl12
0.244963591	4.090585819	4.3028E-05	0.001158811	Cox18
0.180525554	8.007166992	1.1738E-15	1.25884E-13	Tdrd7
0.253482589	14.11556059	3.0458E-45	9.30118E-43	Isg15

0.441545303	3.356546612	0.00078922	0.009974642	Plekhs1
0.161934545	9.27927969	1.7063E-20	2.21166E-18	H2-Q4
0.594180561	3.363362443	0.00076999	0.009797278	Arsi
0.283122371	4.705935289	2.527E-06	9.87631E-05	Piwil4
0.22994288	6.984860487	2.8514E-12	2.47574E-10	Clca2
0.190942619	11.23903555	2.6223E-29	4.49964E-27	Pml
0.180197172	13.63375558	2.5226E-42	6.99218E-40	Tap1
0.263450253	4.719517852	2.364E-06	9.29977E-05	Themis2
0.206480691	6.45293553	1.097E-10	7.96991E-09	Fbxw17
0.255219478	19.21735455	2.6494E-82	2.65188E-79	Ifi206
0.237622456	5.107240081	3.269E-07	1.58326E-05	Zfp365
0.234430595	14.23536273	5.5275E-46	1.71706E-43	Ddx60
0.200056335	11.1316572	8.7984E-29	1.46779E-26	Parp11
0.269763978	3.775872436	0.00015945	0.003268242	Cramp1
0.29029957	3.582792231	0.00033994	0.005624157	Spon1
0.225910493	4.875293729	1.0865E-06	4.67132E-05	Slamf7
0.203270597	8.177852637	2.8895E-16	3.23351E-14	Spats2l
0.176276899	14.84990109	6.9671E-50	2.56177E-47	Parp12
0.878163091	2.656082887	0.00790542	0.04208981	Tmc3
0.242448343	4.25246118	2.1143E-05	0.000650069	Dock10
0.398087957	2.933575251	0.00335082	0.024791695	Scube3
0.188470509	8.059312945	7.6724E-16	8.42893E-14	Ascc3
0.232296666	7.411244413	1.2512E-13	1.18646E-11	Zcchc2
0.202432989	8.11319503	4.9306E-16	5.4836E-14	Isg20
0.165206587	7.681300221	1.5748E-14	1.57631E-12	Tnfsf10
0.227035575	12.51325067	6.3185E-36	1.45948E-33	Znfx1
0.293758432	3.536738093	0.0004051	0.006353465	Sdk1
0.279852667	9.237306762	2.5278E-20	3.20727E-18	Batf2
0.263485138	8.098216372	5.5771E-16	6.16456E-14	Trim14
0.176344203	16.38952826	2.272E-60	1.16957E-57	Ifi203
0.159510771	16.47940424	5.1591E-61	2.8167E-58	Stat2
0.230825065	4.53174311	5.8499E-06	0.000207068	Disp2
0.1787068	15.6941009	1.6598E-55	7.12004E-53	Gbp7
0.202256908	12.52374627	5.5359E-36	1.29533E-33	Rigi
0.224202195	12.30930922	8.0711E-35	1.73116E-32	Or2v1
0.22522491	10.70822998	9.3125E-27	1.47179E-24	Plekha4
0.181724081	12.60156244	2.07E-36	4.90733E-34	Xaf1
0.253142252	4.449864251	8.5925E-06	0.000293758	Ino80d
0.232346982	5.143455156	2.6973E-07	1.32418E-05	Mill2
0.454445749	2.615283301	0.00891535	0.045464991	Wnk3
0.251056046	4.174832351	2.9821E-05	0.000876471	Slc7a1
0.185585708	5.691501184	1.2593E-08	7.53765E-07	Ddx24
0.474117277	2.89672544	0.0037708	0.026353155	Klf8
0.190753334	22.06154151	7.402E-108	1.9051E-104	Oasl1
0.226974121	7.24366673	4.3671E-13	4.01442E-11	Agrn
0.293908484	4.822173496	1.42E-06	5.90868E-05	Tnfrsf14
0.240902125	5.268919059	1.3723E-07	7.04405E-06	Arel1
0.168669795	6.430252315	1.2739E-10	9.18091E-09	Naa25
0.15955883	12.31775457	7.269E-35	1.5779E-32	Trafd1
0.213967688	4.80677255	1.5339E-06	6.32427E-05	Smg7
0.203670474	11.76858198	5.6669E-32	1.04184E-29	Ifi209
0.223636324	6.532316357	6.476E-11	4.944E-09	Trim56

0.238537221	5.001949476	5.6753E-07	2.62186E-05	Zfp469
0.440863091	3.153664443	0.00161234	0.015437368	A530064D06R
0.207466201	6.127394665	8.933E-10	5.93894E-08	Ccrl2
0.433558174	2.626759038	0.00862024	0.04438719	Pcdhb21
0.313040944	3.991871002	6.5554E-05	0.00164268	Dact1
0.38380832	7.769876461	7.8563E-15	8.04241E-13	Phf11a
0.52529068	3.112865444	0.0018528	0.016868106	Tlr9
0.166993875	15.6892155	1.7926E-55	7.51088E-53	Gvin1
0.175742571	24.06577559	5.708E-128	5.1418E-124	Ifit2
0.4542388	3.62192938	0.00029241	0.005060924	Calhm6
0.255552939	5.461030377	4.7338E-08	2.60027E-06	Adamts6
0.43906745	3.05524769	0.00224875	0.019033297	Arsj
0.197549721	11.3724588	5.7349E-30	1.013E-27	Bst2
0.156856862	15.87295454	9.7539E-57	4.74963E-54	Irgm1
0.192196204	6.714524652	1.8868E-11	1.52442E-09	Rnf31
0.196804264	7.680500442	1.5847E-14	1.57742E-12	Samd9l
0.391239381	2.61160222	0.0090119	0.0457631	Ankfn1
0.386206306	3.579487528	0.00034427	0.005662698	Kcna3
1.279396175	6.90495828	5.0218E-12	4.20828E-10	Ifnb1
0.227931981	12.13382091	6.991E-34	1.39952E-31	Gm12185
0.262927303	3.875453723	0.00010643	0.002390874	Rnf24
0.23449872	4.530686773	5.8792E-06	0.000207292	Smcr8
0.157438786	6.913510697	4.728E-12	3.98061E-10	Ogfr
0.184203675	13.67724158	1.3886E-42	3.90916E-40	Dtx3l
0.184995024	6.896113867	5.3444E-12	4.4579E-10	Aftph
0.183591762	11.32169277	1.0247E-29	1.7925E-27	Trex1
0.716551519	4.755973512	1.9749E-06	7.90716E-05	Glp2r
0.293578165	8.038157191	9.12E-16	9.89845E-14	Apol10b
0.184005585	7.17028096	7.4844E-13	6.70878E-11	Ch25h
0.282361112	4.65507173	3.2387E-06	0.000122587	Tnfsf15
0.155282086	7.355493301	1.9022E-13	1.78503E-11	Tor1aip2
0.183937154	5.992393703	2.0677E-09	1.34009E-07	Mmp13
0.244258776	4.246740144	2.169E-05	0.000663488	Zfp366
0.221474624	4.885081433	1.0339E-06	4.47766E-05	Gfod1
0.221123531	7.628237408	2.3799E-14	2.35592E-12	Nlgn2
0.251338309	6.23708014	4.4581E-10	3.08932E-08	Cd177
0.279588268	4.364440683	1.2745E-05	0.000415985	Gm28047
0.34356419	3.377336504	0.00073191	0.009466002	C130026I21Ri
0.54051098	3.121720743	0.00179797	0.016576608	Sh2d6
0.456180041	5.543375143	2.967E-08	1.69164E-06	Trim30b
0.192674936	17.54217675	6.8262E-69	4.91949E-66	Oas1a
0.576031057	4.419415463	9.8968E-06	0.000330818	Gvin-ps6
0.247159024	15.48318272	4.5062E-54	1.76495E-51	H2-T24
0.306011357	6.479710699	9.1899E-11	6.81374E-09	Lipg
0.244491041	12.06675447	1.5825E-33	3.09919E-31	Iigp1
0.263231283	10.11420182	4.779E-24	7.05759E-22	Ifi205
0.182289554	12.92428936	3.2832E-38	8.10311E-36	Slfn5
0.250354227	4.667699765	3.0459E-06	0.000116514	Pla2r1
0.255789868	3.941088115	8.1113E-05	0.001922907	Phactr1
0.209677763	7.464772858	8.3443E-14	7.99681E-12	H2-Q5
0.520792128	2.57433889	0.01004318	0.049010851	Pcdh9
0.245584017	4.464100071	8.0406E-06	0.000276993	Soga1

0.306636976	4.977751607	6.4327E-07	2.92672E-05	Nod2
0.365760241	6.926180022	4.3236E-12	3.65717E-10	Clca3a1
0.198744558	8.565726132	1.074E-17	1.25647E-15	H2-T22
0.189555602	10.66651537	1.46E-26	2.28737E-24	Trim34a
0.162613691	10.96546266	5.6013E-28	9.17447E-26	Trim12c
0.270324362	15.79414012	3.4142E-56	1.53783E-53	Apol9a
0.167720519	6.243509412	4.2786E-10	2.97636E-08	Lgals8
0.225200154	14.03293888	9.8005E-45	2.84798E-42	Trim30d
0.537232122	2.566794297	0.01026435	0.049606428	Camk2b
0.2861748	9.807830584	1.0418E-22	1.46647E-20	Gm5431
0.300403075	3.687714191	0.00022628	0.004255578	Unc5c
0.724731076	5.514764317	3.4925E-08	1.97874E-06	Cxcl11
0.231391498	4.710797258	2.4675E-06	9.66454E-05	Trim5
0.149967104	16.73288387	7.5493E-63	4.38759E-60	Tor3a
0.187443507	6.806041109	1.0032E-11	8.21081E-10	H2-Q7
0.167859847	6.229981929	4.6649E-10	3.20791E-08	B2m
0.389077402	3.505414708	0.0004559	0.006844973	Tdrd5
0.264160808	4.092663207	4.2645E-05	0.001153648	Hipk2
0.50287948	4.499574061	6.809E-06	0.000237747	Gm53056
0.36557267	6.579642997	4.7158E-11	3.67811E-09	Hsh2d
0.207027927	23.51052096	3.184E-122	1.912E-118	Ifit3b
0.172018417	12.42727525	1.8586E-35	4.18585E-33	Parp10
0.202106308	9.433399439	3.9701E-21	5.2211E-19	Gvin-ps7
0.463388151	6.343295312	2.249E-10	1.58904E-08	BC023105
0.283098918	3.570095613	0.00035685	0.005786452	Zkscan8
0.232338738	4.922111291	8.5615E-07	3.79935E-05	Ubr4
0.360952238	2.771302552	0.00558325	0.033847612	Adamtsl1
0.187435078	9.268428933	1.8891E-20	2.43111E-18	Trim12a
0.392992289	4.167269584	3.0827E-05	0.000904576	Serpina3f
0.203526097	18.63236713	1.7558E-77	1.50643E-74	Ifi208
0.231893703	15.81285226	2.5372E-56	1.1721E-53	Oas1g
0.322274394	5.367551373	7.9813E-08	4.21697E-06	H2-K2
0.163293662	12.27291786	1.2661E-34	2.62193E-32	H2-T23
0.364010999	9.819782708	9.2543E-23	1.31287E-20	Ifit1bl2
0.228972608	11.81436557	3.2902E-32	6.17501E-30	Phf11d
0.278394355	14.2781651	2.9938E-46	9.59763E-44	Apol9b
0.574503647	7.200190055	6.0129E-13	5.44391E-11	Gm4841
0.164548111	9.223681445	2.8707E-20	3.61689E-18	Slfn9
0.185377332	15.85862234	1.2255E-56	5.81062E-54	Irgm2
0.204719954	8.75941569	1.9627E-18	2.35741E-16	9930111J21Ri
0.22652345	8.905245476	5.3268E-19	6.48466E-17	9930111J21Ri
0.228148558	7.614430213	2.6486E-14	2.57942E-12	Sp110
0.202579665	15.57339354	1.1039E-54	4.41984E-52	Rnf213
0.222594763	11.99133444	3.945E-33	7.64266E-31	Il18bp
0.290595262	9.165006307	4.9544E-20	6.15611E-18	Ifi214
0.192817984	6.233881883	4.5502E-10	3.14101E-08	Setdb2
0.469155288	2.603825841	0.00921896	0.046456734	A530040E14Ri
0.287658294	4.731231479	2.2316E-06	8.83672E-05	Trim6
0.17737886	8.356301848	6.4715E-17	7.37956E-15	Slfn2
0.243810782	7.022423102	2.1805E-12	1.90712E-10	Slfn10-ps
0.539500259	4.199755114	2.672E-05	0.000802369	4930599N23R
0.175592268	10.53370873	6.0407E-26	9.3021E-24	H2-Q6

0.246216334	5.650516196	1.5997E-08	9.48066E-07	C4b
0.182608479	18.71937091	3.4419E-78	3.10065E-75	Ifi204
0.232033901	9.835945279	7.8824E-23	1.12712E-20	Ifi207
0.217971578	19.53800377	5.2184E-85	6.26794E-82	Ifi213
0.255905209	14.27718087	3.0364E-46	9.59763E-44	Gm4951
0.266457777	6.679289712	2.401E-11	1.92264E-09	Gvin3
0.248125537	14.09712334	3.9557E-45	1.16835E-42	Nlrc5
0.188520669	5.454015653	4.9245E-08	2.6805E-06	Ceacam1
0.356357385	2.83476998	0.00458587	0.029817251	Gm16589
0.21215018	22.51552961	2.924E-112	1.0537E-108	Ifit3
0.314889091	3.372667318	0.00074444	0.009587239	Nynrin
0.627727499	4.356863418	1.3194E-05	0.000428316	Snora17
0.29052984	5.713809885	1.1047E-08	6.65691E-07	Psme2b
0.200440941	12.09689596	1.0968E-33	2.17155E-31	AW011738
0.646622598	2.684556585	0.00726261	0.039869111	Perm1
0.171078375	15.22737836	2.3274E-52	8.73594E-50	Gvin2
0.746763559	3.17610049	0.00149269	0.01482571	Trim30c
0.2401997	11.96601133	5.3541E-33	1.01542E-30	Slfn1
0.18114553	16.60055328	6.9051E-62	3.88781E-59	Igtp
0.180913919	11.78482074	4.6741E-32	8.68184E-30	Ifi47
0.215557223	13.14450726	1.8299E-39	4.57916E-37	Tgtp2
0.226247936	12.35198087	4.7527E-35	1.04425E-32	Tgtp1
0.345357137	2.91374476	0.00357122	0.025641267	Naip6
0.274887075	7.184892871	6.726E-13	6.05911E-11	Ifi27l2a
0.304530472	11.5383605	8.4521E-31	1.53819E-28	Ifit1bl1
0.197641259	19.41445557	5.825E-84	6.17348E-81	Gm43302
0.161504316	14.7359351	3.7892E-49	1.36539E-46	Gbp4
0.227771505	6.463474308	1.0233E-10	7.46399E-09	Ms4a6c
0.496002538	4.782017656	1.7354E-06	7.05813E-05	Gm16026
0.642454324	4.122692784	3.7447E-05	0.001052355	Gm7609
0.244675004	4.825630712	1.3956E-06	5.85318E-05	Nhsl2
0.224744851	6.531624825	6.506E-11	4.94593E-09	H2-T10
0.247134533	4.077764558	4.5471E-05	0.001213699	Gm11127
0.508951424	4.734201718	2.1992E-06	8.72749E-05	
0.420264125	3.06237792	0.00219586	0.018776846	Gm12216
0.412608891	5.811199443	6.2027E-09	3.82718E-07	Gm15753
0.261213157	16.87372082	7.023E-64	4.36321E-61	Gm12250
0.277066431	3.641402925	0.00027116	0.004784941	Gm15725
0.328644128	3.679701001	0.00023351	0.004373291	B930095G15R
0.586987125	2.567760155	0.0102358	0.049513947	Gm13563
0.675347967	3.94482341	7.9859E-05	0.001910778	Gm5970
0.254161316	5.212253136	1.8656E-07	9.33685E-06	Xist
0.260366793	11.98702388	4.1557E-33	7.96522E-31	Gvin-ps1
0.538090695	2.614409994	0.00893817	0.04554271	Gm614
0.287941549	6.153895758	7.5602E-10	5.08109E-08	Trim34b
0.22416012	12.5121364	6.4077E-36	1.46137E-33	Ifi203-ps
0.209783561	9.58043075	9.6641E-22	1.29939E-19	Cfb
0.178542063	14.56196283	4.903E-48	1.69878E-45	Mndal
0.57748254	4.730658962	2.2379E-06	8.84225E-05	Phf11
0.368060123	11.49234817	1.4414E-30	2.59697E-28	F830016B08Ri
0.257138107	10.28011471	8.6624E-25	1.31152E-22	Phf11c
0.44920342	5.349312115	8.8289E-08	4.63763E-06	Gm2619

0.190304163	7.821506414	5.2195E-15	5.43581E-13	Gm6548
0.213782372	14.40670566	4.6958E-47	1.53826E-44	Phf11b
0.561564839	6.245914551	4.2133E-10	2.94227E-08	Gbp11
0.211191681	9.699737037	3.0228E-22	4.18932E-20	Gm20547
0.415510009	2.567776539	0.01023531	0.049513947	Mir5129
0.553194912	4.116832903	3.8411E-05	0.001071687	BC147527
0.570989603	4.283696946	1.8381E-05	0.00057898	
0.293899343	9.67848585	3.7219E-22	5.08007E-20	Gvin-ps5
0.303695147	6.431253406	1.2656E-10	9.15726E-09	Gm21188
0.227619169	12.29078304	1.0152E-34	2.15182E-32	Gvin-ps3
0.189750105	7.833490952	4.7451E-15	4.99953E-13	Psmb9
0.758625873	5.724097812	1.0398E-08	6.30806E-07	Gm10827
0.240562543	6.61992944	3.5937E-11	2.82741E-09	9530082P21R
0.45510401	6.92729519	4.2896E-12	3.64558E-10	9330175E14Ri
0.289211494	4.53577834	5.7391E-06	0.000203949	Gm6277
0.405175388	5.315726204	1.0623E-07	5.53178E-06	Gm26797
0.421914362	3.738351558	0.00018523	0.003679497	Gm16685
0.165964679	6.707987052	1.9733E-11	1.58716E-09	Gm28043
0.272050251	3.84672905	0.00011971	0.002611281	C1rb
0.438352814	2.70290392	0.00687366	0.038432154	Mir6914
0.319846058	6.516432499	7.1999E-11	5.45046E-09	Gvin-ps4
0.431218241	2.939849626	0.00328372	0.024528485	Mir7025
0.241487667	4.146547862	3.3753E-05	0.000966804	Atf7
0.294846459	6.365677295	1.9443E-10	1.3901E-08	Gvin-ps2
0.236399492	6.984527724	2.8582E-12	2.47574E-10	Gm28052
0.641209385	3.838297025	0.00012389	0.002665904	Ms4a14
0.415605178	2.83365781	0.00460186	0.029888852	Gm21742
0.182617975	16.92933498	2.7345E-64	1.82474E-61	Gm28177
0.443557853	3.602696327	0.00031493	0.005302948	Gm36936
0.372962697	4.046281579	5.2038E-05	0.001349615	A930004J17Ri
0.464310832	3.092360816	0.00198571	0.01755478	Gm38253
0.700641805	3.299584278	0.00096828	0.011204578	9430034N14R
0.49181449	3.352125857	0.00080194	0.010082997	Gm38357
0.665023211	3.497768137	0.00046917	0.006985963	Gm38375
0.483034541	3.768813686	0.00016403	0.003343035	Gm38372
0.433721763	2.855054109	0.00430295	0.028717529	Gm37893
0.683746693	2.95340938	0.00314285	0.023831946	Gm38248
0.189098474	20.55067835	7.5895E-94	1.1395E-90	Gbp6
0.442668723	2.763873883	0.00571196	0.034269932	Gm42979
0.216589206	17.98609394	2.504E-72	2.05065E-69	Gbp10
0.247301315	12.65519315	1.0472E-36	2.5156E-34	Gm43802
0.66892078	2.653044457	0.00797694	0.042332979	Gm42603
0.254184821	17.65845472	8.7605E-70	6.57661E-67	Gbp5
0.557218109	3.285408329	0.00101835	0.011590368	Gm42659
0.466777958	3.549225786	0.00038637	0.006157699	Gm42141
0.410199364	2.77488164	0.00552218	0.0336239	Gm42664
0.318299508	3.280382845	0.00103666	0.011705019	Gm43439
0.507571332	2.934528217	0.00334055	0.024778395	B230303O12R
0.392140761	2.723241857	0.00646447	0.037116119	Gm43422
0.186124409	8.620744562	6.652E-18	7.83329E-16	Gm20559
0.366098095	3.332700133	0.00086008	0.010456132	Gm42906
0.537262745	3.631104531	0.00028221	0.004941295	Gm43196

0.486980621	2.660159327	0.00781037	0.041868321	Gm43268
0.271213634	9.635960566	5.6362E-22	7.63519E-20	Gm43197
0.440165772	2.954005947	0.00313678	0.023805964	Gm18840
0.903363714	4.796152189	1.6174E-06	6.62298E-05	2900060B14R
0.662666783	2.916689542	0.00353768	0.025490299	Gm44321
0.498449642	2.903509471	0.00369006	0.026052462	Gm44164
0.600091763	5.398871922	6.7061E-08	3.58529E-06	Gm44067
0.192478499	14.46110719	2.1334E-47	7.11799E-45	Gm45193
0.603421079	2.657387009	0.0078749	0.042046377	Gm45053
0.519227887	2.805954037	0.00501678	0.031637176	2310043P16R
0.736180235	3.31850008	0.00090502	0.010738276	BC060293
0.233138893	5.11595406	3.1216E-07	1.51595E-05	Gm39090
0.616764547	2.758117788	0.00581352	0.034725177	E230020D15R
0.425105629	3.201252999	0.00136831	0.014081265	Gm45221
0.494323821	2.718092217	0.00656595	0.037471899	Gm44667
0.608602587	3.614181866	0.0003013	0.005165059	Gm45418
0.522923216	2.715060229	0.00662637	0.037661622	Eid3
0.521662354	3.583762389	0.00033868	0.005610798	Gm45632
0.346556002	2.886683335	0.00389326	0.026781656	Gm45705
0.433110502	3.014447467	0.00257448	0.020779356	Gm10060
0.440476909	10.04667588	9.5019E-24	1.39183E-21	Gm6545
0.356040926	3.00424198	0.00266243	0.021319594	Gm48529
0.535570676	2.802529769	0.00507035	0.031807995	Gm48804
0.348324829	3.608951314	0.00030744	0.005215723	Gm49358
0.289514099	4.929535504	8.2425E-07	3.66681E-05	Gm47260
0.369356367	4.973016029	6.5919E-07	2.98409E-05	Gm36161
0.452579332	2.953850268	0.00313836	0.023807947	Gm48998
0.452774028	2.644539578	0.00818021	0.04300464	Gm49204
0.271747463	3.839027142	0.00012352	0.002662093	Gm2808
0.374336381	8.28266655	1.2045E-16	1.36484E-14	Gm49730
0.4861908	3.017340668	0.00255003	0.020687676	Gm49600
0.285614252	3.527432887	0.00041961	0.006517341	Gm2792
0.325183109	4.05169247	5.0848E-05	0.001327735	Gm50252
0.407430722	3.132355239	0.0017341	0.016154739	Gm41381
0.673891732	4.063800015	4.828E-05	0.001275161	Gm52950
0.56531891	3.931501946	8.4417E-05	0.001985558	Gm55258
0.346017509	4.030921988	5.5558E-05	0.001423894	Muc19
0.312348268	5.50888253	3.6112E-08	2.02058E-06	Gm57354
0.671209312	4.101728647	4.1008E-05	0.001126269	
0.229332164	7.830225127	4.87E-15	5.1013E-13	Slfn10-ps
0.501770108	4.887510974	1.0212E-06	4.43343E-05	
0.212600385	8.042136607	8.8285E-16	9.64023E-14	
0.317376647	5.120922867	3.0404E-07	1.48053E-05	H2-K2
0.438478575	2.628350714	0.00858	0.044293946	
0.283288346	4.187067772	2.8258E-05	0.000837618	Gm54819
0.378225405	3.62680292	0.00028695	0.005000016	Gm54952
0.316270791	4.717673733	2.3856E-06	9.364E-05	Gm55586
0.699651374	14.9772327	1.0343E-50	9.76961E-48	CXCL11
0.936733187	10.52055979	6.946E-26	1.4305E-23	
1.438126439	6.631322869	3.3269E-11	1.78332E-09	
0.867470382	10.92021984	9.2272E-28	2.19776E-25	LGALS17A
1.771231434	4.993044979	5.9435E-07	1.3182E-05	

0.548636838	15.89786843	6.5558E-57	9.451E-54	CXCL10
1.636842757	5.296605177	1.1798E-07	3.14958E-06	CSAG2
1.394125701	5.960580396	2.5134E-09	9.41799E-08	CSAG3
3.10955034	2.61130781	0.00901967	0.041585204	IFNB1
1.058246632	7.585950235	3.3006E-14	2.53951E-12	
0.771659165	10.29826188	7.1746E-25	1.36472E-22	HBD
1.09447491	7.132383993	9.8645E-13	6.37262E-11	IFNL2
1.071225092	7.246016078	4.2921E-13	2.90283E-11	IFNL3
1.302103788	5.930354293	3.0228E-09	1.11738E-07	SIMALR
2.245716916	3.38393334	0.00071455	0.005579343	
0.670641775	11.32048768	1.0389E-29	2.78992E-27	IDO1
0.750722654	9.672080574	3.9624E-22	5.74253E-20	APOBEC3A
1.097663789	6.43666349	1.2213E-10	5.87911E-09	ACOD1
1.055481446	6.665364911	2.6401E-11	1.44629E-09	
1.295967426	5.312921822	1.0788E-07	2.8942E-06	IFNL1
0.622932374	11.04576241	2.2981E-28	5.67089E-26	IFIT1
0.614570881	11.17905385	5.1638E-29	1.32187E-26	CCL8
0.6689527	10.13611244	3.82E-24	6.83881E-22	PLAAT2
1.014792049	6.641434986	3.1064E-11	1.67497E-09	TEX11
1.94603158	3.456302838	0.00054764	0.004510042	LINC02630
1.205198597	5.578799813	2.4218E-08	7.45355E-07	IFNA13
1.138263407	5.803868607	6.4802E-09	2.23833E-07	IFIT1B
0.899592739	7.303743456	2.7987E-13	1.95061E-11	IFNG
0.389699925	16.78260578	3.2716E-63	6.89326E-60	IFIT2
1.174514783	5.562440858	2.6603E-08	8.14162E-07	FAM247B
0.998333009	6.520577234	7.0037E-11	3.57243E-09	KLKP1
0.362509702	17.84377928	3.2309E-71	1.58384E-67	ISG15
1.259022799	5.094608668	3.4946E-07	8.30913E-06	IFNA1
0.816423984	7.639238977	2.1851E-14	1.71005E-12	CXCL9
0.614750807	10.06376368	7.9885E-24	1.37618E-21	PLA1A
0.387871064	15.66245188	2.7316E-55	3.40097E-52	MX2
0.505026546	12.02646795	2.5796E-33	8.2161E-31	RSAD2
1.384147807	4.372172093	1.2302E-05	0.000182335	ART3
1.05067023	5.753545636	8.7391E-09	2.93708E-07	OR2I1P
1.093293712	5.52846285	3.2305E-08	9.64954E-07	GBP7
0.510957848	11.79180646	4.3021E-32	1.29494E-29	IFI44L
1.238717839	4.843710761	1.2744E-06	2.56286E-05	
1.24154159	4.821199475	1.427E-06	2.82824E-05	LGALS14
0.38190838	15.42427055	1.1242E-53	1.18433E-50	GBP1P1
0.323506873	18.1823382	7.1231E-74	6.50362E-70	OASL
0.67525547	8.590790177	8.6373E-18	9.42569E-16	UBD
0.385056701	14.93347264	1.996E-50	1.76358E-47	GBP1P1
0.677353452	8.470698513	2.4393E-17	2.54045E-15	CALHM6
1.1203274	5.073703632	3.9015E-07	9.1104E-06	
0.34888203	16.2824764	1.3144E-59	2.11782E-56	IFIT3
0.584644717	9.6198707	6.5914E-22	9.40338E-20	IFI6
0.660554961	8.461220693	2.6459E-17	2.72461E-15	GBP5
0.648467423	8.572841482	1.0096E-17	1.09741E-15	CD38
0.586107995	9.472139999	2.7417E-21	3.73619E-19	LINC02574
0.860883099	6.403843994	1.5151E-10	7.24274E-09	BCL2L14
0.377753294	14.26590885	3.5691E-46	2.27353E-43	MX1
1.356913154	3.967890113	7.2512E-05	0.000834525	NKAIN1

1.618157755	3.221439726	0.00127548	0.008873953	TMEM239
0.360978608	14.40529873	4.7924E-47	3.20168E-44	OAS1
0.361636687	14.21947099	6.9375E-46	4.31878E-43	GBP1
0.860078307	5.838994355	5.2517E-09	1.8395E-07	RUFY4
1.927715729	2.601493929	0.00928187	0.042536343	CBX1P3
1.667334632	2.984465279	0.00284074	0.016676132	UBL4B
0.826596012	6.005074299	1.9124E-09	7.36761E-08	XACT
1.403756719	3.494060584	0.00047573	0.00400578	RAD1P2
1.470891606	3.333008936	0.00085912	0.006466668	QKILA
1.39790942	3.495258739	0.0004736	0.003996101	SLC26A4-AS1
0.554766616	8.774573626	1.7155E-18	1.91796E-16	NEURL3
0.780317224	6.207032815	5.3994E-10	2.35879E-08	HLA-W
0.615667881	7.864671544	3.7007E-15	3.18758E-13	CCL7
0.852904751	5.650097454	1.6036E-08	5.14325E-07	TRAPPC3L
0.342509001	14.06062637	6.6297E-45	3.7832E-42	USP18
0.372958774	12.82836041	1.1375E-37	4.86814E-35	USP41
0.569648126	8.349329587	6.8652E-17	6.93887E-15	LAP3P2
0.510862573	9.298369485	1.4262E-20	1.85137E-18	GBP4
1.176778509	4.032384909	5.5214E-05	0.000659842	KIR2DL4
0.317948429	14.89535004	3.5333E-50	3.02439E-47	BATF2
0.372390787	12.69376547	6.4032E-37	2.54187E-34	
0.713427984	6.607578459	3.9066E-11	2.06573E-09	
1.320361687	3.541215823	0.00039829	0.003461135	IFNA5
0.949157839	4.883547888	1.0419E-06	2.14746E-05	PRAL
1.735210876	2.666212962	0.00767111	0.036721308	SNORD13
1.020587756	4.522173227	6.1208E-06	0.000100272	
1.14708983	4.010050411	6.0706E-05	0.000716103	
0.372888518	12.29506072	9.6284E-35	3.33839E-32	HERC6
1.707980942	2.677651026	0.00741404	0.035803601	UGT3A2
0.243543616	18.66717563	9.1569E-78	2.50816E-73	RTP4
1.38689249	3.255909977	0.0011303	0.007993786	LINC01397
0.566582723	7.943745909	1.9617E-15	1.73328E-13	IL31RA
1.572459375	2.846597628	0.00441892	0.023753785	U3
0.502421034	8.900433726	5.5629E-19	6.42924E-17	CCDC194
0.315701157	14.0813271	4.9472E-45	2.88316E-42	ZBP1
1.726825442	2.566752393	0.01026559	0.045907713	RNVU1-31
0.549008654	8.05161817	8.1706E-16	7.58652E-14	HAPLN3
0.585257002	7.539387564	4.7218E-14	3.54345E-12	
0.301969382	14.59642871	2.9595E-48	2.31608E-45	OAS3
0.318104376	13.79187907	2.8523E-43	1.53192E-40	USP30-AS1
0.547158793	7.992378242	1.3236E-15	1.1848E-13	IL27
0.542269891	8.018580895	1.0697E-15	9.73462E-14	CR1L
0.264369181	16.42436964	1.2801E-60	2.3375E-57	EPSTI1
0.398926011	10.87871733	1.456E-27	3.37971E-25	TNFSF13B
1.327233756	3.265514133	0.00109266	0.007804442	
1.020123624	4.23304085	2.3055E-05	0.000312472	
0.24066518	17.83979907	3.4694E-71	1.58384E-67	ETV7
0.691544345	6.191443362	5.9616E-10	2.57561E-08	CCL19
1.297526438	3.288359526	0.00100773	0.00732557	ADAM7-AS1
0.91898199	4.620771585	3.8232E-06	6.69138E-05	OTOF
0.557982838	7.585432129	3.3138E-14	2.54254E-12	SECTM1
0.239915263	17.59456057	2.7115E-69	1.06101E-65	RIGI

0.472672056	8.919725149	4.6745E-19	5.42535E-17	AIM2
1.333380942	3.155374985	0.00160292	0.010625742	
0.270473823	15.53723495	1.9418E-54	2.12754E-51	IFITM1
0.446121847	9.409546837	4.9828E-21	6.65776E-19	
1.500554225	2.796309963	0.00516898	0.026932382	
1.248922173	3.344224315	0.00082513	0.006274607	MTND1P11
1.348062022	3.092327292	0.00198594	0.012530941	LINC01517
0.278865863	14.94151119	1.7692E-50	1.61531E-47	IFIH1
0.406730369	10.22644645	1.5096E-24	2.81284E-22	GRIP2
0.229993273	18.07417479	5.0911E-73	3.48628E-69	IFI35
0.880960093	4.718068353	2.3809E-06	4.43649E-05	GRIN3A
0.282414917	14.7142133	5.225E-49	4.20938E-46	HERC5
1.455210101	2.845850664	0.0044293	0.023791259	OR52P1
0.239273011	17.29297074	5.3142E-67	1.61733E-63	
1.261148122	3.268482356	0.00108126	0.007751052	IFNL3P1
0.818323457	5.008406046	5.4883E-07	1.23322E-05	
1.235729443	3.309872845	0.00093338	0.006893335	
0.711437045	5.745981919	9.1389E-09	3.06394E-07	LRRTM2
0.329337809	12.40182156	2.5545E-35	9.20661E-33	CMPK2
1.334020281	3.053512235	0.00226179	0.013956483	MTCO3P11
0.572239851	7.065238618	1.6034E-12	1.02137E-10	LAG3
0.988469051	4.085770741	4.3931E-05	0.000544483	CLCA3P
0.658231889	6.12481714	9.0788E-10	3.76213E-08	TRIM31
1.282589805	3.13618667	0.0017116	0.011170478	
0.557424868	7.198122017	6.1048E-13	4.02928E-11	TOMM20P2
0.314859556	12.7150456	4.8782E-37	1.99433E-34	OAS2
0.978166253	4.084671582	4.4139E-05	0.000546572	MAB21L2
0.978029365	4.054415018	5.026E-05	0.000609146	
1.245241646	3.173324925	0.00150704	0.010121327	CARD17P
0.236602686	16.65419222	2.8213E-62	5.51983E-59	IRF7
0.249908044	15.72550028	1.0115E-55	1.31932E-52	ISG20
0.387779967	10.13157451	4.0015E-24	7.07136E-22	KLHDC7B
0.376215873	10.41520571	2.1134E-25	4.1948E-23	
0.524950111	7.395279905	1.4111E-13	1.01983E-11	DEFB1
0.430114434	9.007988149	2.0987E-19	2.52131E-17	NRIR
0.673675015	5.74161276	9.3779E-09	3.13639E-07	ASCL2
0.476116625	8.070038714	7.0276E-16	6.59221E-14	TMEM171
0.389262874	9.858845141	6.2767E-23	9.82431E-21	IL18BP
1.028454708	3.730415303	0.00019116	0.001884197	CLCA3P
0.669733593	5.723043316	1.0463E-08	3.46553E-07	ABCC11
0.2175442	17.42569895	5.2661E-68	1.80305E-64	IFI44
0.471049283	8.029840989	9.7599E-16	8.91112E-14	XXYLT1-AS2
0.260933043	14.45627388	2.2886E-47	1.69422E-44	DHX58
0.383619785	9.792242555	1.2157E-22	1.8813E-20	ACKR1
1.068430366	3.504396045	0.00045764	0.003889337	
0.449682406	8.323452804	8.5437E-17	8.54092E-15	HESX1
0.304864197	12.27550442	1.2263E-34	4.1467E-32	WARS1
0.50375434	7.407155814	1.2904E-13	9.35039E-12	SEPTIN4-AS1
0.252560529	14.76223093	2.5665E-49	2.13026E-46	HELZ2
0.94841874	3.916045465	9.0013E-05	0.001005118	IL2
0.343233169	10.80926184	3.1116E-27	6.92934E-25	ANGPTL1
1.175299943	3.156146116	0.00159869	0.010605389	MT1P3

0.908407551	4.065160761	4.7999E-05	0.00058668	
0.242104571	15.24482265	1.7822E-52	1.7434E-49	IFI27
0.666376242	5.536632799	3.0834E-08	9.2811E-07	ETV7-AS1
0.2319713	15.87747133	9.0764E-57	1.24306E-53	BST2
0.832768356	4.410955794	1.0292E-05	0.000156002	
0.484863578	7.554257112	4.2126E-14	3.18747E-12	CX3CL1
1.287701771	2.840969795	0.00449766	0.0240804	PTCHD3P2
1.283334873	2.849836387	0.00437417	0.023594517	
0.337020087	10.83503834	2.3487E-27	5.31673E-25	NT5C3AP1
0.296625325	12.28749583	1.0573E-34	3.62009E-32	SAMD9
0.224307252	16.22603033	3.3013E-59	5.02368E-56	
0.36205939	10.03522159	1.0672E-23	1.80442E-21	CFB
0.251147068	14.4317088	3.2688E-47	2.35621E-44	GMPR
0.266567517	13.58037324	5.2359E-42	2.75801E-39	LAP3
0.564587544	6.398503544	1.5691E-10	7.47451E-09	RPH3A
0.763832849	4.712190367	2.4507E-06	4.54788E-05	LCTL
0.965820268	3.724749804	0.00019551	0.001918047	RN7SL124P
1.280803668	2.808488193	0.00497747	0.026148428	
0.298782552	11.98856112	4.0793E-33	1.26973E-30	SAMD9L
1.181237773	3.012657713	0.00258971	0.015491308	C20orf141
1.133087397	3.131956189	0.00173646	0.01130307	NELL1
0.334708594	10.59579046	3.117E-26	6.56744E-24	H2AC18
1.204069438	2.933066739	0.00335632	0.019125984	CDHR5
1.02256325	3.453496371	0.00055337	0.004549025	CASC19
0.507294362	6.948436717	3.6936E-12	2.25827E-10	
0.245706202	14.31175893	1.8478E-46	1.20507E-43	NT5C3A
1.021095816	3.441370094	0.00057878	0.004716829	VIL1
0.241450284	14.55204304	5.6684E-48	4.3129E-45	LY6E
0.316288543	11.09977675	1.2576E-28	3.15939E-26	PLAAT4
0.682551673	5.110702783	3.2096E-07	7.68487E-06	SRD5A3-AS1
0.944880195	3.685768797	0.00022801	0.002176137	
0.286585539	12.1291821	7.3985E-34	2.41252E-31	XAF1
0.319694966	10.86283173	1.7329E-27	3.95551E-25	H2AC19
0.325867898	10.63144725	2.1278E-26	4.6257E-24	SOCS1
1.057474241	3.264126403	0.00109802	0.007826154	ENPP7
0.650781079	5.28348729	1.2675E-07	3.36084E-06	PPM1K-DT
0.2696991	12.69825102	6.0466E-37	2.43562E-34	TAP1
1.24315682	2.744981055	0.00605144	0.030520156	
0.743723471	4.552053333	5.3125E-06	8.84585E-05	LHFPL1
0.300141172	11.25817114	2.1109E-29	5.55969E-27	ACE2
0.685153771	4.916853272	8.7946E-07	1.85585E-05	XIRP1
0.977017536	3.447404035	0.000566	0.004633397	SELE
0.79502067	4.235768576	2.2777E-05	0.000309279	Y_RNA
1.044908558	3.216873815	0.00129596	0.008982168	P2RX2
0.881203647	3.805676612	0.00014142	0.001463928	CXCR2P1
1.066561684	3.131681864	0.00173808	0.011304553	PSME2P2
0.294588334	11.32741588	9.5995E-30	2.60337E-27	IRF1
0.780946366	4.240282934	2.2324E-05	0.000303912	SMTNL1
0.683152925	4.845631115	1.2621E-06	2.54192E-05	TNFAIP6
1.093175731	3.017440123	0.00254919	0.015325938	LINC03062
0.942249668	3.49503483	0.000474	0.003996101	
0.283902905	11.57548182	5.4862E-31	1.58182E-28	TNFSF10

0.345426189	9.435699463	3.8839E-21	5.24064E-19	
0.612606496	5.282613279	1.2735E-07	3.36714E-06	SIGLEC1
1.047961547	3.084193609	0.00204105	0.01280493	TRGJP1
1.253711601	2.570258541	0.01016226	0.045564671	ICAM4-AS1
0.260393596	12.35806944	4.4061E-35	1.54728E-32	FBXO6
0.300104307	10.70547317	9.5939E-27	2.11925E-24	
0.208221443	15.38882452	1.9453E-53	1.97351E-50	HSH2D
0.495886841	6.39894387	1.5646E-10	7.46597E-09	VCAM1
0.470767561	6.704444687	2.0217E-11	1.13246E-09	LINC00996
0.569209209	5.534994719	3.1124E-08	9.34541E-07	KLHDC7B-DT
0.34311597	9.167759315	4.8295E-20	6.04044E-18	GBP2
1.034017681	3.028717648	0.00245594	0.014865083	IGHEP2
0.544936195	5.716017745	1.0905E-08	3.6031E-07	OR52K3P
0.230367002	13.49075457	1.7728E-41	9.16187E-39	SP110
0.542385765	5.728074465	1.0158E-08	3.3684E-07	SMCO2
0.592030343	5.243086844	1.5791E-07	4.06138E-06	SMPD3
0.68295488	4.530439003	5.8861E-06	9.67168E-05	KRT39
0.732966547	4.190811341	2.7796E-05	0.000367096	IRS3P
0.233530404	13.14729195	1.7638E-39	8.78399E-37	DDX60L
0.333567074	9.198837322	3.6184E-20	4.54645E-18	GCH1
0.288516519	10.62387487	2.3078E-26	4.97736E-24	BATF3
0.682749246	4.485309521	7.2808E-06	0.000115947	PSME2P1
1.179303158	2.595896501	0.00943445	0.043084189	SCT
1.01724989	2.994491473	0.00274903	0.016238648	
0.758540369	4.012083428	6.0185E-05	0.000711802	
0.337659093	9.005488781	2.1471E-19	2.56814E-17	LY6E-DT
0.377006783	8.057757054	7.7707E-16	7.26442E-14	RHEBL1
0.453367958	6.693634431	2.1769E-11	1.21197E-09	LINC00487
0.354858133	8.54999315	1.231E-17	1.32224E-15	PTGES3P1
1.054654707	2.858125988	0.00426151	0.02311427	MEP1B
0.615172968	4.885642519	1.0309E-06	2.12795E-05	
0.398152627	7.540216915	4.6919E-14	3.53066E-12	
0.963096786	3.114839805	0.00184045	0.011792215	LINC03025
0.916820937	3.270058799	0.00107525	0.007722131	
0.231908562	12.91470006	3.7189E-38	1.69774E-35	MT-TF
0.207273555	14.42924755	3.3876E-47	2.3792E-44	TRIM22
0.393457087	7.576820161	3.5413E-14	2.6986E-12	HLA-J
0.986660467	3.021381968	0.00251624	0.015157742	LINC02884
0.172635404	17.24231687	1.2781E-66	3.18259E-63	PLSCR1
1.157193486	2.5637618	0.01035446	0.046199537	ADAMTS20
0.883186808	3.349449578	0.00080972	0.006183195	LINC01181
0.84718311	3.4888868	0.00048504	0.004066616	C4orf54
0.384587882	7.680881231	1.58E-14	1.26542E-12	NOD2
0.354491488	8.313522316	9.2903E-17	9.18662E-15	IL22RA1
1.094790176	2.682633508	0.0073045	0.035405686	CSF3
0.384925447	7.611398119	2.7115E-14	2.10396E-12	LINC01285
0.498202938	5.87154472	4.3175E-09	1.53188E-07	CCL5
0.267700647	10.91542846	9.727E-28	2.29682E-25	NCF1C
0.248807219	11.73495577	8.437E-32	2.48494E-29	NCF1
0.186808518	15.62474791	4.9387E-55	5.63651E-52	UBE2L6
0.238032995	12.25421681	1.5948E-34	5.3273E-32	STAT1
0.553672829	5.258311472	1.4538E-07	3.78178E-06	HORMAD1

0.292267935	9.936880085	2.877E-23	4.74717E-21	
1.071348035	2.704738595	0.00683582	0.033555526	
0.815185098	3.542006599	0.0003971	0.003452966	LINC01506
0.920969447	3.127876191	0.00176074	0.011425852	
0.229779995	12.51377627	6.2768E-36	2.32334E-33	DDX60
0.615994623	4.655419771	3.2332E-06	5.81872E-05	BANCR
0.821366221	3.490236531	0.00048259	0.00404985	LINC02773
0.274851725	10.4204028	2.001E-25	4.00076E-23	
0.735975769	3.891263679	9.9723E-05	0.00109788	CCL4L2
0.619080171	4.61742685	3.8853E-06	6.74988E-05	RNA5S7
0.299084408	9.556571471	1.2172E-21	1.69244E-19	
0.269410926	10.59868071	3.0221E-26	6.417E-24	IL4I1
0.652217561	4.36484736	1.2721E-05	0.000187336	RNA5S4
0.430392215	6.580800537	4.6792E-11	2.46005E-09	
0.820130898	3.436789878	0.00058865	0.004783082	TNFSF18
0.346350092	8.117723034	4.7501E-16	4.48656E-14	CCL2
0.850369336	3.29882327	0.00097091	0.007110749	
0.926375821	3.027734396	0.00246395	0.01490062	GP1BA
0.828933476	3.382649554	0.0007179	0.005603889	
1.090912706	2.567171043	0.0102532	0.04587479	
0.748179915	3.739914028	0.00018408	0.001821612	TNK2-AS1
0.324312314	8.624502569	6.4372E-18	7.10971E-16	MEFV
0.285592249	9.785595096	1.2983E-22	1.99784E-20	NCF1B
0.16386014	17.03605124	4.437E-65	1.01277E-61	PSMB9
0.896243632	3.11304742	0.00185166	0.011850208	TIMD4
0.773609515	3.605676591	0.00031134	0.002826627	
0.280549081	9.94042026	2.7765E-23	4.60921E-21	APOL3
0.257550861	10.81705677	2.8581E-27	6.41687E-25	APOL1
0.516492236	5.393950715	6.8925E-08	1.92646E-06	ALMS1P1
0.853786368	3.261712846	0.00110741	0.007872603	GBA3
0.853089907	3.262620989	0.00110387	0.007853536	LINC02086
0.618506071	4.493800766	6.9963E-06	0.000111942	GZMB
0.685750331	4.05196311	5.079E-05	0.000614479	
0.291740756	9.522747342	1.6866E-21	2.33322E-19	NCF1B
0.895867631	3.10057498	0.00193145	0.012240729	RIMS2
0.857982637	3.234713247	0.00121765	0.008532269	
0.420226047	6.581311064	4.6632E-11	2.45633E-09	CACNA1A
0.666451216	4.136894575	3.5204E-05	0.000450171	CCL4
0.667814362	4.124792975	3.7107E-05	0.000470117	GABBR1
0.854889737	3.213448627	0.00131151	0.009064759	
0.258737558	10.6092782	2.6983E-26	5.77405E-24	TLR3
0.780125656	3.51768909	0.00043532	0.003733221	RPH3AL-AS1
0.429699338	6.382052858	1.7473E-10	8.23755E-09	
0.838618314	3.269482654	0.00107744	0.007733819	
0.251755149	10.87627436	1.4955E-27	3.44232E-25	ODF3B
0.370784961	7.367321971	1.7409E-13	1.2483E-11	FFAR2
0.223860083	12.18211289	3.8712E-34	1.27755E-31	PARP14
0.5209918	5.234190204	1.6571E-07	4.23015E-06	MIR155
0.350749496	7.759424285	8.5316E-15	6.99666E-13	LGALS9DP
0.272736308	9.963449288	2.2028E-23	3.67916E-21	TMEM229B
1.021152075	2.659980816	0.00781451	0.037219136	MIR2052HG
0.749453457	3.62383391	0.00029027	0.00266267	SSTR3

0.429604534	6.311875284	2.7567E-10	1.26969E-08	
0.394125518	6.869502031	6.4426E-12	3.83631E-10	EXOC3L4
0.523846804	5.167603757	2.3711E-07	5.8354E-06	LINC01358
0.2734177	9.861710968	6.1001E-23	9.65812E-21	TAP2
0.433042305	6.218326048	5.0249E-10	2.19866E-08	
1.009389687	2.666323558	0.00766858	0.036715645	LINC01752
0.260288959	10.32186446	5.6123E-25	1.075E-22	
0.440440679	6.094155059	1.1002E-09	4.45122E-08	ANKRD22
0.28875499	9.288393739	1.5663E-20	2.01426E-18	CD274
0.345817112	7.747357857	9.3824E-15	7.60337E-13	H2AC20
0.233588391	11.44231461	2.5694E-30	7.03778E-28	TREX1
0.80207372	3.329122502	0.0008712	0.006536034	TCF3P1
0.244944161	10.89560627	1.2096E-27	2.83177E-25	STAT2
0.546166251	4.882682662	1.0465E-06	2.15528E-05	C4A
0.270023908	9.86451959	5.9318E-23	9.44635E-21	VAMP5
0.908340728	2.927100455	0.00342138	0.019406734	PLSCR2
0.538633601	4.934789262	8.0237E-07	1.71167E-05	C4B
0.161855316	16.39189194	2.1854E-60	3.74119E-57	TYMP
0.70623406	3.755224188	0.00017319	0.001733193	ALMS1P1
0.790716885	3.353177066	0.0007989	0.006105624	RNA5SP202
0.447635181	5.888899111	3.8878E-09	1.40118E-07	GBP6
0.764683075	3.444907644	0.00057125	0.004669422	CHODL
0.613422007	4.293236329	1.7609E-05	0.000247598	RNA5S1
0.287511605	9.155737531	5.3988E-20	6.72172E-18	TMEM140
0.308237958	8.526143204	1.5131E-17	1.59403E-15	CYP2J2
0.2283494	11.49500374	1.3977E-30	3.94699E-28	IRF1-AS1
0.439294179	5.972549785	2.3357E-09	8.82458E-08	RET
0.863381611	3.03398584	0.00241346	0.014690448	WNT6
0.268539043	9.741693158	2.0019E-22	2.9964E-20	APOL2
0.955721378	2.73023918	0.00632884	0.03157618	MIR6759
0.227587162	11.46484943	1.981E-30	5.48107E-28	MDK
0.330895383	7.880585078	3.2585E-15	2.82449E-13	LGALS9
0.857423516	3.041240603	0.00235605	0.014405066	LINC01142
0.646108746	4.029691375	5.585E-05	0.000665989	LINC02068
0.379468532	6.855297713	7.1164E-12	4.19195E-10	RGS1
0.195234201	13.31610102	1.866E-40	9.46517E-38	PML
0.367417326	7.062788072	1.6319E-12	1.03714E-10	CLDN14
0.725516035	3.573746226	0.00035191	0.003119472	ZKSCAN7-AS1
0.817449432	3.170707718	0.00152068	0.010181703	
0.750261483	3.453576834	0.0005532	0.004549025	CNGA1
0.535537647	4.836002157	1.3248E-06	2.64866E-05	GLRXP3
0.591347468	4.370792325	1.238E-05	0.000183193	RNA5S8
0.661921336	3.900283491	9.608E-05	0.001063755	LINC01093
0.266404027	9.669493066	4.0639E-22	5.85859E-20	SLC15A3
0.500815023	5.141739504	2.7221E-07	6.59823E-06	RNA5S14
0.716600289	3.587066632	0.00033442	0.002997404	
0.587412492	4.346191513	1.3852E-05	0.000202144	MIR147B
0.334828956	7.623810174	2.463E-14	1.92202E-12	SSTR2
0.203112761	12.53038455	5.0915E-36	1.91044E-33	PARP10
0.414096438	6.144575476	8.0178E-10	3.36316E-08	ARL14
0.284670523	8.934339567	4.0962E-19	4.81538E-17	CEACAM1
0.138043843	18.42409292	8.419E-76	1.15303E-71	NMI

0.637752939	3.983190671	6.7996E-05	0.000789857	
0.416449725	6.097368829	1.0783E-09	4.39514E-08	LGALS9B
0.433550916	5.849532097	4.9296E-09	1.732E-07	XKR9
0.715578651	3.540931459	0.00039872	0.003462708	HLA-DPA3
0.449625589	5.631034501	1.7913E-08	5.67237E-07	
0.263026231	9.613222062	7.0314E-22	9.92762E-20	PDGFRL
0.401554205	6.287811017	3.2197E-10	1.45593E-08	ANO7L1
0.655831029	3.841630599	0.00012222	0.001301096	RNA5S17
0.301588567	8.346851525	7.0107E-17	7.05991E-15	RNU1-125P
0.388580552	6.470796361	9.7488E-11	4.7769E-09	SNORD3D
0.388580552	6.470796361	9.7488E-11	4.7769E-09	SNORD3D
0.394996944	6.349812662	2.1558E-10	1.00253E-08	L3MBTL2-AS1
0.178667584	14.02532258	1.0911E-44	6.09952E-42	TRIM21
0.480535769	5.190362697	2.0988E-07	5.24062E-06	HLA-DOB
0.340830655	7.315044669	2.573E-13	1.80245E-11	
0.968618948	2.564562854	0.01033059	0.046108049	
0.943877029	2.629672012	0.00854673	0.039901727	
0.413679863	5.996157689	2.0204E-09	7.74E-08	APOBEC3B
0.243016168	10.19326683	2.125E-24	3.90645E-22	RNF19B
0.192094602	12.87035113	6.6101E-38	2.92028E-35	IFIT5
0.580821906	4.254693632	2.0934E-05	0.000287702	C15orf48
0.553099477	4.460650597	8.1711E-06	0.000128318	
0.214954762	11.46869064	1.895E-30	5.29666E-28	ZNFX1
0.577497569	4.268098642	1.9715E-05	0.000273143	RNA5S15
0.217656595	11.31814725	1.067E-29	2.83758E-27	HLA-F
0.501160791	4.912439074	8.995E-07	1.88944E-05	
0.242592721	10.1339553	3.9053E-24	6.94603E-22	GBP3
0.191150839	12.85519575	8.0422E-38	3.49657E-35	PSMB10
0.924615297	2.65748617	0.00787258	0.037451203	
0.253118955	9.69842526	3.0619E-22	4.50903E-20	IL15RA
0.299295562	8.181254619	2.809E-16	2.70924E-14	SERPING1
0.504559962	4.845887317	1.2605E-06	2.54051E-05	LINC01914
0.926432227	2.631725074	0.00849526	0.039722363	LINC01539
0.360770143	6.757087383	1.4079E-11	8.07053E-10	
0.593559631	4.102115646	4.0939E-05	0.00051282	CCL3
0.25238892	9.637353781	5.5603E-22	7.97391E-20	ASPHD2
0.171300718	14.19897456	9.2963E-46	5.53553E-43	IFITM3
0.154962619	15.65153759	3.2429E-55	3.862E-52	MIR7703
0.783513079	3.090462763	0.00199845	0.012598275	U2
0.292650106	8.26830734	1.3587E-16	1.33875E-14	GJD3
0.209204834	11.56022545	6.5536E-31	1.86991E-28	CARD16
0.595609841	4.059101862	4.9262E-05	0.00059917	TEX29
0.403218384	5.995424904	2.0295E-09	7.76413E-08	SNORD3B-2
0.728688463	3.316465448	0.00091164	0.00676346	HPCA
0.685930694	3.515965359	0.00043816	0.003754016	RNU2-1
0.368763577	6.51330661	7.3514E-11	3.71518E-09	H2BC4
0.573163181	4.184603595	2.8566E-05	0.000374743	RNA5S2
0.215330105	11.11993642	1.0034E-28	2.54491E-26	SLC25A28
0.710233298	3.369313836	0.00075356	0.005830691	CCL3L3
0.870929193	2.747478919	0.00600554	0.030338927	CLCN1
0.33384861	7.16696958	7.6676E-13	4.99804E-11	RIPK2
0.788049126	3.032950931	0.00242175	0.01472783	RPL17P28

0.588733829	4.05962604	4.9151E-05	0.000598157	RNA5S3
0.282125774	8.468868384	2.4779E-17	2.5709E-15	
0.580023836	4.101310178	4.1082E-05	0.000514057	RNA5S10
0.287724213	8.266529355	1.3792E-16	1.35399E-14	
0.329869727	7.204686278	5.8178E-13	3.87064E-11	
0.257578883	9.208793945	3.2981E-20	4.20177E-18	PMAIP1
0.409888729	5.77282806	7.7952E-09	2.63603E-07	RNU1-27P
0.188071704	12.57028731	3.076E-36	1.17022E-33	PARP9
0.391036748	6.044395423	1.4997E-09	5.9021E-08	APOL4
0.625715747	3.775895126	0.00015943	0.001618028	
0.251682859	9.380414381	6.5714E-21	8.65371E-19	MLKL
0.490009173	4.813377954	1.484E-06	2.92644E-05	
0.719460255	3.276265071	0.0010519	0.007588236	RND1
0.732214154	3.217263213	0.0012942	0.008972255	KCNS1
0.556115928	4.229877742	2.3382E-05	0.000316116	RNA5S13
0.779620077	3.016304103	0.00255876	0.015373356	BARX1
0.458039221	5.125771666	2.9632E-07	7.14484E-06	
0.280229234	8.365142326	6.0042E-17	6.11383E-15	
0.493066454	4.753957601	1.9947E-06	3.79956E-05	LGI4
0.387667348	6.036427172	1.5756E-09	6.18314E-08	SNORD3C
0.23565223	9.93024734	3.0749E-23	5.04342E-21	APOBEC3G
0.264198237	8.85635563	8.2673E-19	9.51467E-17	TRANK1
0.321131474	7.271159603	3.5641E-13	2.44064E-11	PTN
0.185570832	12.58235565	2.6404E-36	1.01863E-33	
0.582810769	4.002584193	6.2654E-05	0.000736868	RNA5S16
0.794580731	2.928474413	0.0034063	0.019341195	
0.298029377	7.807536603	5.8317E-15	4.89984E-13	LILRA5
0.633285061	3.673036167	0.00023969	0.002270134	PTGES
0.47875338	4.857267644	1.1902E-06	2.41839E-05	ATP10B
0.298889662	7.77510609	7.5384E-15	6.21942E-13	EID3
0.599238838	3.870930225	0.00010842	0.001175433	RNA5SP226
0.180098522	12.87787369	5.9965E-38	2.69262E-35	SHFL
0.572725868	4.049516473	5.1324E-05	0.000619297	
0.68621124	3.379464737	0.00072627	0.005658408	
0.287531432	8.03719344	9.1919E-16	8.42063E-14	IL32
0.505537428	4.566130761	4.9681E-06	8.31791E-05	OR52N4
0.474121091	4.862874663	1.1569E-06	2.35961E-05	RNU1-2
0.209686052	10.98497325	4.5137E-28	1.10389E-25	PARP12
0.175742966	13.10524726	3.0726E-39	1.50288E-36	APOL6
0.840293184	2.740752914	0.00612986	0.030824849	
0.394015142	5.833190504	5.4377E-09	1.90224E-07	SEPTIN4
0.659312627	3.484694038	0.0004927	0.004122037	U2
0.57632326	3.982190067	6.8283E-05	0.000792704	TRPA1
0.286451573	8.007466785	1.171E-15	1.05853E-13	RBM11
0.132757243	17.26122835	9.213E-67	2.52353E-63	PSME2
0.226773535	10.10480678	5.2599E-24	9.23554E-22	TRAFD1
0.617949201	3.688498521	0.00022558	0.002155179	
0.730125141	3.121771649	0.00179766	0.01158856	IL2RA
0.178676317	12.75111766	3.0731E-37	1.27537E-34	SCO2
0.588116486	3.871273638	0.00010827	0.00117495	RNA5S11
0.189488854	12.01489651	2.9674E-33	9.34256E-31	RNF213
0.565410145	4.025313344	5.6899E-05	0.000676741	TNF

0.361994373	6.285502472	3.2679E-10	1.47224E-08	TNFRSF6B
0.620683818	3.664668424	0.00024766	0.002336767	RNA5S12
0.602737225	3.764186306	0.00016709	0.001683275	CCL15
0.221098374	10.25869763	1.0816E-24	2.0431E-22	NUB1
0.821542669	2.755322548	0.00586343	0.029721599	U2
0.832046393	2.719903771	0.00653009	0.03237975	IL6
0.478361861	4.72785167	2.2691E-06	4.25409E-05	
0.156832759	14.40666617	4.6985E-47	3.20168E-44	PSMB8
0.446757299	5.056376718	4.273E-07	9.90194E-06	RNU1-3
0.343139887	6.58020333	4.6981E-11	2.46522E-09	SLFN12L
0.232593894	9.678407706	3.7247E-22	5.42679E-20	PNPT1
0.328881838	6.825394416	8.7684E-12	5.11012E-10	MT1M
0.437759037	5.120722532	3.0437E-07	7.32594E-06	U1
0.335623084	6.667812406	2.5964E-11	1.42523E-09	MIR3945HG
0.462769056	4.828055196	1.3787E-06	2.74254E-05	RNVU1-28
0.627486585	3.543814403	0.00039438	0.003433738	SERPINB2
0.798603231	2.782944243	0.00538681	0.027755833	
0.699500741	3.176274639	0.0014918	0.01003543	OTOGL
0.650391857	3.409459245	0.00065092	0.005192607	ELAVL4
0.579985835	3.823313027	0.00013167	0.001383424	RNA5S6
0.802740663	2.756985796	0.00583369	0.029601809	U2
0.759952367	2.905781912	0.00366337	0.020486582	CCL11
0.216748851	10.18411202	2.3348E-24	4.26353E-22	TDRD7
0.409664454	5.366622432	8.0225E-08	2.21293E-06	CLEC4E
0.394340576	5.569998822	2.5474E-08	7.83121E-07	
0.308363124	7.103969336	1.2122E-12	7.77621E-11	SERPINB9P1
0.647155489	3.384745422	0.00071244	0.005569214	FAM187B2P
0.417116207	5.250885117	1.5137E-07	3.91518E-06	DRAXIN
0.646163506	3.38809553	0.0007038	0.005512644	
0.76961612	2.8432857	0.0044651	0.023943544	RPS19P3
0.196743499	11.0989836	1.2688E-28	3.15939E-26	DTX3L
0.667278665	3.271688913	0.00106907	0.007693198	U2
0.581670774	3.752830886	0.00017485	0.001746002	
0.258213615	8.453105953	2.8365E-17	2.90995E-15	SLAMF7
0.292219532	7.467039253	8.2019E-14	6.07187E-12	IL15
0.188259673	11.58272132	5.042E-31	1.4692E-28	CASP1
0.411380721	5.290194083	1.2219E-07	3.25566E-06	ACSM5
0.458248611	4.748993437	2.0443E-06	3.88321E-05	RNU1-28P
0.284428744	7.642926864	2.1234E-14	1.66652E-12	FST
0.741489309	2.929515141	0.00339491	0.019300551	
0.544282166	3.976160607	7.0037E-05	0.000809101	FBXO39
0.270974603	7.984212268	1.4142E-15	1.26179E-13	BTC
0.607364956	3.554617423	0.00037853	0.003321044	PRKAG2-AS2
0.668372641	3.224966608	0.00125987	0.008787675	H2AC15
0.380036996	5.666511862	1.4573E-08	4.71286E-07	CIITA
0.769996539	2.795372977	0.00518399	0.026969532	
0.3292168	6.532660046	6.4612E-11	3.32041E-09	GIMAP7
0.400450427	5.369305644	7.904E-08	2.18245E-06	
0.307986404	6.976748573	3.0209E-12	1.85945E-10	JAK2
0.233035439	9.216422087	3.0718E-20	3.93175E-18	MOV10
0.602126071	3.56170031	0.00036846	0.003247269	KIF19
0.635747565	3.372408503	0.00074514	0.005780274	IFITM3P1

0.327859041	6.532191508	6.4814E-11	3.32458E-09	
0.427553667	4.998254946	5.7851E-07	1.2904E-05	IGF2BP3
0.177266211	12.05398696	1.8479E-33	5.95482E-31	EIF2AK2
0.353424073	6.031278194	1.6267E-09	6.35611E-08	RNU1-1
0.235033647	9.068931733	1.2019E-19	1.47628E-17	
0.222093746	9.595423394	8.3573E-22	1.16794E-19	LILRB4
0.231173215	9.207155843	3.3488E-20	4.23092E-18	
0.305144994	6.973536285	3.0907E-12	1.89816E-10	UNC93B7
0.248696916	8.546845578	1.265E-17	1.35348E-15	PPM1K
0.496726646	4.273895328	1.9209E-05	0.000267076	PLA2G2D
0.585287306	3.62423235	0.00028982	0.002660351	
0.615428045	3.446420029	0.00056807	0.004647525	TACR2
0.50820081	4.172809221	3.0087E-05	0.000392431	SYT15-AS1
0.778726933	2.723135174	0.00646656	0.032134529	IDO2
0.228126281	9.293411694	1.4942E-20	1.93055E-18	LGALS3BP
0.259489863	8.166590472	3.1723E-16	3.02759E-14	FAM124A
0.483300752	4.377933276	1.1981E-05	0.000178354	SNORD3B-1
0.516066	4.098616478	4.1563E-05	0.000519363	
0.290560586	7.26446034	3.7453E-13	2.5456E-11	STAP1
0.277483574	7.596506316	3.0423E-14	2.34739E-12	NINJ1
0.739489105	2.846512257	0.0044201	0.023753785	SMANTIS
0.178622005	11.78149797	4.8621E-32	1.44759E-29	B2M
0.353306195	5.946941116	2.732E-09	1.01812E-07	RN7SL834P
0.243128147	8.625656406	6.3726E-18	7.06689E-16	OPTN
0.432364051	4.838989008	1.305E-06	2.61681E-05	SNORD3A
0.54091564	3.852805968	0.00011677	0.001252349	RNU7-40P
0.271201938	7.676296669	1.6375E-14	1.30769E-12	LIPG
0.21491311	9.686439423	3.4432E-22	5.04351E-20	HMGB1P3
0.798908996	2.605603592	0.00917125	0.04215637	INSL3
0.613945155	3.385981357	0.00070924	0.005548943	RNU2-2P
0.783087946	2.650157672	0.00804542	0.038047676	GJC3
0.408536108	5.078555734	3.8031E-07	8.91121E-06	
0.564068403	3.677775433	0.00023528	0.002236887	RNA5S5
0.363746192	5.700567593	1.1941E-08	3.91236E-07	CYP2C18
0.709957032	2.915149683	0.00355518	0.020004094	RNU4-2
0.158676973	13.01688553	9.8091E-39	4.63242E-36	SP100
0.234066692	8.798378337	1.3881E-18	1.5711E-16	
0.508665979	4.047218049	5.183E-05	0.000623485	
0.790584739	2.600336079	0.00931325	0.042644473	
0.361410288	5.683617574	1.3187E-08	4.29001E-07	H2BC5
0.349415448	5.872960211	4.2808E-09	1.52083E-07	CD69
0.164419255	12.47828645	9.8075E-36	3.58182E-33	PDCD1LG2
0.756001415	2.711362429	0.00670073	0.033038719	TRIL
0.27916018	7.33604414	2.2E-13	1.55711E-11	H2BC21
0.374799148	5.447015002	5.1222E-08	1.47532E-06	LGALS9C
0.589475885	3.462560695	0.00053506	0.004423743	CYP21A1P
0.3366138	6.061506976	1.3485E-09	5.34803E-08	XCL2
0.437930357	4.656060371	3.2232E-06	5.81066E-05	MIR155HG
0.282840319	7.203513082	5.8681E-13	3.89182E-11	SAMHD1
0.193216656	10.54407603	5.4102E-26	1.12266E-23	CNP
0.199098559	10.21599134	1.6815E-24	3.11205E-22	ATRIP
0.259555964	7.836402729	4.6364E-15	3.95623E-13	TAGAP

0.307268801	6.616135235	3.6871E-11	1.95724E-09	MT2A
0.208907802	9.710090232	2.731E-22	4.04343E-20	UNC93B1
0.247726516	8.180102175	2.836E-16	2.72568E-14	BISPR
0.52293674	3.870883972	0.00010844	0.001175433	TRAF1
0.646663921	3.129793605	0.00174929	0.011365002	U2
0.359147423	5.633254663	1.7684E-08	5.61303E-07	MIR6891
0.272416767	7.423077909	1.1443E-13	8.336E-12	HLA-L
0.263528935	7.662239776	1.8272E-14	1.44648E-12	XRN1
0.142071281	14.21202867	7.7157E-46	4.69649E-43	TRIM69
0.365218212	5.522538737	3.3414E-08	9.96985E-07	CFHR1
0.750452435	2.686517682	0.00722011	0.035064912	H2BC8
0.578165412	3.486908625	0.00048864	0.004091804	ADPGK-AS1
0.580855961	3.462601506	0.00053498	0.004423743	LINC01915
0.415559478	4.827673999	1.3814E-06	2.74562E-05	
0.377819582	5.308824387	1.1033E-07	2.95712E-06	H2BC11
0.269139599	7.451910546	9.1998E-14	6.77398E-12	HLA-L
0.401011007	5.001132708	5.6994E-07	1.27336E-05	RNVU1-18
0.57008725	3.509103361	0.00044962	0.003837814	KCNH4
0.236879351	8.437245956	3.249E-17	3.32067E-15	TGM1
0.202350073	9.873947275	5.3997E-23	8.6493E-21	RNF114
0.182302133	10.956726	6.1691E-28	1.49538E-25	DYNLT1
0.571290131	3.494535569	0.00047489	0.003999889	LINC02159
0.22015657	9.040491196	1.5597E-19	1.89874E-17	HES4
0.35330528	5.627685741	1.8264E-08	5.77689E-07	GIMAP5
0.36375799	5.461887483	4.711E-08	1.37129E-06	CSF2RB
0.250962038	7.901830818	2.7484E-15	2.38985E-13	CTRL
0.547901036	3.611410439	0.00030454	0.002774968	RN7SL832P
0.480205797	4.119420821	3.7983E-05	0.000479659	RFX5-AS1
0.322237443	6.135977743	8.4637E-10	3.53398E-08	GIMAP4
0.338142102	5.841552848	5.1716E-09	1.81378E-07	TNFAIP2
0.541078545	3.648955552	0.00026331	0.002464054	EBI3
0.207657546	9.507653907	1.9501E-21	2.67077E-19	SP140
0.428959372	4.594841207	4.3308E-06	7.42797E-05	LINC01610
0.244078319	8.054200123	8E-16	7.45336E-14	ATF3
0.349897445	5.610376351	2.0189E-08	6.31266E-07	RIPK2-DT
0.333537073	5.88177077	4.059E-09	1.45244E-07	
0.420831896	4.655589876	3.2305E-06	5.81774E-05	RNVU1-29
0.479262602	4.075182329	4.5978E-05	0.000566273	CAND2
0.33601013	5.809858185	6.2526E-09	2.17065E-07	CFH
0.620001017	3.143296711	0.00167056	0.010957476	
0.605656433	3.213268907	0.00131233	0.009068146	U2
0.64112083	3.031881316	0.00243035	0.014770279	LINC00173
0.199087941	9.760690461	1.6602E-22	2.52638E-20	HLA-B
0.52676286	3.688905395	0.00022522	0.002152731	IL12RB2
0.678149114	2.860743019	0.00422649	0.022974384	
0.48506906	3.993318961	6.5155E-05	0.000761372	RNU1-4
0.398887983	4.852242024	1.2207E-06	2.47133E-05	
0.76036417	2.544403358	0.01094646	0.048220405	
0.34730858	5.56331072	2.647E-08	8.11019E-07	GIMAP1-GIMA
0.234252416	8.246064865	1.637E-16	1.60135E-14	TRIM14
0.551165494	3.503774629	0.00045871	0.003896006	TFPI2
0.62594988	3.082814036	0.00205053	0.01285605	C1QL1

0.274084459	7.040364411	1.9174E-12	1.20733E-10	APOBEC3D
0.597657339	3.226882159	0.00125147	0.008735732	
0.302080253	6.361500603	1.9979E-10	9.37073E-09	TCN2
0.635002137	3.014563324	0.00257349	0.015408556	CLC
0.319828873	5.983586898	2.1828E-09	8.2809E-08	CD80
0.413418243	4.624274504	3.7591E-06	6.60934E-05	C19orf38
0.261955034	7.295864727	2.9675E-13	2.05777E-11	RAMP3
0.375905804	5.077444522	3.8255E-07	8.94816E-06	GZMH
0.302304266	6.30683881	2.8479E-10	1.30615E-08	ELOVL3
0.305931269	6.231781749	4.6116E-10	2.0243E-08	ACKR4
0.701546906	2.71689951	0.00658966	0.032592526	
0.491310524	3.879328573	0.00010475	0.00114763	
0.291756878	6.531551034	6.5092E-11	3.33259E-09	CD40
0.378538582	5.033799803	4.8085E-07	1.10218E-05	GORAB-AS1
0.291473952	6.535688284	6.3318E-11	3.26003E-09	CALCRL-AS1
0.210276028	9.046000728	1.483E-19	1.81344E-17	GTPBP1
0.420457881	4.520960936	6.156E-06	0.000100727	ARL9
0.743331209	2.556197918	0.01058229	0.047006383	DPYS
0.538146666	3.52691485	0.00042043	0.0036214	
0.696476469	2.724323674	0.00644333	0.032048179	GPR150
0.560574295	3.379410723	0.00072641	0.005658408	CYP2C9
0.194276488	9.7472368	1.8956E-22	2.85284E-20	HLA-H
0.725510853	2.608017021	0.00910684	0.041895453	U2
0.149749841	12.62687849	1.5012E-36	5.87403E-34	RBCK1
0.622849714	3.02969757	0.00244799	0.014834695	IFITM3P2
0.387879782	4.854883928	1.2046E-06	2.44403E-05	
0.672199997	2.799691988	0.00511514	0.026738315	CYP2C19
0.350305059	5.369429476	7.8986E-08	2.18245E-06	GPR141
0.531889527	3.535420291	0.00040713	0.003524531	DIRC3
0.298867425	6.286662214	3.2436E-10	1.4637E-08	NTNG2
0.176474371	10.57468764	3.9048E-26	8.16453E-24	HLA-C
0.335669981	5.554467729	2.7846E-08	8.4749E-07	KIAA1755
0.17816232	10.46382132	1.2664E-25	2.55064E-23	NFE2L3
0.263836655	7.056109543	1.7123E-12	1.08068E-10	LINC01303
0.407297221	4.567113952	4.9449E-06	8.31225E-05	
0.286592995	6.48826783	8.6829E-11	4.32423E-09	PABIR3
0.279291219	6.656153859	2.8109E-11	1.53066E-09	HLA-K
0.174086581	10.63674954	2.0102E-26	4.40491E-24	ADAR
0.489750019	3.777846607	0.00015819	0.001608982	
0.379829514	4.869029945	1.1215E-06	2.29755E-05	GPR84
0.247874631	7.460115149	8.6447E-14	6.38239E-12	CTSS
0.181953042	10.16250097	2.915E-24	5.25297E-22	CMTR1
0.520882766	3.548961724	0.00038675	0.003382363	
0.368120836	5.020152998	5.163E-07	1.17362E-05	
0.370757881	4.983577952	6.2419E-07	1.37992E-05	
0.206303831	8.954321587	3.4183E-19	4.03582E-17	BLZF1
0.54049851	3.41413363	0.00063985	0.005120123	ARHGAP29-AS1
0.713208981	2.580386328	0.00986898	0.044580304	RPS27P6
0.659383013	2.7845266	0.00536059	0.027667606	LINC01260
0.606155145	3.028700704	0.00245608	0.014865083	TMPRSS7
0.638554489	2.868119713	0.00412919	0.022521449	PEF1-AS1
0.323538081	5.639249617	1.7079E-08	5.43975E-07	TCIM

0.277137453	6.578065349	4.7661E-11	2.49614E-09	
0.665628005	2.738225538	0.00617717	0.030988801	TFAP2A-AS1
0.701200596	2.597066091	0.00940238	0.042973582	
0.465831374	3.907350035	9.3314E-05	0.001037992	LTA
0.594691666	3.047726259	0.0023058	0.014154669	MT1CP
0.439982434	4.105795541	4.0293E-05	0.000506263	ZNF541
0.341863308	5.282414828	1.2749E-07	3.36754E-06	UNC93B8
0.22894731	7.87459885	3.4184E-15	2.95372E-13	LINC02904
0.647465769	2.782020149	0.00540217	0.027808833	
0.513190623	3.505452228	0.00045583	0.003877547	ACY3
0.618749711	2.903451475	0.00369074	0.020618622	H3C10
0.682977026	2.625921041	0.00864149	0.040248078	CCL1
0.348478138	5.142599909	2.7096E-07	6.57972E-06	GIMAP8
0.13829522	12.9440705	2.5382E-38	1.17835E-35	CHMP5
0.372063043	4.810091999	1.5086E-06	2.96856E-05	
0.304671116	5.873693583	4.2619E-09	1.51805E-07	FPR2
0.329482791	5.419058951	5.9914E-08	1.70591E-06	LINC02861
0.363717738	4.90878988	9.164E-07	1.91903E-05	CFHR3
0.3596572	4.961906434	6.9805E-07	1.5211E-05	ACKR4P1
0.174252792	10.2299277	1.4563E-24	2.73212E-22	HLA-A
0.256835665	6.929139518	4.2341E-12	2.56017E-10	BTN3A3
0.207686349	8.529657709	1.4678E-17	1.55231E-15	APOBEC3F
0.328925113	5.378771381	7.4996E-08	2.08549E-06	HCAR3
0.325646671	5.42519033	5.7893E-08	1.6501E-06	EGFL6
0.343994225	5.135027708	2.821E-07	6.82603E-06	NUAK2
0.525630784	3.359758093	0.00078011	0.005993808	CD46P1
0.502505702	3.51258464	0.00044377	0.003797351	LINC00595
0.354272926	4.971786742	6.6339E-07	1.45483E-05	FGL2
0.38546093	4.566218931	4.966E-06	8.31791E-05	DNER
0.229302724	7.672612928	1.6853E-14	1.3419E-12	SUSD3
0.342223847	5.127796413	2.9315E-07	7.07468E-06	DOP1A
0.373497032	4.698230216	2.6243E-06	4.81776E-05	
0.278161025	6.304279344	2.8954E-10	1.32179E-08	PRF1
0.169335975	10.34186598	4.5558E-25	8.78786E-23	
0.627001745	2.788894929	0.00528882	0.027353875	
0.140920937	12.39562677	2.7598E-35	9.81734E-33	PSME1
0.365558115	4.776703759	1.7819E-06	3.44693E-05	VN1R105P
0.500132045	3.487959451	0.00048672	0.00407825	TNFAIP3
0.300692899	5.787143385	7.1593E-09	2.44516E-07	NOCT
0.264710648	6.560211467	5.3732E-11	2.78742E-09	JADE2
0.401041384	4.329361244	1.4954E-05	0.000214906	MIR6125
0.580870175	2.983916861	0.00284584	0.016698892	LINC01686
0.241010897	7.170753278	7.4586E-13	4.87587E-11	GLRX
0.538285619	3.206849281	0.00134197	0.009222677	RXFP1
0.298235838	5.788001771	7.1229E-09	2.43878E-07	H2AC6
0.278447591	6.19886031	5.6873E-10	2.46881E-08	
0.505516751	3.41233835	0.00064408	0.005147265	DKK2
0.421572912	4.090772821	4.2994E-05	0.000533595	TMPRSS3
0.625859764	2.749480012	0.00596899	0.030176562	HIVEP2-DT
0.433634357	3.962131619	7.4284E-05	0.000851339	LINC02605
0.173019501	9.91880616	3.4486E-23	5.62259E-21	NAPA
0.39379605	4.355665353	1.3266E-05	0.00019432	RIPOR3

0.170200781	10.04844657	9.3327E-24	1.58778E-21	
0.311814592	5.477417334	4.3158E-08	1.26975E-06	UNC93B5
0.254780513	6.690186504	2.2289E-11	1.23835E-09	UBA7
0.223150007	7.617218055	2.592E-14	2.01698E-12	SLC16A4
0.225480005	7.533704188	4.9321E-14	3.69111E-12	ARID5A
0.271956245	6.237597831	4.4434E-10	1.95674E-08	NCOA7
0.537153576	3.156401961	0.00159729	0.010598656	PDZK1IP1
0.64431187	2.624068523	0.00868863	0.040433278	RAB5C-AS1
0.614118992	2.751789768	0.00592706	0.030003323	TICAM2-AS1
0.120644475	13.98636548	1.8882E-44	1.03438E-41	LYSMD2
0.574749075	2.931931151	0.00336861	0.019178905	SPATA20P1
0.235231553	7.152992885	8.4906E-13	5.49802E-11	SCAMP1-AS1
0.658318007	2.553439324	0.01066649	0.047260712	
0.339478225	4.951231309	7.3745E-07	1.59303E-05	
0.230512692	7.285661452	3.201E-13	2.2085E-11	IL12RB1
0.318817981	5.265117758	1.401E-07	3.65821E-06	
0.602664363	2.782035839	0.00540191	0.027808833	CYP21A2
0.140010271	11.9680951	5.2214E-33	1.60695E-30	PHF11
0.303710007	5.511987067	3.548E-08	1.05587E-06	MIR5193
0.140343716	11.9241666	8.8566E-33	2.69545E-30	OGFR
0.347609359	4.811961189	1.4946E-06	2.94303E-05	HLA-DQA1
0.195758315	8.533546553	1.4193E-17	1.50681E-15	TNFRSF4
0.43755079	3.812249356	0.00013771	0.001433659	RNVU1-7
0.597326101	2.79097603	0.00525494	0.027230034	PKN2-AS1
0.328693428	5.063379979	4.1189E-07	9.57726E-06	MMP25-AS1
0.21689276	7.667793379	1.7498E-14	1.38924E-12	NLRC5
0.281400605	5.902414192	3.5822E-09	1.30306E-07	KIF17
0.230203688	7.202713431	5.9026E-13	3.90526E-11	MIR3614
0.507567347	3.265117576	0.00109419	0.007811014	
0.531213926	3.119249923	0.00181312	0.011668984	LLPHP3
0.45093454	3.66857773	0.0002439	0.002306893	SUGCT-AS1
0.385788386	4.286924065	1.8116E-05	0.000254215	SCIMP
0.163912633	10.08706426	6.3026E-24	1.09263E-21	TRIM25
0.284902342	5.785827712	7.2156E-09	2.45842E-07	IGFLR1
0.156907796	10.50531873	8.1647E-26	1.65658E-23	PSMA4
0.373842796	4.399811759	1.0834E-05	0.000163209	H4C8
0.381443814	4.307616796	1.6502E-05	0.000233841	PPM1J
0.269048329	6.106300812	1.0197E-09	4.18109E-08	SNX10
0.252117158	6.514990892	7.2694E-11	3.68719E-09	CGAS
0.502700815	3.26708411	0.00108661	0.007777225	CYP3A7
0.270679334	6.059728018	1.3635E-09	5.39713E-08	SAT1
0.428728485	3.811503084	0.00013812	0.001437448	MICB-DT
0.346079245	4.721612283	2.3398E-06	4.36879E-05	GSDMC
0.331942854	4.912562451	8.9894E-07	1.88944E-05	BIRC3
0.277746301	5.863912819	4.5208E-09	1.59575E-07	PSMA6P1
0.217700354	7.467268229	8.1877E-14	6.07187E-12	IL1RN
0.26616963	6.097374968	1.0782E-09	4.39514E-08	
0.313792541	5.165235117	2.4014E-07	5.90448E-06	MUC15
0.598692641	2.702805651	0.00687569	0.033702957	BCO1
0.592984898	2.728450424	0.00636327	0.031713283	
0.155869476	10.37144801	3.3442E-25	6.49649E-23	TRIM5
0.328144382	4.923613106	8.4961E-07	1.79842E-05	HLA-DOA

0.305916128	5.276662303	1.3156E-07	3.4558E-06	SOD2
0.272794937	5.914734287	3.3241E-09	1.21889E-07	
0.197397096	8.170264916	3.0771E-16	2.94705E-14	TRIM38
0.271183507	5.937375055	2.8962E-09	1.07639E-07	CD74
0.281839403	5.711317279	1.1211E-08	3.68628E-07	
0.186999235	8.601879112	7.8421E-18	8.59216E-16	HLA-E
0.57311611	2.803909792	0.0050487	0.026442623	CXCL14
0.293159697	5.473312019	4.417E-08	1.29536E-06	HELB
0.204927847	7.823893766	5.1214E-15	4.34304E-13	PSMA6
0.557131027	2.875323148	0.00403614	0.02215626	XAGE1A
0.234051162	6.842541344	7.78E-12	4.54378E-10	TAPBPL
0.425643297	3.761836613	0.00016867	0.00169543	CSF2
0.622076146	2.5728113	0.01008762	0.045341315	LIF-AS2
0.323879244	4.93760442	7.9088E-07	1.6911E-05	HLA-DQA2
0.597353508	2.676416065	0.00744142	0.035914321	
0.188296353	8.485258629	2.1524E-17	2.25024E-15	SLC31A2
0.259990581	6.141589964	8.17E-10	3.42176E-08	HLA-DRB6
0.259987547	6.138218513	8.3452E-10	3.48982E-08	HLA-DRB6
0.297390865	5.356229987	8.4976E-08	2.32526E-06	CASP4LP
0.195837658	8.128626877	4.3418E-16	4.12939E-14	IFI16
0.540538272	2.94245138	0.00325625	0.018655495	
0.276365861	5.753940369	8.7187E-09	2.93383E-07	CH25H
0.232681973	6.822701936	8.9344E-12	5.19579E-10	BTN3A1
0.494285217	3.210280527	0.00132605	0.009139902	
0.229780054	6.904546423	5.0364E-12	3.02527E-10	SIDT1
0.158995555	9.977347556	1.9152E-23	3.21832E-21	IKBKE
0.197023842	8.044664042	8.6482E-16	7.96821E-14	ATF5
0.34273521	4.618133011	3.8721E-06	6.74254E-05	MCOLN2
0.189952581	8.332578625	7.91E-17	7.9364E-15	IFITM2
0.397983065	3.975764321	7.0154E-05	0.000810108	C2CD4B
0.236042723	6.700516473	2.0768E-11	1.15859E-09	GOLM1
0.489040505	3.232156271	0.0012286	0.008600189	ACTN2
0.385676178	4.093796047	4.2437E-05	0.000528357	
0.474548405	3.325977402	0.00088109	0.006590376	MAP3K15
0.565607386	2.788903974	0.00528867	0.027353875	
0.220074949	7.166712862	7.682E-13	4.99804E-11	C1S
0.611067558	2.57998433	0.00988048	0.044622626	NEU4
0.236148267	6.664365028	2.6581E-11	1.45327E-09	GSTK1
0.201902831	7.78352087	7.0534E-15	5.83681E-13	C1R
0.394008133	3.986935253	6.6932E-05	0.000779482	ZC3H12A
0.335465079	4.675453647	2.933E-06	5.32995E-05	CYP27B1
0.594237687	2.637328462	0.00835619	0.039218125	RNU6-8
0.298438887	5.249853705	1.5222E-07	3.93345E-06	ICAM1
0.225938571	6.930820266	4.1841E-12	2.54115E-10	CHAC1
0.276642454	5.660486338	1.5094E-08	4.86415E-07	TMEM268
0.159757925	9.771335487	1.4947E-22	2.2872E-20	MYD88
0.21631024	7.216343112	5.3404E-13	3.57652E-11	
0.429966266	3.629178687	0.00028432	0.002621156	LINC02984
0.489992683	3.179218697	0.00147673	0.009948109	KCNB1
0.478270489	3.254439175	0.00113616	0.008031146	NPAS3
0.194988862	7.980237538	1.4605E-15	1.29466E-13	PLEKHA4
0.43023048	3.612829692	0.00030287	0.002761655	

0.341272001	4.550336852	5.356E-06	8.9075E-05	BCL10-AS1
0.173845471	8.930007822	4.2598E-19	4.9651E-17	GIMAP2
0.182276267	8.510356741	1.734E-17	1.81976E-15	KCTD14
0.364522642	4.254369267	2.0964E-05	0.000287926	TRPC3
0.23838707	6.503387582	7.8531E-11	3.94687E-09	IL10RA
0.358806366	4.31968406	1.5625E-05	0.000222796	FRMD3
0.165050305	9.390565193	5.9679E-21	7.89696E-19	PSMA2
0.193397893	8.011455795	1.1336E-15	1.02815E-13	TMEM62
0.398476971	3.88756731	0.00010125	0.001111602	CADM3
0.215664049	7.175998484	7.1781E-13	4.70374E-11	THEMIS2
0.324216616	4.772617183	1.8185E-06	3.50526E-05	MYEOV
0.316078369	4.888344279	1.0169E-06	2.10531E-05	TVP23A
0.224437318	6.869001986	6.4653E-12	3.84143E-10	BBC3
0.310547559	4.959885458	7.0535E-07	1.53307E-05	CASP5
0.249752794	6.14571827	7.9602E-10	3.34416E-08	CASP10
0.541659869	2.830657732	0.00464524	0.024696772	RBP5
0.508337265	3.015859527	0.00256252	0.015380761	SNRPGP2
0.170617234	8.979883788	2.7105E-19	3.228E-17	FLT3LG
0.21174322	7.210272414	5.584E-13	3.73052E-11	MICB
0.375682399	4.05270367	5.0629E-05	0.000612807	
0.461920944	3.295044449	0.00098406	0.007182099	
0.348023311	4.370476431	1.2398E-05	0.00018336	PDCD1
0.337725959	4.498759659	6.8351E-06	0.000109742	IGFBP7-AS1
0.200519694	7.576618773	3.5468E-14	2.6986E-12	RND3
0.249472085	6.089378856	1.1335E-09	4.57255E-08	DDO
0.220431492	6.886839747	5.7045E-12	3.41911E-10	TLE4
0.397677294	3.817260093	0.00013494	0.001410223	RPAP3-DT
0.179064016	8.461256442	2.6451E-17	2.72461E-15	STOML1
0.297462691	5.092929386	3.5257E-07	8.36132E-06	POMC
0.323160632	4.687402942	2.7669E-06	5.05589E-05	HCG4
0.399947578	3.784264306	0.00015416	0.001575722	PLAC1
0.205880357	7.346761159	2.0307E-13	1.44473E-11	LACTB
0.30824191	4.900007848	9.5833E-07	1.99768E-05	DIP2C-AS1
0.175195481	8.616955931	6.8758E-18	7.56361E-16	TAPBP
0.214906351	7.019926553	2.2198E-12	1.38822E-10	SLC37A1
0.457125987	3.29912509	0.00096987	0.007105007	SLC6A12
0.238350722	6.324898769	2.534E-10	1.17244E-08	PRKAR1B-AS1
0.246209316	6.11758547	9.5004E-10	3.91696E-08	SLCO4A1-AS2
0.20789723	7.238797784	4.5268E-13	3.05402E-11	PARP8
0.413757739	3.627383256	0.00028631	0.002635066	FASLG
0.143806717	10.39876335	2.5117E-25	4.91417E-23	GSDMD
0.520933149	2.870567236	0.00409736	0.022379023	SPTA1
0.230194625	6.483336178	8.9716E-11	4.43577E-09	NFKBIE
0.584646283	2.550930644	0.01074357	0.047540733	LINC01220
0.317933928	4.684941109	2.8004E-06	5.10352E-05	PDE4B
0.241437137	6.163893571	7.0978E-10	3.03299E-08	RGL1
0.411095959	3.618584754	0.00029622	0.002707281	
0.243627661	6.096684778	1.0829E-09	4.40742E-08	STAP2
0.298469736	4.970881053	6.6649E-07	1.45931E-05	HLA-G
0.495628709	2.986183711	0.00282483	0.016611182	CYP3A7-CYP3A
0.306446204	4.828080137	1.3786E-06	2.74254E-05	ZNF503-AS1
0.363315404	4.071480619	4.6715E-05	0.000573802	RNA5-8SN5

0.400507368	3.683944811	0.00022965	0.002191013	BAK1P1
0.570555001	2.583316984	0.00978554	0.044261501	HCG20
0.154890495	9.514991755	1.8173E-21	2.50135E-19	
0.572590272	2.572153213	0.01010682	0.045405245	DUX4L27
0.176934544	8.321325834	8.6985E-17	8.664E-15	IRF9
0.194688589	7.554326693	4.2103E-14	3.18747E-12	CLDN23
0.22158536	6.621720193	3.5504E-11	1.89571E-09	HLA-DRB5
0.209566363	6.992344353	2.7033E-12	1.66771E-10	IRF2
0.537564704	2.725776625	0.00641504	0.031930647	
0.485786746	3.015175635	0.0025683	0.015400271	
0.344905913	4.246617772	2.1702E-05	0.000296925	ABTB3
0.32523652	4.503185545	6.6942E-06	0.000107733	
0.369654543	3.955188992	7.6474E-05	0.00087243	
0.177491009	8.236880565	1.7676E-16	1.72299E-14	MCUB
0.237937962	6.128148434	8.8908E-10	3.6954E-08	TMEM106A
0.314168549	4.640662063	3.4729E-06	6.17711E-05	NUP153-AS1
0.324599553	4.487497979	7.2064E-06	0.000114896	MMP25
0.165937077	8.774839724	1.7115E-18	1.91796E-16	TRIM26
0.279590556	5.206428736	1.9251E-07	4.85546E-06	MIR4751
0.247101364	5.889389134	3.8763E-09	1.39887E-07	CCRL2
0.130060706	11.18054503	5.0777E-29	1.31211E-26	NUDCD1
0.271954376	5.338129061	9.3911E-08	2.55696E-06	
0.437219122	3.319535518	0.00090167	0.006704054	HOXD8
0.147634527	9.829480208	8.4051E-23	1.3081E-20	RAB24
0.20706254	7.001688541	2.529E-12	1.56367E-10	RHBDF2
0.146130533	9.918002076	3.4765E-23	5.63452E-21	C4orf33
0.349004904	4.145449245	3.3915E-05	0.000435927	STAG3
0.321847426	4.494835623	6.9624E-06	0.000111589	SLCO5A1
0.393014726	3.679840992	0.00023338	0.002221159	
0.213603689	6.757040647	1.4084E-11	8.07053E-10	RASGRF1
0.225963419	6.38385934	1.7268E-10	8.16903E-09	LGMN
0.221249186	6.51816438	7.1173E-11	3.6236E-09	HLA-DPA1
0.205671657	7.009458176	2.3924E-12	1.4826E-10	MSRB1
0.158388498	9.086568079	1.0221E-19	1.26115E-17	STX11
0.312660261	4.601047107	4.2037E-06	7.2236E-05	SLAMF8
0.128256773	11.21469528	3.4537E-29	9.00965E-27	TRADD
0.410838058	3.500534024	0.00046433	0.00393636	
0.176818604	8.128075831	4.3616E-16	4.13385E-14	
0.456743359	3.144246244	0.00166515	0.010937696	CITED4
0.240362679	5.974153768	2.3129E-09	8.75027E-08	LRCH2
0.530556372	2.70600188	0.00680987	0.033487897	PYCARD-AS1
0.310898018	4.607893437	4.0677E-06	7.0251E-05	CASP4LP
0.378807265	3.781198029	0.00015608	0.001591609	
0.257850456	5.546763788	2.9101E-08	8.83695E-07	NBN
0.324476351	4.407495211	1.0457E-05	0.000158077	5_8S_rRNA
0.197156485	7.252269127	4.0985E-13	2.77874E-11	TASL
0.444127594	3.218832259	0.00128714	0.008936878	
0.376554085	3.796273665	0.00014689	0.001511985	ACHE
0.28145597	5.078015538	3.814E-07	8.92894E-06	TGM2
0.249624399	5.721584823	1.0553E-08	3.49119E-07	ELOVL7
0.19545164	7.298458058	2.9108E-13	2.02363E-11	
0.533236402	2.671535264	0.00755051	0.036296266	PRDM6-AS1

0.207590918	6.855641736	7.0993E-12	4.19089E-10	SLFN12
0.240457084	5.906159997	3.5017E-09	1.27888E-07	ELMO2
0.499268662	2.838703955	0.00452972	0.024218906	MIR9-1HG
0.406222406	3.481540542	0.00049854	0.004165791	ADAMTSL4-AS1
0.185690481	7.607949414	2.7848E-14	2.15475E-12	CD48
0.282670875	4.995043964	5.8822E-07	1.30667E-05	SERPINB9
0.546439067	2.583695991	0.00977479	0.044225521	LINC03048
0.237803373	5.935623204	2.9273E-09	1.08648E-07	NT5E
0.374465334	3.767835012	0.00016467	0.001661924	LGALS2
0.221622339	6.359677488	2.0218E-10	9.45026E-09	H1-0
0.107505867	13.0966076	3.4431E-39	1.65454E-36	MT-RNR1
0.525673121	2.676760532	0.00743377	0.035886239	
0.196595002	7.156737629	8.262E-13	5.36264E-11	DAPP1
0.195285143	7.204587245	5.822E-13	3.87064E-11	BPGM
0.217813985	6.458535335	1.0572E-10	5.15268E-09	TMEM54
0.281273597	4.997395605	5.811E-07	1.29405E-05	GADD45G
0.212204084	6.622387119	3.5344E-11	1.89086E-09	HLA-DRA
0.310342281	4.519807468	6.1896E-06	0.000101097	C17orf67
0.551218913	2.543625743	0.01097086	0.048296805	ZPLD1
0.492264746	2.847680709	0.00440391	0.023694255	
0.264340626	5.300618792	1.1541E-07	3.08412E-06	ZNF267
0.109187866	12.82290493	1.2204E-37	5.14281E-35	
0.332724789	4.201569753	2.6507E-05	0.000352283	C1QTNF1
0.237785524	5.867844259	4.415E-09	1.5604E-07	MSX1
0.345859399	4.024830877	5.7016E-05	0.000677585	ST7-AS1
0.265275313	5.242090747	1.5877E-07	4.07572E-06	BMAL2
0.258280011	5.377418663	7.5561E-08	2.09909E-06	SLITRK2
0.190921736	7.273082116	3.5138E-13	2.41217E-11	CTNNBL1
0.312090105	4.445418436	8.7721E-06	0.000135802	RNA5-8SN3
0.173474999	7.993410212	1.3126E-15	1.18184E-13	USP15
0.32933483	4.208721693	2.5682E-05	0.000343484	5_8S_rRNA
0.53069184	2.608775496	0.00908668	0.041823786	GALNT8
0.461165512	2.996646475	0.00272967	0.016159155	ZFPM2-AS1
0.32978032	4.188803311	2.8043E-05	0.000368936	NFKBIA
0.273899047	5.039198863	4.6748E-07	1.07333E-05	PLEKHF1
0.173600249	7.935181166	2.1019E-15	1.84528E-13	BAK1
0.520700135	2.644887506	0.00817181	0.038519014	
0.146784034	9.373425825	7.0216E-21	9.15846E-19	MAX
0.22418057	6.117187012	9.5242E-10	3.91706E-08	DUSP5
0.214867786	6.377346245	1.8018E-10	8.4655E-09	CDKN1A
0.537560033	2.541627385	0.01103377	0.048495841	MNDA
0.268383612	5.088309644	3.6127E-07	8.53798E-06	SRGN
0.141906978	9.61895659	6.6502E-22	9.43816E-20	N4BP1
0.235407999	5.794971429	6.8333E-09	2.34256E-07	
0.188949832	7.218993779	5.2374E-13	3.51609E-11	AP5B1
0.137517471	9.915150439	3.5772E-23	5.76366E-21	CBR3
0.172059751	7.918126058	2.4112E-15	2.11004E-13	SELENOM
0.386349696	3.523664668	0.00042562	0.003660354	RN7SKP255
0.257807994	5.280079765	1.2913E-07	3.40745E-06	CLEC2B
0.263707334	5.160633952	2.4611E-07	6.02443E-06	HCAR2
0.279822256	4.860214353	1.1726E-06	2.38443E-05	MIR922
0.41436377	3.27675464	0.00105008	0.007582237	

0.245286391	5.534845703	3.115E-08	9.34541E-07	
0.301418005	4.502368323	6.72E-06	0.000108085	
0.171530019	7.908740967	2.6E-15	2.26809E-13	DNAJA1
0.172631669	7.84460823	4.3431E-15	3.72919E-13	PATL1
0.40048405	3.379118524	0.00072719	0.005661843	PI3
0.268934818	5.030589505	4.8897E-07	1.11519E-05	RMI2
0.478260813	2.825060992	0.00472716	0.02503997	
0.299404617	4.511253603	6.4446E-06	0.000104513	MVP-DT
0.133611982	10.09488062	5.8202E-24	1.01542E-21	ADPRS
0.171943617	7.841217108	4.462E-15	3.81933E-13	AGRN
0.14944881	9.019580437	1.8881E-19	2.27829E-17	PLEKHO1
0.269270024	5.004527891	5.5999E-07	1.25521E-05	MAPK8IP2
0.520827065	2.586939157	0.00968327	0.043891183	VSTM5
0.23914976	5.631834881	1.783E-08	5.65264E-07	IL3RA
0.215626525	6.236726089	4.4682E-10	1.96452E-08	TMEM60
0.235803289	5.699490259	1.2017E-08	3.93246E-07	FXYD3
0.279348621	4.807192588	1.5306E-06	3.00114E-05	
0.289640823	4.635876162	3.5543E-06	6.30541E-05	
0.308321775	4.345876387	1.3872E-05	0.000202219	ZBED10P
0.17625466	7.5818026	3.4079E-14	2.6074E-12	ZCCHC2
0.302751169	4.413315024	1.018E-05	0.000154489	STAC3
0.448442288	2.979411473	0.00288803	0.016888544	HIF1A-AS1
0.448904869	2.975895172	0.00292135	0.017050632	MEOX1
0.357794381	3.733226815	0.00018904	0.001867688	MYL12BP3
0.232708168	5.737492514	9.6089E-09	3.2019E-07	
0.372178598	3.58337475	0.00033918	0.003034523	C1orf167
0.19216701	6.926109095	4.3257E-12	2.60982E-10	TENT5A
0.215189652	6.18447731	6.2309E-10	2.68348E-08	SCLT1
0.435849901	3.053214167	0.00226404	0.013964062	CD2AP-DT
0.30095601	4.419643843	9.8864E-06	0.000150694	IFI30
0.401089835	3.313553519	0.00092118	0.006826886	PAIP1P1
0.229668363	5.785816035	7.2161E-09	2.45842E-07	HCP5
0.197363828	6.728005488	1.72E-11	9.7544E-10	CSRNP1
0.188882355	7.030095637	2.0639E-12	1.29366E-10	NUPR1
0.320321889	4.144233445	3.4095E-05	0.00043722	CYLD-AS1
0.284886125	4.659012176	3.1773E-06	5.73695E-05	CBLN3
0.281503931	4.709978284	2.4774E-06	4.59141E-05	ATXN7L1
0.21511101	6.162672167	7.1527E-10	3.05057E-08	ERAP2
0.188687264	7.019419361	2.2279E-12	1.39009E-10	CSF1
0.268538624	4.92841819	8.2898E-07	1.75884E-05	STARD5
0.445132937	2.971179903	0.00296658	0.017277818	HAR1A
0.296357708	4.452735026	8.4783E-06	0.000132024	AZIN2
0.187899222	7.017092791	2.2653E-12	1.41021E-10	
0.273150776	4.824076171	1.4065E-06	2.78975E-05	PSTPIP2
0.41179553	3.199604343	0.00137616	0.009425981	HS3ST3B1
0.149179878	8.831880691	1.0293E-18	1.17473E-16	PROCR
0.232333065	5.664930101	1.4708E-08	4.74534E-07	
0.44200028	2.968768165	0.00298996	0.017377417	
0.28969413	4.524910263	6.0421E-06	9.90422E-05	NKX3-1
0.212293356	6.1734824	6.6802E-10	2.86798E-08	ZC3H12A-DT
0.390429242	3.355715552	0.0007916	0.006060005	RSPO3
0.2093148	6.257152254	3.9207E-10	1.74621E-08	CFLAR

0.347319182	3.76245163	0.00016826	0.001691886	OVOL1
0.501974541	2.602807717	0.00924638	0.042394976	
0.419960332	3.107414411	0.00188732	0.012025001	CFAP58-DT
0.156087307	8.356652907	6.4523E-17	6.54572E-15	C1GALT1C1
0.194468868	6.702214715	2.0528E-11	1.14754E-09	GYPC
0.238585653	5.46266724	4.6903E-08	1.36673E-06	RELA
0.280428816	4.645360501	3.3948E-06	6.07367E-05	BTN2A2
0.152565213	8.536575602	1.3826E-17	1.47355E-15	SPATS2L
0.169949899	7.644516356	2.0973E-14	1.6508E-12	RFX5
0.237953855	5.455606176	4.8806E-08	1.41166E-06	H4C14
0.370457669	3.503350626	0.00045944	0.003901004	H2BC18
0.218672683	5.933470685	2.966E-09	1.09934E-07	HEXD
0.423072076	3.065717755	0.00217148	0.01349956	FAM177B
0.271943285	4.760121902	1.9348E-06	3.70077E-05	RNA5-8SN1
0.207004476	6.249418764	4.1198E-10	1.82895E-08	CLTRN
0.140443674	9.207057653	3.3519E-20	4.23092E-18	CASP4
0.246606143	5.2397394	1.608E-07	4.12027E-06	H2BC12L
0.34651015	3.727625227	0.00019329	0.001902435	XCL1
0.258277104	4.991408843	5.994E-07	1.32727E-05	
0.136230021	9.455160657	3.2253E-21	4.37342E-19	CTSC
0.176541225	7.293595365	3.0179E-13	2.08746E-11	SP140L
0.243933153	5.275357543	1.325E-07	3.47628E-06	CHROMR
0.424612966	3.030391532	0.00244237	0.014817038	ZG16B
0.17388684	7.393288064	1.4324E-13	1.03251E-11	MOB3C
0.296906966	4.32518448	1.524E-05	0.000218435	ANXA2R
0.251999634	5.093728969	3.5109E-07	8.33333E-06	LINC02591
0.220943048	5.801665335	6.566E-09	2.2594E-07	STAT5A
0.265355148	4.830393554	1.3626E-06	2.71644E-05	VSIG10L
0.396955086	3.22848677	0.00124447	0.00869273	GGT5
0.491922026	2.604491697	0.00920107	0.042215473	IFITM3P6
0.14622618	8.742128059	2.2876E-18	2.54714E-16	MXD3
0.420633114	3.038303632	0.00237914	0.014526762	SMIM6
0.2260271	5.651834915	1.5874E-08	5.10347E-07	FAS
0.287063079	4.448354684	8.6531E-06	0.000134153	5_8S_rRNA
0.258840839	4.929173252	8.2578E-07	1.75341E-05	EDN1
0.249109567	5.115468333	3.1296E-07	7.50646E-06	ZMYND15
0.332253037	3.834860872	0.00012564	0.001331249	RGS20
0.292065997	4.358037015	1.3123E-05	0.000192639	
0.277416733	4.5859189	4.5199E-06	7.70415E-05	C1QC
0.193223742	6.583393301	4.5983E-11	2.42682E-09	IFI27L1
0.198922495	6.391425515	1.6435E-10	7.79058E-09	RELB
0.232336038	5.461315539	4.7262E-08	1.37426E-06	PCNX1
0.341275079	3.716894574	0.00020169	0.00196878	NRN1
0.31140264	4.071816499	4.6648E-05	0.000573489	P2RX7
0.356387511	3.557092567	0.00037498	0.003297314	CCR7
0.284167518	4.45705312	8.3094E-06	0.000130133	LIFR
0.210251615	6.01331628	1.8177E-09	7.02221E-08	C1RL
0.163650422	7.714977227	1.21E-14	9.74828E-13	LINC00623
0.161862051	7.79203708	6.5937E-15	5.473E-13	
0.402932663	3.12522601	0.00177668	0.011495824	
0.301194823	4.180181317	2.9128E-05	0.000380829	RNA5-8SN2
0.317394151	3.96173943	7.4406E-05	0.000852026	

0.316078082	3.976982189	6.9795E-05	0.000806652	GRAMD1B
0.493745522	2.540677031	0.01106381	0.048581072	SLC12A5-AS1
0.156888134	7.993090101	1.316E-15	1.18184E-13	TINF2
0.161484013	7.764078015	8.2241E-15	6.76478E-13	FYTTD1
0.226651602	5.528978342	3.221E-08	9.63174E-07	HDX
0.27979198	4.47760907	7.5484E-06	0.000119721	KYNU
0.405386311	3.090010565	0.00200149	0.012614569	NKAPP1
0.170777335	7.325064603	2.3878E-13	1.68137E-11	RUBCN
0.358313207	3.490114293	0.00048281	0.004050462	
0.249846388	5.004546699	5.5994E-07	1.25521E-05	NGF
0.353184851	3.540047422	0.00040006	0.003473189	
0.359698238	3.475746176	0.00050943	0.004241311	RPPH1
0.186355593	6.706688104	1.9909E-11	1.11978E-09	ACP2
0.220270018	5.673446284	1.3995E-08	4.53663E-07	
0.23382613	5.325581669	1.0063E-07	2.721E-06	ABCD1
0.222192359	5.603258647	2.1036E-08	6.54766E-07	AMER1
0.22746929	5.471896985	4.4524E-08	1.30435E-06	HLA-DRB1
0.186420562	6.669711464	2.5631E-11	1.40985E-09	SDSL
0.421687196	2.947861107	0.00319981	0.018405279	LINC02009
0.221487145	5.606092987	2.0694E-08	6.44872E-07	SCIN
0.30587395	4.051465543	5.0898E-05	0.000615515	RNA5-8SN4
0.298740229	4.147091365	3.3673E-05	0.000434035	TNFAIP8
0.432782402	2.853888704	0.00431877	0.023369284	ARIH2OS
0.213874233	5.774345162	7.7253E-09	2.61562E-07	MIR6821
0.381087487	3.23930635	0.00119821	0.008421893	NKAPL
0.31811401	3.878661106	0.00010503	0.001148945	MT1A
0.234691784	5.256087896	1.4715E-07	3.82414E-06	
0.395773736	3.115041697	0.00183919	0.011791568	CCR3
0.243938836	5.053785941	4.3314E-07	1.00119E-05	WTAP
0.198780121	6.201761381	5.5835E-10	2.4353E-08	CIR1
0.287433827	4.283159314	1.8426E-05	0.000258027	
0.241666291	5.093828161	3.509E-07	8.33333E-06	
0.228418025	5.385218401	7.2357E-08	2.01825E-06	IL3RA
0.170003631	7.227270846	4.928E-13	3.31651E-11	PSMA3
0.256000649	4.794944469	1.6272E-06	3.17454E-05	GVINP1
0.194250375	6.310651754	2.7786E-10	1.277E-08	PLEK
0.380213264	3.221118703	0.00127691	0.008881643	CCR1
0.211867095	5.779452697	7.4944E-09	2.54058E-07	BTN3A2
0.333836013	3.660310906	0.00025191	0.002372525	HLA-DMB
0.235163312	5.195078719	2.0463E-07	5.12819E-06	LINC01138
0.24259133	5.031017005	4.8788E-07	1.11364E-05	LILRB2
0.320587203	3.803434528	0.0001427	0.001475575	ADAMTSL4-AS2
0.253458494	4.808472828	1.5209E-06	2.98626E-05	PRELID1P6
0.228216439	5.339301657	9.3305E-08	2.54301E-06	H4C15
0.260769994	4.671536285	2.9896E-06	5.42297E-05	LRRC61
0.332188561	3.665588035	0.00024677	0.00232999	
0.273413794	4.451430426	8.53E-06	0.000132603	
0.215833036	5.634487592	1.7558E-08	5.58572E-07	STK19
0.133042289	9.138840977	6.3125E-20	7.82381E-18	NECTIN2
0.231806316	5.241474898	1.593E-07	4.08552E-06	TXN
0.313983793	3.866478727	0.00011042	0.001194495	
0.196996025	6.162239818	7.1723E-10	3.05057E-08	TRIM34

0.274652343	4.409628262	1.0355E-05	0.000156788	TFEC
0.332950457	3.63571344	0.00027721	0.002565026	FAM107A
0.387905646	3.118997954	0.00181467	0.011673482	
0.358225691	3.375894015	0.00073576	0.005720486	LINC01232
0.179438414	6.737321654	1.6133E-11	9.18725E-10	C2
0.269801578	4.479257284	7.4903E-06	0.000118869	ANKRD53
0.291539103	4.144530688	3.4051E-05	0.000436877	VEGFC
0.256008162	4.717282935	2.3902E-06	4.45062E-05	WBP1LP2
0.340378689	3.546838334	0.00038988	0.003406477	PLEKHH1
0.251540928	4.795962425	1.619E-06	3.16072E-05	TSPAN33
0.285734052	4.209319563	2.5614E-05	0.000342911	
0.259898263	4.626783575	3.7139E-06	6.54614E-05	MT1E
0.31007874	3.875538922	0.00010639	0.001160888	TNFRSF18
0.45075879	2.664921601	0.00770063	0.036821853	
0.135723025	8.845796151	9.0878E-19	1.04152E-16	MMAA
0.150936574	7.942863223	1.9757E-15	1.74005E-13	PPA1
0.281660295	4.252441774	2.1145E-05	0.000289884	BCL2A1
0.200704967	5.961342715	2.5017E-09	9.387E-08	PARP11
0.167956904	7.114952804	1.1195E-12	7.19825E-11	ANKFY1
0.202199535	5.90361709	3.5562E-09	1.29531E-07	L3HYPDH
0.307377845	3.880450279	0.00010426	0.001143265	RMRP
0.330993755	3.600675525	0.00031739	0.002868251	RAB39A
0.244892672	4.864322536	1.1485E-06	2.34764E-05	HLA-DMA
0.113312313	10.50593782	8.1113E-26	1.65658E-23	DRAP1
0.12385607	9.605873077	7.5515E-22	1.06074E-19	RILP
0.347917785	3.41938545	0.00062763	0.005045889	ICOS
0.194821983	6.098328745	1.0718E-09	4.38187E-08	TRIM6-TRIM34
0.44605774	2.658713163	0.00784397	0.037352958	OSR2
0.381236896	3.108010589	0.00188351	0.01200359	
0.333829837	3.544163761	0.00039386	0.003430281	CASP12
0.121383524	9.735025073	2.1376E-22	3.18219E-20	SQOR
0.183998841	6.41977291	1.3648E-10	6.53542E-09	FKBP1B
0.238573076	4.945791712	7.5835E-07	1.63173E-05	C1QB
0.24357265	4.841657274	1.2876E-06	2.58569E-05	TSKU
0.255771727	4.608862917	4.0488E-06	7.00568E-05	PIWIL4
0.371243925	3.172289822	0.00151242	0.010146141	STC2
0.232098306	5.072348261	3.9294E-07	9.16057E-06	C3AR1
0.202596066	5.810775435	6.2184E-09	2.16153E-07	MSC
0.246000938	4.78537098	1.7067E-06	3.31786E-05	KIAA0040
0.310107666	3.795652108	0.00014726	0.00151464	GNA14
0.223995554	5.25248438	1.5006E-07	3.885E-06	NRK
0.43308433	2.713405806	0.00665955	0.032872345	COL17A1
0.26498506	4.432126765	9.3308E-06	0.000143343	B3GALNT1
0.350126279	3.353271407	0.00079862	0.006105624	
0.15936587	7.365523408	1.7645E-13	1.26194E-11	HIRA
0.368177921	3.184500557	0.00145004	0.009806927	RARRES1
0.34370089	3.408643158	0.00065287	0.005201487	KDM7A-DT
0.119875229	9.750849136	1.8293E-22	2.76833E-20	
0.31607405	3.696671651	0.00021844	0.002100918	PARAL1
0.290284674	4.023751842	5.7278E-05	0.000680065	FAM225B
0.330639202	3.531225675	0.00041364	0.00356625	
0.123936034	9.415150319	4.7241E-21	6.34298E-19	NDUFA9

0.237692597	4.90859241	9.1732E-07	1.91903E-05	GCA
0.425707744	2.739693221	0.00614966	0.03087905	LINC01679
0.271756592	4.291652079	1.7735E-05	0.000249244	RGS16
0.268173262	4.341185615	1.4172E-05	0.000205601	TIFA
0.210190506	5.537920496	3.0608E-08	9.22327E-07	DDIT3
0.25990819	4.474036929	7.6756E-06	0.000121388	RBM43
0.419871647	2.76412269	0.00570761	0.029113774	MGC16275
0.179906665	6.444940185	1.1565E-10	5.59657E-09	RHOH
0.161099776	7.19388406	6.2974E-13	4.14642E-11	CLIC2
0.155886683	7.42864659	1.0971E-13	8.01384E-12	UBALD2
0.272021378	4.256314357	2.0782E-05	0.0002862	
0.320913171	3.60273691	0.00031488	0.002851777	SBK3
0.187571736	6.162460555	7.1623E-10	3.05057E-08	CNDP2
0.270619697	4.265661013	1.9931E-05	0.000275724	CXCL17
0.195851751	5.885097352	3.9782E-09	1.43001E-07	CDC26P1
0.194784289	5.916426061	3.2901E-09	1.20966E-07	H2BC12
0.171117372	6.722537585	1.7859E-11	1.00859E-09	
0.402870426	2.851260871	0.00435462	0.02350295	CYP1A1
0.303483014	3.78491595	0.00015376	0.001573862	NNMT
0.272378064	4.207544513	2.5816E-05	0.00034494	FAM225A
0.261956036	4.374700348	1.216E-05	0.000180625	CREM
0.18351119	6.238616859	4.4146E-10	1.94717E-08	C19orf12
0.157411994	7.270324458	3.5863E-13	2.44965E-11	TMEM219
0.153733068	7.433799653	1.0552E-13	7.74892E-12	TICAM1
0.227025667	5.033199454	4.8236E-07	1.10379E-05	RASGEF1B
0.138765397	8.231376709	1.8507E-16	1.79765E-14	PI4K2B
0.292670864	3.895983827	9.7801E-05	0.001081059	SLFN13
0.341034162	3.341818314	0.00083232	0.006313472	ANKRD1
0.379760927	2.998804346	0.00271041	0.01609036	CPXM2
0.287052494	3.965425433	7.3265E-05	0.00084112	
0.302675609	3.753467158	0.00017441	0.001742845	RHOB
0.173560669	6.538926247	6.1962E-11	3.19624E-09	ABHD16A
0.355488726	3.191682567	0.00141447	0.00963054	TCAF2C
0.432021459	2.623626978	0.0086999	0.040471975	DUXAP8
0.244991744	4.62030896	3.8317E-06	6.69776E-05	PLA2G4A
0.253009825	4.456499248	8.3309E-06	0.000130296	
0.153719859	7.333823849	2.2368E-13	1.57906E-11	MFSD12
0.251563779	4.480282407	7.4544E-06	0.000118436	PDPN
0.169886972	6.621138561	3.5644E-11	1.89948E-09	SMCHD1
0.119978415	9.375050142	6.9143E-21	9.06169E-19	
0.3639857	3.087040809	0.0020216	0.012709112	
0.15352454	7.306804965	2.7357E-13	1.91156E-11	SPHK1
0.125086979	8.962183857	3.1831E-19	3.77439E-17	CASP7
0.16374525	6.845232789	7.6352E-12	4.46869E-10	CDC26
0.367016425	3.052464558	0.00226971	0.013989536	OXER1
0.384298075	2.913881199	0.00356966	0.020056714	ADAMTS4
0.431793827	2.591696525	0.0095504	0.043461529	H2BP2
0.380860279	2.937596387	0.00330767	0.018902666	ADGRE1
0.111177768	10.05365402	8.8523E-24	1.51546E-21	
0.335728237	3.322779624	0.00089125	0.006644613	C19orf33
0.314038655	3.549622352	0.00038578	0.003376043	LINC01684
0.204256778	5.454602878	4.9082E-08	1.41816E-06	SLC12A7

0.29684604	3.752011271	0.00017542	0.001749171	EPOP
0.366657451	3.037088524	0.00238875	0.014565969	
0.170844558	6.517104309	7.1678E-11	3.64252E-09	MASTL
0.283119353	3.931581793	8.4389E-05	0.000949145	GZMA
0.291227474	3.82191207	0.00013242	0.001389177	SELL
0.424389417	2.622606168	0.00872601	0.040538344	SNORD100
0.106917757	10.40777171	2.2851E-25	4.50292E-23	
0.298005889	3.730559195	0.00019106	0.001883799	GPR132
0.272961169	4.071004347	4.6811E-05	0.000574688	
0.396902785	2.798022226	0.00514166	0.026835964	
0.135572735	8.185457119	2.7127E-16	2.62559E-14	USF1
0.170726863	6.498742209	8.0994E-11	4.05579E-09	SLFN5
0.375109272	2.955836349	0.00311822	0.017966197	FGD2
0.307082365	3.610150575	0.00030602	0.002784776	NSMCE2
0.161082906	6.873542572	6.2627E-12	3.73728E-10	CD86
0.364336601	3.037222415	0.00238769	0.014562742	SPATA1
0.169841059	6.514719244	7.2826E-11	3.68719E-09	POMP
0.330435968	3.346775495	0.00081757	0.006229486	
0.18162864	6.087516674	1.1468E-09	4.61923E-08	SCARB2
0.327908748	3.367586879	0.00075829	0.005864019	
0.234552862	4.702641858	2.5682E-06	4.73383E-05	ITGB7
0.270327419	4.076667385	4.5686E-05	0.000563684	ALPK1
0.296253288	3.716630457	0.0002019	0.001969295	TLR2
0.253196944	4.346406223	1.3839E-05	0.000202054	GPR39
0.1942068	5.666138821	1.4605E-08	4.71756E-07	TMEM35B
0.26038472	4.223558172	2.4048E-05	0.000324476	LINC01133
0.193717747	5.674252563	1.393E-08	4.52359E-07	VAMP8
0.348399502	3.154977945	0.0016051	0.010637515	FTH1P7
0.326977463	3.360375178	0.00077837	0.005987152	RN7SKP203
0.427870372	2.566833035	0.0102632	0.045907713	
0.141572468	7.738386658	1.0069E-14	8.13539E-13	DNPEP
0.222250009	4.925675837	8.4069E-07	1.78093E-05	HLA-DQB2
0.314969042	3.473981714	0.0005128	0.004266706	
0.403192704	2.703817247	0.0068548	0.03361858	
0.17330983	6.289566499	3.1835E-10	1.44611E-08	C3orf38
0.16365787	6.657877027	2.7781E-11	1.51584E-09	WDFY1
0.182391214	5.97169	2.3481E-09	8.84682E-08	SEMA4A
0.206797345	5.263713136	1.4117E-07	3.68278E-06	BVES
0.192650327	5.648615839	1.6174E-08	5.1817E-07	TMEM132A
0.319684266	3.403588334	0.00066507	0.005278733	TCAF2
0.428469045	2.538642293	0.01112835	0.04878629	
0.289573902	3.754134203	0.00017394	0.001738845	PNRC1
0.296601624	3.661971553	0.00025028	0.002359073	HSD11B1
0.328212257	3.300472437	0.00096522	0.007082345	IL7R
0.303907984	3.561237923	0.00036911	0.003251058	CHI3L1
0.218226987	4.954548332	7.2498E-07	1.56981E-05	CTSO
0.217474966	4.971058926	6.6588E-07	1.45913E-05	IRF8
0.202856457	5.326919219	9.9893E-08	2.70907E-06	SCYL3
0.309263165	3.493950704	0.00047593	0.004006198	GATA1
0.276995185	3.897013851	9.7386E-05	0.001076925	STX19
0.195795966	5.511877047	3.5503E-08	1.05587E-06	BAZ1A
0.276873999	3.895542455	9.7979E-05	0.001082593	SLC2A12

0.220109141	4.900131075	9.5773E-07	1.99768E-05	SDCBP2
0.369580695	2.914303653	0.00356483	0.0200337	SNORA7A
0.12581613	8.558414349	1.1443E-17	1.23888E-15	PSMA5
0.156464332	6.863515934	6.7186E-12	3.98332E-10	FCER1G
0.215730515	4.977414667	6.4439E-07	1.41771E-05	BLOC1S3
0.137609931	7.80230961	6.0784E-15	5.09157E-13	TMX1
0.154562476	6.941803818	3.8712E-12	2.36163E-10	DESI1
0.208499097	5.141796796	2.7212E-07	6.59823E-06	LINC01145
0.248040954	4.321441293	1.5501E-05	0.000221606	TNIP1
0.132819334	8.04675405	8.5019E-16	7.8674E-14	TMEM179B
0.304501154	3.507980464	0.00045152	0.003848054	FHOD3
0.278193082	3.835368867	0.00012538	0.001329529	
0.137491734	7.757186808	8.6834E-15	7.09991E-13	ATOX1
0.224291895	4.751720216	2.0169E-06	3.83918E-05	SCML1
0.251397725	4.231305168	2.3234E-05	0.000314427	KCNT2
0.162370086	6.55068225	5.7275E-11	2.96003E-09	TMSB10
0.407978039	2.596659893	0.00941351	0.043017251	KDSR-DT
0.26059087	4.063665103	4.8308E-05	0.000589665	CMAHP
0.163661166	6.464487597	1.0164E-10	4.96273E-09	GTF2B
0.309806839	3.414650124	0.00063864	0.005111919	SENCR
0.174135471	6.074709008	1.2421E-09	4.98142E-08	TRIM56
0.245776469	4.299550827	1.7114E-05	0.000241391	CD7
0.283410063	3.727196181	0.00019362	0.001904886	ODF2L
0.194976786	5.414209508	6.156E-08	1.74373E-06	
0.275609268	3.826736683	0.00012985	0.001366953	
0.363684299	2.899180803	0.00374139	0.020829357	SBK1
0.300715616	3.505574514	0.00045562	0.003876971	MT1F
0.342871521	3.07417257	0.00211087	0.013182608	CLECL1P
0.230052779	4.578086426	4.6925E-06	7.94388E-05	SIDT2
0.375742163	2.801601226	0.00508497	0.02661275	IL10
0.209860047	5.016014319	5.2754E-07	1.19419E-05	CCDC71L
0.203829878	5.16399258	2.4174E-07	5.9385E-06	BTN2A1
0.343640407	3.062587395	0.00219432	0.013629189	OLFML1
0.169670309	6.199979963	5.647E-10	2.45911E-08	ADPRM
0.196138073	5.362999083	8.1851E-08	2.24874E-06	SLC3A2
0.226453674	4.641337639	3.4616E-06	6.16095E-05	TOR1B
0.228498295	4.592747473	4.3745E-06	7.48416E-05	MMEL1
0.190808981	5.499522071	3.8082E-08	1.13013E-06	LSM12P1
0.19679097	5.329677517	9.8387E-08	2.67089E-06	
0.274015478	3.819277552	0.00013384	0.001400877	ABTB2
0.176384489	5.930029034	3.0288E-09	1.11809E-07	FUT4
0.241124533	4.336480834	1.4478E-05	0.000209494	
0.398229088	2.619861067	0.00879656	0.040790006	
0.225663985	4.620827321	3.8221E-06	6.69138E-05	
0.227163734	4.58699202	4.4968E-06	7.66944E-05	
0.133073566	7.82258986	5.1747E-15	4.37474E-13	WDR25
0.328388597	3.157569498	0.0015909	0.010566544	C11orf96
0.317143615	3.26699026	0.00108697	0.007777772	SH2D2A
0.201882117	5.131879553	2.8686E-07	6.92898E-06	GTPBP2
0.15296174	6.770532251	1.2831E-11	7.41461E-10	DECR1
0.378714467	2.734039659	0.00625625	0.031282396	
0.198605862	5.210023467	1.8882E-07	4.77111E-06	PARP3

0.238190128	4.342850305	1.4065E-05	0.000204482	
0.295482508	3.499922782	0.00046539	0.003942956	FOXN3-AS1
0.238996269	4.325643507	1.5209E-05	0.000218193	C1QA
0.259469808	3.98156239	6.8464E-05	0.000794033	NPAT
0.174904933	5.902085968	3.5893E-09	1.30392E-07	ZC3HAV1
0.261695656	3.942336078	8.0692E-05	0.000912564	OTUD4P1
0.173059093	5.954275478	2.6123E-09	9.7616E-08	CD47
0.315969492	3.260154876	0.00111351	0.007903917	BHLHE22
0.249835423	4.121631009	3.762E-05	0.0004757	DLL1
0.140247768	7.340600085	2.1264E-13	1.50891E-11	ZBTB42
0.178559936	5.763524149	8.2375E-09	2.77533E-07	CASP8
0.301786691	3.40706417	0.00065666	0.00522863	GSDMB
0.132589288	7.751446783	9.0851E-15	7.38431E-13	ENY2
0.362847631	2.828140621	0.00468192	0.024862848	TMEM158
0.179949272	5.701110132	1.1903E-08	3.90928E-07	TANK
0.306744887	3.341519808	0.00083321	0.006316942	
0.133238599	7.690968315	1.4603E-14	1.17296E-12	ZNRF2
0.177013772	5.781772073	7.3918E-09	2.51201E-07	VRK2
0.242832363	4.210564467	2.5473E-05	0.000341559	ADGRE5
0.201520095	5.072334994	3.9296E-07	9.16057E-06	LCP2
0.241847072	4.216396587	2.4824E-05	0.000334179	STAT4
0.217364954	4.689099429	2.7441E-06	5.02095E-05	NKG7
0.146625442	6.939467141	3.9358E-12	2.39569E-10	UBE2Z
0.240175189	4.235683291	2.2786E-05	0.000309279	A4GALT
0.333569745	3.042362387	0.00234729	0.01436431	XDH
0.186967108	5.427767643	5.7063E-08	1.63154E-06	HLA-DPB1
0.253945288	3.995657736	6.4515E-05	0.00075486	PSEN2
0.252650711	4.01100507	6.0461E-05	0.000714136	RUNX3
0.373603353	2.701481406	0.00690313	0.033795128	H2BC6
0.308330629	3.266868803	0.00108744	0.007779077	TMEM217B
0.34418658	2.92481276	0.00344664	0.019517633	LRCOL1
0.190752917	5.274222589	1.3332E-07	3.49117E-06	CD82
0.15616471	6.440347798	1.192E-10	5.74825E-09	ADAP1
0.247967088	4.055137984	5.0105E-05	0.000607534	
0.210969572	4.765296751	1.8858E-06	3.61968E-05	HLA-DQB1
0.205736314	4.883886216	1.0402E-06	2.14539E-05	OAF
0.191410093	5.248350098	1.5347E-07	3.95822E-06	DENND5A
0.189955638	5.28820107	1.2353E-07	3.28812E-06	TRAPPC2B
0.245316421	4.09168656	4.2825E-05	0.00053222	SOCS3
0.196902242	5.088356471	3.6118E-07	8.53798E-06	SEMA4D
0.348517989	2.874389073	0.0040481	0.022194053	FCER2
0.345109063	2.902182251	0.00370573	0.02068969	CEACAM3
0.274934421	3.642809165	0.00026968	0.00250739	TESK2
0.383741956	2.60892193	0.0090828	0.041819948	SIGLEC5
0.391344209	2.556329682	0.01057828	0.046999154	LINC00189
0.316541911	3.159266949	0.00158167	0.010515388	SPATA6L
0.34835439	4.058532975	4.9382E-05	0.003743725	SLC7A2
0.484890761	4.714273776	2.4257E-06	0.000398261	CX3CL1
0.976287429	7.043640166	1.8728E-12	1.95934E-08	SELE
0.235144163	4.769911856	1.8431E-06	0.000335342	HIVEP2
0.246605999	5.098201507	3.429E-07	9.69561E-05	PLAUR
0.309601617	4.297189337	1.7298E-05	0.001630351	MAMLD1

0.331900935	6.142505788	8.123E-10	1.30742E-06	BIRC3
0.25832283	4.336186354	1.4498E-05	0.001416535	SLAMF7
0.402855077	3.500059074	0.00046516	0.017318335	TNFRSF9
0.747997722	3.466518129	0.00052725	0.018858289	TNIP3
0.522892821	5.12985785	2.8996E-07	8.66735E-05	TRAF1
0.644063782	3.903679951	9.4741E-05	0.006062268	PTGS2
0.266466738	5.456035461	4.8688E-08	2.4256E-05	NFKB2
0.276372157	3.860462313	0.00011317	0.006746511	KCNN2
0.77247361	3.793069048	0.0001488	0.00796272	CXCL2
0.287878593	3.745399321	0.00018011	0.009059039	PKP1
0.33673417	3.203821658	0.00135616	0.036039329	SMOX
0.379828071	3.318181038	0.00090606	0.028003463	RGS1
0.298433818	5.301859932	1.1463E-07	4.70293E-05	ICAM1
1.023932774	3.458705724	0.00054278	0.019281966	IL11
0.665719251	3.609329189	0.00030699	0.012872656	OSM
0.306369519	3.308082907	0.00093937	0.028820201	HMOX1
0.373105951	3.293214375	0.00099049	0.029607138	PDGFB
0.742292106	4.194718455	2.7321E-05	0.002352536	BDKRB1
0.329763517	5.302007075	1.1454E-07	4.70293E-05	NFKBIA
0.237982704	4.767138412	1.8686E-06	0.000337058	JAG1
0.271225408	5.213379064	1.8543E-07	6.57622E-05	LIPG
0.382144348	3.635120074	0.00027785	0.012011897	BMX
1.110300717	4.467137356	7.9273E-06	0.000896602	ACOD1
0.280465414	5.848076669	4.9729E-09	4.72967E-06	SLC7A5
0.333911445	4.179811677	2.9175E-05	0.002461528	RIPK2
0.253458509	4.969807124	6.702E-07	0.000157564	SLC39A14
0.340322362	3.669604225	0.00024293	0.011160122	NEFM
0.198846874	6.450837368	1.1123E-10	3.32494E-07	RELB
0.540553453	3.375347543	0.00073723	0.024359957	EBI3
0.269015362	4.38381795	1.1662E-05	0.001199063	ICAM4
1.371592474	4.106117399	4.0237E-05	0.003177014	HAS1
0.333532095	3.819886122	0.00013351	0.007390562	SERPINE1
1.094739371	4.115027941	3.8713E-05	0.003111286	CSF3
0.289792362	4.541282468	5.5913E-06	0.000713369	RASD1
0.346361755	4.590146437	4.4294E-06	0.000612924	CCL2
0.671230894	3.385996822	0.0007092	0.023705022	CCL1
0.435286369	4.897128306	9.7247E-07	0.000209774	SLC16A6
0.26558161	5.659313869	1.5198E-08	1.17778E-05	NFKB1
0.842462927	4.85203389	1.222E-06	0.000255695	IL23A
0.371383228	4.383049408	1.1703E-05	0.001199063	FZD10
1.091380148	4.675938416	2.9261E-06	0.000467376	IL17A
0.240040249	6.385318943	1.7104E-10	4.47357E-07	CD83
0.341267614	3.518372235	0.0004342	0.016429042	HBEGF
0.311775018	4.193637612	2.7452E-05	0.002354091	COL7A1
1.075602335	4.508857585	6.5178E-06	0.000779301	IL1A
1.111241158	3.839788133	0.00012314	0.007117659	CCL20
0.445444005	3.414636728	0.00063867	0.021871617	TACR1
0.265343169	3.807822972	0.0001402	0.007639198	IL18R1
0.279714995	4.494301021	6.9799E-06	0.000820489	KYNU
0.194128393	7.831425888	4.8237E-15	1.00931E-10	PLEK
0.25032917	4.758809535	1.9474E-06	0.000348265	ETV3
0.36170744	4.328193841	1.5034E-05	0.001456321	GBP1

0.276401765	6.925113344	4.3563E-12	3.03835E-08	TNFSF4
0.500113506	4.718484374	2.3761E-06	0.000397737	TNFAIP3
0.258781063	4.34406586	1.3987E-05	0.001380895	OTUD4P1
0.528847132	3.446051694	0.00056884	0.020004101	NR4A3
0.359039442	3.463680307	0.00053284	0.018993408	MSX2
0.288898397	3.498475894	0.00046793	0.017328975	CD274
0.819947636	3.375074475	0.00073796	0.024359957	TNFSF18
0.290044768	4.205197395	2.6085E-05	0.002264779	EGR1
0.39805512	3.411771857	0.00064542	0.022030653	RDH10
0.268298823	3.796527258	0.00014674	0.007872641	PDZRN3
0.320286026	3.177255714	0.00148676	0.03803974	CD80
0.682688361	3.668537524	0.00024394	0.011169016	INHBA
0.301064313	3.393098136	0.00069107	0.023209823	MMP19
0.343695379	3.758903277	0.00017066	0.00875217	NR4A1
0.683161077	3.789601846	0.00015089	0.008045003	TNFAIP6
0.325430544	3.335702364	0.00085084	0.026731259	SDC4
0.334343616	3.592108007	0.00032801	0.013590815	SNAI1
0.214863586	5.186883	2.1384E-07	7.16734E-05	CDKN1A
0.865355234	5.328924661	9.8796E-08	4.21879E-05	EREG
0.294623531	5.560949567	2.6831E-08	1.70125E-05	IRF1
0.411230915	4.436426126	9.1465E-06	0.001006085	HS3ST3B1
0.48188319	4.614909445	3.9327E-06	0.000575435	MIR9-1HG
1.0593106	5.206030972	1.9292E-07	6.72785E-05	IL1B
0.246941851	4.727954438	2.2679E-06	0.000385806	FOSB
0.285584852	5.117781293	3.0915E-07	9.1108E-05	ZFP36
0.901350263	3.978628975	6.9314E-05	0.004811076	LIF
0.296339149	5.024232695	5.0545E-07	0.000130568	UNC13A
0.277539435	3.986491453	6.7058E-05	0.004724283	NINJ1
0.333709914	5.000246297	5.7257E-07	0.000140947	GCH1
0.198564988	6.252012131	4.052E-10	7.7076E-07	ZSWIM4
0.268501624	5.527326406	3.2515E-08	1.79037E-05	KDM6B
0.272042184	5.049974816	4.4187E-07	0.000115571	SLC41A1
0.279274867	3.830371706	0.00012795	0.007255345	TMCC2
0.279220658	3.725319272	0.00019507	0.009558797	AMPD3
0.250384337	6.029938469	1.6402E-09	2.145E-06	IRAK2
0.284528524	4.713388148	2.4363E-06	0.000398261	FST
0.447314223	5.293766459	1.1982E-07	4.7305E-05	FAM186B
0.832037822	4.459089107	8.2309E-06	0.000920204	IL6
0.372920299	4.900765173	9.5464E-07	0.000208072	IL10
0.217719444	4.882580436	1.0471E-06	0.000223169	IL1RN
0.619163232	4.016864109	5.8978E-05	0.004299824	IER3
0.207450993	4.840964614	1.2921E-06	0.000267683	LRRC32
0.322085567	3.118140451	0.00181996	0.043077889	SLCO5A1
0.283325819	3.836191694	0.00012496	0.007182961	SPTBN5
0.224171147	4.751566428	2.0185E-06	0.000357919	DUSP5
0.379632169	4.393812255	1.1138E-05	0.00115946	GPR84
0.401953102	4.307775997	1.649E-05	0.001571898	CYP1A1
0.257996389	4.803994373	1.5553E-06	0.000304063	PMAIP1
0.352258006	4.626266553	3.7232E-06	0.000556453	SIK1
0.27140431	4.772281123	1.8215E-06	0.000335342	RGS16
0.302640814	5.997715018	2.0011E-09	2.45108E-06	RHOB
0.19732993	6.255336911	3.9666E-10	7.7076E-07	CSRNP1

0.350454345	4.600776674	4.2092E-06	0.00060324	NFKBIZ
0.481908049	4.137826977	3.5061E-05	0.002888258	UCN2
0.268069982	3.82099413	0.00013291	0.007376949	TIFA
0.363501199	3.626383615	0.00028742	0.012298446	TSLP
0.298686899	3.843929109	0.00012108	0.007081739	TNFAIP8
0.248023924	5.488180952	4.0609E-08	2.12428E-05	TNIP1
0.230146239	5.632391645	1.7773E-08	1.28233E-05	NFKBIE
0.2895462	3.622015545	0.00029232	0.012475776	PNRC1
0.328969153	3.11333227	0.00184988	0.043462986	CREB5
0.226763339	4.749079574	2.0434E-06	0.000359303	ZC3H12C
0.269689917	4.904278744	9.3771E-07	0.000206534	SLC7A11
0.300681952	4.593769686	4.3531E-06	0.000611304	NOCT
0.344703268	3.505507786	0.00045574	0.017028294	ABTB3
0.273046063	3.971830485	7.1322E-05	0.00490905	PSTPIP2
0.626236605	3.520363014	0.00043096	0.016335751	NR4A2
0.252318157	4.080499019	4.4939E-05	0.00345313	HS3ST3A1
0.328046629	3.138029621	0.00170088	0.041296675	SRSF12
0.35307349	5.176078941	2.266E-07	7.29435E-05	DUSP2
0.249810156	5.663046879	1.4871E-08	1.17778E-05	NCF1
0.384269781	5.149912458	2.6061E-07	8.13875E-05	ADAMTS4
0.368458176	3.665476255	0.00024688	0.011254227	CLDN14
0.478814642	3.87705636	0.00010573	0.006393786	FNDC5
0.203610094	5.909043093	3.441E-09	3.59998E-06	SLC2A6
0.499508225	3.289029092	0.00100534	0.02989818	CYP3A7
0.417477875	3.787232605	0.00015233	0.008089966	DRAXIN
0.337184048	5.23213913	1.6756E-07	6.15091E-05	NLRP3
0.244129245	4.673156316	2.9661E-06	0.000470165	ATF3
0.209932442	5.980415275	2.2257E-09	2.45108E-06	REL
0.555495582	3.938801119	8.189E-05	0.005405242	NEURL3
0.237592081	5.433173191	5.5361E-08	2.69387E-05	MSX1
0.343972205	4.176447338	2.961E-05	0.002488168	NUAK2
0.323722661	3.962946605	7.403E-05	0.004980742	ADAMTS9
0.394999492	5.242918632	1.5806E-07	6.01303E-05	PTX3
0.583997461	4.224286516	2.397E-05	0.002125195	DCLK3
0.927756436	4.208590008	2.5697E-05	0.002249717	CXCL3
0.861017844	3.839022562	0.00012353	0.007120217	CXCL1
0.39394892	4.825306248	1.3979E-06	0.000278565	ZC3H12A
0.231442795	4.708909297	2.4905E-06	0.000403956	ANKRD33B
0.242686296	4.141517444	3.4502E-05	0.002853402	GRPEL2
0.424676281	4.181299923	2.8985E-05	0.00245537	CSF2
0.267993388	3.762306437	0.00016835	0.008678752	PIGA
0.27378832	3.840591261	0.00012274	0.007114063	ABTB2
0.40998064	3.540286489	0.00039969	0.015544933	CLEC4E
0.580810653	3.832961998	0.00012661	0.007218467	C15orf48
0.28938748	4.467843684	7.9012E-06	0.000896602	NKX3-1
0.228365976	4.802185444	1.5694E-06	0.000304063	SAMD14
0.184423851	5.551725427	2.8286E-08	1.73752E-05	NFKBID
0.210235502	4.924985226	8.4367E-07	0.000189816	SLC43A2
0.382368948	5.391292771	6.9953E-08	3.11423E-05	TMEM88
0.328173629	3.345699456	0.00082075	0.026139173	IL7R
0.548785883	4.226356834	2.3751E-05	0.002114706	CXCL10
1.034379192	3.701904435	0.00021399	0.010245924	CXCL8

0.300576229	4.087004722	4.3698E-05	0.003411691	PFKFB3
0.235823637	5.10963929	3.2277E-07	9.38018E-05	JUNB
0.719276681	4.49237729	7.0433E-06	0.000823313	RND1
0.284641019	4.448011789	8.6669E-06	0.000959501	TMEM217
0.332691859	3.377192427	0.0007323	0.02431459	C1QTNF1
0.21017878	6.483050885	8.9886E-11	3.13463E-07	FOSL1
0.284248806	3.880427567	0.00010427	0.006384907	FOXC2
0.337664785	5.809322719	6.2726E-09	5.70644E-06	CA8
0.393678885	4.58905758	4.4525E-06	0.000612924	EGR3
0.455775145	4.519532241	6.1976E-06	0.00076282	CITED4
0.584850394	3.638381589	0.00027436	0.011934802	PNPLA1
0.275680416	4.520334231	6.1742E-06	0.00076282	TNFSF15
0.263253568	5.158991193	2.4828E-07	7.87135E-05	HCAR2
0.296858995	5.237975328	1.6235E-07	6.06601E-05	GPR132
0.188673931	6.697775558	2.1162E-11	9.23756E-08	CSF1
0.317889898	4.986232273	6.1568E-07	0.000149797	PDE4B
0.174496533	5.987633518	2.1292E-09	2.45108E-06	MAFF
0.338129901	5.532311938	3.1604E-08	1.79037E-05	TNFAIP2
0.91327171	3.720763988	0.00019862	0.009642565	GP1BA
0.239102877	4.356051182	1.3243E-05	0.001323683	IL3RA
0.387117087	6.69160189	2.2074E-11	9.23756E-08	FCAR
0.195783398	6.092554788	1.1112E-09	1.66081E-06	TNFRSF4
0.309403898	3.662007311	0.00025025	0.011340011	TNFRSF18
0.32834753	3.728347898	0.00019274	0.00947446	C11orf96
0.263399433	4.537836405	5.6834E-06	0.000716386	SPRY4
0.385034827	4.297643157	1.7262E-05	0.001630351	DNER
0.27700331	4.715828885	2.4073E-06	0.000398261	SP6
0.627463226	4.07990687	4.5054E-05	0.00345313	SERPINB2
0.407063726	4.00593362	6.1773E-05	0.004381485	C2CD4A
0.468752295	3.362148152	0.00077339	0.025088887	
0.402281435	3.685328709	0.00022841	0.010715699	ADAMTSL4-AS1
0.605363295	3.275482726	0.00105482	0.031016793	NEU4
0.397621881	5.777075945	7.601E-09	6.6268E-06	C2CD4B
0.382712704	3.5873649	0.00033404	0.013785767	TRGC1
0.308208944	3.963299634	7.3921E-05	0.004980742	TRGV5
0.385801031	5.218640477	1.8024E-07	6.50236E-05	ACKR1
0.346506906	3.406275144	0.00065856	0.022405954	PDCL3P5
0.683563403	3.499026098	0.00046696	0.017327943	
0.386166462	3.088125149	0.00201424	0.04596061	GBP1P1
0.536121961	3.135945386	0.00171301	0.041389194	LTB
0.451076773	3.376835381	0.00073325	0.02431459	IL6ST-DT
0.565883329	3.736721985	0.00018643	0.009265945	HCG20
0.379186109	3.735892612	0.00018705	0.00926908	NAMPTP1
0.317245584	3.750202213	0.00017669	0.00894737	SBK3
0.62192038	3.540366341	0.00039957	0.015544933	HIVEP2-DT
0.565002467	6.295896632	3.0563E-10	7.10551E-07	TNF
0.319325622	3.260503801	0.00111214	0.031859675	ADAMTSL4-AS2
0.428377362	3.618215498	0.00029664	0.012590109	
0.424899225	3.3189783	0.00090347	0.027964941	LINC01679
0.601802766	5.334784399	9.5658E-08	4.1699E-05	PRKAG2-AS2
0.362198182	3.142285872	0.00167634	0.041074216	TNFRSF6B
0.478814557	3.835402657	0.00012536	0.007186319	

0.335677557	5.295106113	1.1895E-07	4.7305E-05	MIR3945HG
0.30242809	3.803931785	0.00014242	0.007720057	RNU1-125P
0.250552603	5.546984187	2.9064E-08	1.73752E-05	
0.299074348	3.738477776	0.00018514	0.009223392	MAILR
0.59861871	4.509151697	6.5087E-06	0.000779301	MIR3142HG
0.301043039	4.230442396	2.3323E-05	0.002085534	EID3
0.328530494	5.016814201	5.2535E-07	0.000133955	HCAR3
0.707580161	3.654817085	0.00025737	0.01148137	
0.408959635	3.155091846	0.00160448	0.039777314	SH3RF3-AS1
0.285672157	3.648654793	0.00026362	0.011636969	
0.43241934	5.18518447	2.158E-07	7.16734E-05	LINC02605
0.642119025	3.456406266	0.00054743	0.019381415	
0.199796133	6.235144595	4.5136E-10	7.87023E-07	
0.518527409	5.511841953	3.551E-08	1.90514E-05	
0.390646203	3.266110335	0.00109036	0.031497409	
0.313838232	3.967418697	7.2655E-05	0.004968102	NUP153-AS1
0.249878477	4.640582509	3.4743E-06	0.000526782	DOC2B
0.296270823	4.556073875	5.2119E-06	0.000685868	EPOP
0.666369876	5.460249024	4.7547E-08	2.4256E-05	CCL4
0.601027334	3.768406736	0.00016429	0.008530182	CCL15
0.345826322	4.609288945	4.0405E-06	0.000587105	
0.735748417	5.637559326	1.7248E-08	1.28233E-05	CCL4L2
0.709672767	5.575855032	2.4632E-08	1.61061E-05	CCL3L3
0.959522081	3.17700719	0.00148803	0.03803974	LINC03025
0.360999223	3.656270987	0.00025591	0.01146612	MIR6891
0.593492566	5.60474667	2.0856E-08	1.45463E-05	CCL3
0.329623779	3.222575634	0.00127044	0.034567759	
0.587386347	3.930306606	8.4838E-05	0.005582208	MIR147B
0.430285169	3.05439467	0.00225515	0.04941026	
0.307081005	4.375913647	1.2092E-05	0.001228268	TMEM217B
0.500114526	5.130099378	2.8959E-07	8.66735E-05	
0.468886274	3.511209649	0.00044607	0.016787086	
0.343463804	4.368055671	1.2536E-05	0.001261049	
0.50308736	4.942235799	7.7232E-07	0.000177582	
0.617903014	4.037704672	5.3977E-05	0.004062624	
0.332094957	5.083578721	3.7039E-07	0.000101019	
0.381126008	3.562822625	0.00036689	0.01467835	TARP
0.36780272	4.27302695	1.9284E-05	0.0017775	
0.466549631	3.473046111	0.00051459	0.018560587	
0.383955317	3.051994731	0.00227326	0.049547616	GBP1P1
0.305914436	5.179366226	2.2264E-07	7.27897E-05	SOD2

gene_biotype	ortho_type	ortho_group	organism
protein_codin	H1-M1	1842	mmu
protein_codin	H1-M*	508	mmu
protein_codin	H1-M1	9449	mmu
protein_codin	H1-M1	13885	mmu
protein_codin	H*-M*	192	mmu
protein_codin	H1-M1	9014	mmu
protein_codin	H1-M1	12213	mmu
protein_codin	H1-M*	499	mmu
protein_codin	H1-M1	16075	mmu
protein_codin	H1-M1	12511	mmu
protein_codin	H1-M1	3695	mmu
protein_codin	H1-M1	17573	mmu
protein_codin	H1-M1	6557	mmu
protein_codin	H1-M1	5886	mmu
protein_codin	H1-M1	14103	mmu
protein_codin	H1-M1	14244	mmu
protein_codin	H1-M1	7820	mmu
protein_codin	H1-M1	14791	mmu
protein_codin	H1-M1	17919	mmu
protein_codin	H1-M1	5984	mmu
protein_codin	H*-M1	452	mmu
protein_codin	H0-M1	87593	mmu
protein_codin	H1-M1	7581	mmu
protein_codin	H1-M1	16693	mmu
protein_codin	H1-M1	16692	mmu
protein_codin	H1-M1	15509	mmu
protein_codin	H*-M1	328	mmu
protein_codin	H1-M1	2923	mmu
protein_codin	H1-M1	15083	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	10296	mmu
protein_codin	H1-M1	2416	mmu
protein_codin	H1-M1	17083	mmu
protein_codin	H1-M1	7517	mmu
protein_codin	H1-M1	10534	mmu
protein_codin	H1-M1	16074	mmu
protein_codin	H1-M1	2992	mmu
protein_codin	H1-M1	3514	mmu
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protein_codin	H1-M1	9840	mmu
protein_codin	H1-M1	17355	mmu
protein_codin	H1-M1	17345	mmu
protein_codin	H1-M1	8360	mmu
protein_codin	H1-M1	13907	mmu
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protein_codin	H1-M1	13447	mmu
protein_codin	H1-M1	7707	mmu
protein_codin	H1-M1	7357	mmu
protein_codin	H1-M1	2948	mmu
protein_codin	H1-M1	7709	mmu

protein_codin	H1-M1	14142	mmu
protein_codin	H1-M1	5096	mmu
protein_codin	H1-M1	5464	mmu
protein_codin	H1-M1	12286	mmu
protein_codin	H1-M1	15515	mmu
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protein_codin	H1-M1	2720	mmu
protein_codin	H1-M1	3042	mmu
protein_codin	H1-M1	10067	mmu
protein_codin	H1-M1	5783	mmu
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protein_codin	H1-M1	6007	mmu
protein_codin	H1-M1	7809	mmu
protein_codin	H1-M1	15349	mmu
protein_codin	H1-M1	10097	mmu
protein_codin	H1-M1	10438	mmu
protein_codin	H1-M1	9150	mmu
protein_codin	H1-M1	12037	mmu
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protein_codin	H1-M1	7426	mmu
protein_codin	H1-M1	2142	mmu
protein_codin	H0-M1	73841	mmu
protein_codin	H0-M1	73836	mmu
protein_codin	H*-M*	243	mmu
protein_codin	H1-M1	12976	mmu
protein_codin	H1-M1	10608	mmu
protein_codin	H1-M1	3131	mmu
protein_codin	H1-M1	4697	mmu
protein_codin	H1-M1	9308	mmu
protein_codin	H1-M1	8249	mmu
protein_codin	H*-M1	865	mmu
protein_codin	H1-M1	1194	mmu
protein_codin	H1-M1	13991	mmu
protein_codin	H1-M1	16769	mmu
protein_codin	H1-M1	2970	mmu
protein_codin	H1-M1	13112	mmu
protein_codin	H1-M1	13335	mmu
protein_codin	H1-M1	14698	mmu
protein_codin	H1-M1	4255	mmu
protein_codin	H1-M1	6330	mmu
protein_codin	H1-M1	7753	mmu
protein_codin	H1-M1	11591	mmu
protein_codin	H*-M1	753	mmu
protein_codin	H1-M1	16337	mmu
protein_codin	H1-M1	14574	mmu
protein_codin	H1-M1	12324	mmu
protein_codin	H1-M1	1275	mmu
protein_codin	H1-M1	5263	mmu
lncRNA	H0-M1	97792	mmu
protein_codin	H1-M1	13039	mmu

protein_codin	H1-M1	16937	mmu
protein_codin	H1-M1	16304	mmu
protein_codin	H1-M1	13820	mmu
protein_codin	H1-M1	16956	mmu
protein_codin	H1-M1	7076	mmu
protein_codin	H1-M1	1808	mmu
protein_codin	H1-M1	8128	mmu
protein_codin	H1-M1	9893	mmu
protein_codin	H1-M1	4542	mmu
protein_codin	H1-M1	6754	mmu
protein_codin	H1-M1	10381	mmu
protein_codin	H1-M1	5966	mmu
protein_codin	H0-M1	85566	mmu
protein_codin	H1-M1	11003	mmu
protein_codin	H1-M1	10995	mmu
protein_codin	H1-M1	1995	mmu
protein_codin	H1-M1	3050	mmu
protein_codin	H0-M1	90629	mmu
protein_codin	H1-M1	17935	mmu
protein_codin	H1-M1	14245	mmu
protein_codin	H1-M1	16187	mmu
protein_codin	H1-M1	6939	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	8426	mmu
protein_codin	H1-M1	6587	mmu
protein_codin	H1-M1	5024	mmu
protein_codin	H1-M1	17458	mmu
protein_codin	H1-M1	11259	mmu
protein_codin	H1-M1	3205	mmu
protein_codin	H1-M1	6541	mmu
protein_codin	H0-M1	67955	mmu
protein_codin	H1-M1	18168	mmu
protein_codin	H1-M1	8524	mmu
transcribed_ur	H0-M1	97002	mmu
protein_codin	H0-M1	93633	mmu
protein_codin	H1-M1	8504	mmu
protein_codin	H1-M1	4238	mmu
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protein_codin	H1-M1	9062	mmu
protein_codin	H1-M1	8847	mmu
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lncRNA	H0-M1	69786	mmu
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protein_codin	H0-M1	77234	mmu
protein_codin	H1-M1	2018	mmu
protein_codin	H1-M1	10427	mmu
protein_codin	H1-M1	10443	mmu
protein_codin	H1-M1	17746	mmu

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protein_codin	H1-M1	1489	mmu
protein_codin	H1-M1	11735	mmu
protein_codin	H1-M1	14833	mmu
protein_codin	H1-M1	16955	mmu
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protein_codin	H1-M1	9661	mmu
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protein_codin	H*-M1	983	mmu
protein_codin	H*-M*	192	mmu
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protein_codin	H*-M*	451	mmu
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protein_codin	H1-M1	12299	mmu
protein_codin	H1-M1	8726	mmu
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protein_codin	H1-M*	59	mmu
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protein_codin	H1-M1	13086	mmu
protein_codin	H1-M1	2081	mmu
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protein_codin	H1-M*	432	mmu
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protein_codin	H1-M1	13845	mmu
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protein_codin	H1-M1	2684	mmu
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protein_codin	H1-M1	5757	mmu
protein_codin	H*-M*	179	mmu
protein_codin	H*-M*	273	mmu
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protein_codin	H1-M1	8874	mmu
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protein_codin	H1-M1	13799	mmu
protein_codin	H1-M*	991	mmu
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protein_codin	H1-M1	9848	mmu
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protein_codin	H*-M*	130	mmu
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protein_codin	H1-M1	16068	mmu
protein_codin	H1-M1	6617	mmu
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protein_codin	H1-M1	12184	mmu
protein_codin	H1-M1	16241	mmu
protein_codin	H*-M1	953	mmu
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protein_codin	H1-M1	17829	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	449	mmu
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protein_codin	H*-M1	741	mmu
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protein_codin	H1-M1	18179	mmu
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protein_codin	H1-M1	4822	mmu
protein_codin	H1-M*	598	mmu
protein_codin	H1-M1	8382	mmu
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protein_codin	H1-M1	7564	mmu
protein_codin	H1-M1	4213	mmu
protein_codin	H1-M1	7803	mmu
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protein_codin	H1-M1	2284	mmu

protein_codin	H1-M1	3199	mmu
protein_codin	H0-M1	81949	mmu
protein_codin	H1-M1	6792	mmu
protein_codin	H1-M*	949	mmu
protein_codin	H1-M*	948	mmu
protein_codin	H0-M1	92968	mmu
protein_codin	H1-M1	11209	mmu
protein_codin	H1-M1	9393	mmu
protein_codin	H1-M1	8533	mmu
protein_codin	H*-M*	256	mmu
protein_codin	H1-M1	12254	mmu
protein_codin	H1-M1	12257	mmu
protein_codin	H1-M1	2178	mmu
protein_codin	H1-M1	3126	mmu
protein_codin	H1-M1	8916	mmu
protein_codin	H1-M1	3419	mmu
protein_codin	H1-M1	2749	mmu
protein_codin	H1-M1	16056	mmu
protein_codin	H1-M1	5291	mmu
protein_codin	H1-M1	12231	mmu
protein_codin	H1-M1	6271	mmu
protein_codin	H1-M1	17748	mmu
protein_codin	H1-M1	17822	mmu
protein_codin	H1-M1	12739	mmu
protein_codin	H1-M1	17745	mmu
protein_codin	H1-M1	14118	mmu
protein_codin	H1-M1	17237	mmu
protein_codin	H1-M1	12293	mmu
protein_codin	H1-M1	14913	mmu
protein_codin	H1-M1	16689	mmu
protein_codin	H1-M1	18045	mmu
protein_codin	H1-M1	5027	mmu
protein_codin	H1-M1	18186	mmu
protein_codin	H1-M1	17903	mmu
protein_codin	H1-M1	17904	mmu
protein_codin	H1-M1	15243	mmu
protein_codin	H1-M1	18114	mmu
protein_codin	H1-M1	18046	mmu
protein_codin	H1-M1	17923	mmu
protein_codin	H1-M1	17925	mmu
protein_codin	H1-M1	17817	mmu
protein_codin	H1-M1	17585	mmu
protein_codin	H1-M1	12199	mmu
protein_codin	H1-M1	17960	mmu
protein_codin	H1-M1	6844	mmu
protein_codin	H1-M1	17235	mmu
protein_codin	H1-M1	6158	mmu
protein_codin	H1-M1	17737	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H1-M1	10116	mmu
protein_codin	H1-M1	4257	mmu
protein_codin	H1-M1	9210	mmu

protein_codin	H1-M1	12133	mmu
protein_codin	H1-M1	3373	mmu
protein_codin	H1-M1	11663	mmu
protein_codin	H1-M1	11664	mmu
protein_codin	H0-M1	89806	mmu
protein_codin	H0-M1	89822	mmu
protein_codin	H1-M1	9024	mmu
lncRNA	H0-M1	90465	mmu
protein_codin	H1-M1	2799	mmu
protein_codin	H1-M1	10056	mmu
protein_codin	H1-M1	8129	mmu
protein_codin	H1-M1	15614	mmu
protein_codin	H1-M1	9679	mmu
protein_codin	H1-M1	11477	mmu
protein_codin	H1-M1	11440	mmu
protein_codin	H1-M1	5600	mmu
protein_codin	H0-M1	97200	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	13024	mmu
protein_codin	H1-M1	15545	mmu
protein_codin	H1-M1	4510	mmu
protein_codin	H1-M1	14268	mmu
protein_codin	H1-M1	7741	mmu
protein_codin	H1-M1	11185	mmu
protein_codin	H1-M1	11049	mmu
protein_codin	H1-M1	7414	mmu
protein_codin	H1-M1	2696	mmu
protein_codin	H1-M1	10415	mmu
protein_codin	H1-M1	13614	mmu
protein_codin	H1-M1	16517	mmu
protein_codin	H1-M1	7180	mmu
protein_codin	H1-M1	5777	mmu
protein_codin	H1-M1	11352	mmu
protein_codin	H1-M1	6106	mmu
protein_codin	H1-M1	16253	mmu
protein_codin	H1-M1	8233	mmu
protein_codin	H1-M1	2464	mmu
protein_codin	H1-M1	9029	mmu
protein_codin	H1-M1	3832	mmu
protein_codin	H1-M1	2414	mmu
protein_codin	H1-M1	2555	mmu
protein_codin	H1-M*	187	mmu
protein_codin	H1-M1	2770	mmu
protein_codin	H1-M1	15476	mmu
protein_codin	H0-M1	79459	mmu
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protein_codin	H1-M1	2589	mmu
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protein_codin	H1-M1	15233	mmu
protein_codin	H1-M1	10949	mmu
protein_codin	H1-M1	15902	mmu
protein_codin	H1-M1	16033	mmu

protein_codin	H1-M1	6410	mmu
protein_codin	H*-M*	74	mmu
protein_codin	H*-M1	242	mmu
protein_codin	H1-M1	4382	mmu
protein_codin	H1-M1	12401	mmu
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protein_codin	H1-M1	16111	mmu
protein_codin	H0-M1	90810	mmu
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protein_codin	H1-M1	7480	mmu
protein_codin	H1-M1	4289	mmu
protein_codin	H1-M1	7027	mmu
protein_codin	H1-M1	14538	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	3506	mmu
protein_codin	H1-M1	17127	mmu
protein_codin	H1-M1	10613	mmu
protein_codin	H1-M1	16529	mmu
protein_codin	H0-M1	80365	mmu
protein_codin	H1-M1	15421	mmu
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protein_codin	H1-M1	12216	mmu
protein_codin	H1-M1	2550	mmu
protein_codin	H1-M1	11956	mmu

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protein_codin	H0-M1	77140	mmu
protein_codin	H1-M1	4392	mmu
protein_codin	H1-M1	2752	mmu
protein_codin	H1-M1	2722	mmu
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protein_codin	H1-M1	8883	mmu
protein_codin	H1-M1	10463	mmu
protein_codin	H1-M1	7966	mmu
protein_codin	H1-M1	7333	mmu
protein_codin	H1-M*	402	mmu
protein_codin	H1-M1	16363	mmu
protein_codin	H0-M1	85699	mmu
protein_codin	H1-M1	15280	mmu
protein_codin	H*-M1	782	mmu
protein_codin	H1-M1	4325	mmu
protein_codin	H1-M1	17519	mmu
protein_codin	H1-M1	16159	mmu
protein_codin	H1-M1	17447	mmu
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protein_codin	H1-M1	10826	mmu
protein_codin	H1-M1	15652	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	13094	mmu
protein_codin	H1-M1	13124	mmu
protein_codin	H1-M1	17826	mmu
protein_codin	H1-M1	3511	mmu
protein_codin	H1-M1	3784	mmu
protein_codin	H1-M1	8380	mmu
protein_codin	H1-M1	9897	mmu
protein_codin	H1-M1	2150	mmu
protein_codin	H*-M*	56	mmu

protein_codin	H1-M1	16696	mmu
protein_codin	H1-M1	2813	mmu
protein_codin	H1-M1	7492	mmu
protein_codin	H1-M1	16146	mmu
protein_codin	H1-M1	7453	mmu
protein_codin	H1-M1	6132	mmu
protein_codin	H1-M*	744	mmu
protein_codin	H1-M1	13625	mmu
protein_codin	H1-M1	12169	mmu
protein_codin	H1-M1	1074	mmu
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protein_codin	H1-M1	8682	mmu
protein_codin	H1-M1	7260	mmu
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protein_codin	H0-M1	71589	mmu
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protein_codin	H1-M1	15364	mmu
protein_codin	H1-M1	14414	mmu
protein_codin	H1-M1	13890	mmu
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protein_codin	H1-M1	8121	mmu
protein_codin	H1-M1	1353	mmu
protein_codin	H1-M1	6062	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H1-M*	353	mmu
protein_codin	H1-M1	6915	mmu
protein_codin	H1-M1	8483	mmu
protein_codin	H1-M1	7404	mmu
protein_codin	H1-M*	143	mmu
protein_codin	H*-M1	903	mmu
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protein_codin	H1-M1	15656	mmu
protein_codin	H1-M1	11260	mmu
protein_codin	H1-M1	4411	mmu
protein_codin	H1-M1	10024	mmu
protein_codin	H1-M1	7376	mmu
protein_codin	H0-M1	94788	mmu

protein_codin	H1-M1	12459	mmu
protein_codin	H1-M1	5233	mmu
protein_codin	H1-M*	914	mmu
protein_codin	H1-M1	12949	mmu
protein_codin	H1-M1	9228	mmu
protein_codin	H1-M1	11919	mmu
protein_codin	H1-M*	944	mmu
protein_codin	H1-M1	17079	mmu
protein_codin	H1-M*	944	mmu
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protein_codin	H1-M1	11193	mmu
protein_codin	H1-M1	14201	mmu
protein_codin	H1-M1	9159	mmu
protein_codin	H1-M1	7342	mmu
protein_codin	H1-M1	2792	mmu
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protein_codin	H1-M1	2740	mmu
protein_codin	H0-M1	88917	mmu
protein_codin	H1-M1	13187	mmu
protein_codin	H1-M1	17536	mmu
protein_codin	H1-M1	6413	mmu
protein_codin	H1-M1	5219	mmu
protein_codin	H1-M1	8853	mmu
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protein_codin	H1-M1	17635	mmu
protein_codin	H1-M1	17636	mmu
protein_codin	H1-M1	17637	mmu
protein_codin	H1-M1	16119	mmu
protein_codin	H1-M1	15885	mmu
protein_codin	H1-M1	16554	mmu
protein_codin	H1-M1	16158	mmu
protein_codin	H1-M1	2072	mmu
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protein_codin	H1-M1	6781	mmu
protein_codin	H1-M1	8976	mmu
protein_codin	H0-M1	65821	mmu
protein_codin	H1-M1	18023	mmu

protein_codin	H1-M1	12957	mmu
protein_codin	H1-M1	7576	mmu
protein_codin	H1-M1	4414	mmu
protein_codin	H1-M1	12441	mmu
protein_codin	H1-M1	14166	mmu
protein_codin	H1-M1	12454	mmu
protein_codin	H1-M1	14145	mmu
protein_codin	H1-M1	3963	mmu
protein_codin	H*-M*	171	mmu
protein_codin	H1-M1	12863	mmu
protein_codin	H0-M1	82332	mmu
protein_codin	H1-M1	8817	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	9012	mmu
protein_codin	H1-M1	18143	mmu
protein_codin	H1-M1	9713	mmu
protein_codin	H1-M1	9314	mmu
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protein_codin	H1-M1	8750	mmu
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protein_codin	H1-M1	9176	mmu
protein_codin	H1-M1	14250	mmu
protein_codin	H1-M1	15170	mmu
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protein_codin	H1-M1	8789	mmu
protein_codin	H1-M1	1693	mmu
protein_codin	H1-M1	3570	mmu
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protein_codin	H1-M1	2410	mmu
protein_codin	H1-M1	7155	mmu
protein_codin	H1-M1	6401	mmu
protein_codin	H*-M*	256	mmu
protein_codin	H1-M1	12452	mmu

protein_codin	H1-M1	12905	mmu
protein_codin	H1-M1	7823	mmu
protein_codin	H1-M1	4094	mmu
protein_codin	H1-M1	10943	mmu
protein_codin	H1-M*	727	mmu
protein_codin	H1-M1	17844	mmu
protein_codin	H1-M1	1073	mmu
protein_codin	H1-M1	14549	mmu
protein_codin	H1-M1	2912	mmu
protein_codin	H1-M1	1984	mmu
protein_codin	H1-M1	12806	mmu
lncRNA	H0-M1	69822	mmu
protein_codin	H1-M1	11726	mmu
protein_codin	H1-M1	2877	mmu
protein_codin	H1-M1	6164	mmu
protein_codin	H1-M1	14611	mmu
protein_codin	H1-M1	11204	mmu
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protein_codin	H1-M1	4676	mmu
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protein_codin	H1-M1	15870	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	3325	mmu
protein_codin	H1-M1	9061	mmu
protein_codin	H*-M1	762	mmu
protein_codin	H1-M1	15881	mmu
protein_codin	H1-M1	16610	mmu
protein_codin	H1-M1	12815	mmu
protein_codin	H1-M*	949	mmu
protein_codin	H1-M*	948	mmu
protein_codin	H1-M1	13783	mmu
protein_codin	H1-M1	6583	mmu
protein_codin	H1-M1	3411	mmu
protein_codin	H*-M1	802	mmu
protein_codin	H1-M1	16077	mmu
protein_codin	H1-M1	15800	mmu
protein_codin	H1-M1	4724	mmu
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protein_codin	H1-M1	9235	mmu
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protein_codin	H1-M1	16347	mmu
protein_codin	H1-M1	4877	mmu
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protein_codin	H1-M1	9360	mmu
protein_codin	H1-M1	10215	mmu
protein_codin	H1-M1	15019	mmu
protein_codin	H1-M1	3010	mmu

protein_codin	H1-M1	15002	mmu
protein_codin	H1-M1	10277	mmu
protein_codin	H1-M1	6141	mmu
protein_codin	H1-M1	1118	mmu
protein_codin	H1-M1	9434	mmu
protein_codin	H1-M1	2213	mmu
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protein_codin	H1-M*	59	mmu
protein_codin	H1-M1	13774	mmu
protein_codin	H1-M1	15145	mmu
protein_codin	H1-M1	14486	mmu
protein_codin	H1-M1	16183	mmu
protein_codin	H1-M1	17159	mmu
protein_codin	H1-M1	12517	mmu
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protein_codin	H1-M1	1564	mmu
protein_codin	H0-M1	64949	mmu
protein_codin	H1-M1	14917	mmu
protein_codin	H1-M1	3829	mmu
protein_codin	H1-M1	16061	mmu
protein_codin	H1-M1	9296	mmu
protein_codin	H1-M1	14254	mmu
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protein_codin	H1-M1	5961	mmu
protein_codin	H1-M1	14701	mmu
protein_codin	H1-M1	10579	mmu
protein_codin	H1-M1	14279	mmu
protein_codin	H1-M1	14291	mmu
protein_codin	H1-M1	1790	mmu
protein_codin	H1-M1	13404	mmu
protein_codin	H1-M1	13001	mmu
protein_codin	H1-M1	5302	mmu
protein_codin	H1-M1	16777	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	11676	mmu
protein_codin	H1-M1	15951	mmu
protein_codin	H1-M1	13496	mmu
protein_codin	H1-M1	15231	mmu
protein_codin	H0-M1	65117	mmu
protein_codin	H1-M1	14165	mmu
protein_codin	H1-M*	187	mmu
protein_codin	H1-M1	8857	mmu
protein_codin	H0-M1	64913	mmu

protein_codin	H1-M1	13889	mmu
protein_codin	H*-M*	132	mmu
protein_codin	H1-M1	17033	mmu
protein_codin	H1-M1	3547	mmu
protein_codin	H1-M1	17786	mmu
protein_codin	H1-M1	5655	mmu
protein_codin	H1-M1	16191	mmu
protein_codin	H1-M1	8779	mmu
protein_codin	H1-M1	1918	mmu
processed_pse	H0-M1	64721	mmu
protein_codin	H1-M1	2591	mmu
lncRNA	H0-M1	89213	mmu
protein_codin	H1-M1	3254	mmu
protein_codin	H1-M1	7671	mmu
protein_codin	H1-M1	4458	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H0-M1	66840	mmu
protein_codin	H1-M1	5977	mmu
protein_codin	H1-M*	904	mmu
protein_codin	H1-M*	476	mmu
protein_codin	H1-M1	9542	mmu
protein_codin	H0-M1	91722	mmu
protein_codin	H1-M1	7535	mmu
protein_codin	H1-M1	5611	mmu
protein_codin	H1-M1	3677	mmu
protein_codin	H1-M1	13545	mmu
protein_codin	H1-M1	11222	mmu
protein_codin	H1-M1	15732	mmu
protein_codin	H1-M1	2324	mmu
protein_codin	H*-M1	834	mmu
protein_codin	H0-M1	85029	mmu
protein_codin	H1-M1	8901	mmu
protein_codin	H1-M1	4121	mmu
protein_codin	H1-M1	8013	mmu
protein_codin	H1-M*	83	mmu
protein_codin	H0-M1	72110	mmu
protein_codin	H1-M1	7001	mmu
protein_codin	H1-M1	8745	mmu
protein_codin	H1-M1	3553	mmu
protein_codin	H1-M1	13037	mmu
protein_codin	H1-M1	11575	mmu
protein_codin	H1-M1	5107	mmu
protein_codin	H1-M1	12120	mmu
protein_codin	H1-M1	10086	mmu
protein_codin	H0-M1	68334	mmu
protein_codin	H0-M1	75847	mmu
processed_pse	H0-M1	80286	mmu
protein_codin	H1-M1	14493	mmu
protein_codin	H1-M1	16987	mmu
protein_codin	H1-M1	2501	mmu
protein_codin	H1-M1	13717	mmu
protein_codin	H1-M1	11361	mmu

protein_codin	H0-M1	98003	mmu
protein_codin	H1-M*	670	mmu
protein_codin	H1-M1	3519	mmu
protein_codin	H1-M*	439	mmu
processed_pse	H0-M1	73983	mmu
protein_codin	H1-M1	17331	mmu
protein_codin	H1-M1	11277	mmu
protein_codin	H1-M1	11686	mmu
protein_codin	H1-M1	6367	mmu
protein_codin	H1-M1	5762	mmu
protein_codin	H1-M1	8482	mmu
protein_codin	H1-M1	4988	mmu
protein_codin	H1-M1	15642	mmu
protein_codin	H0-M1	93841	mmu
protein_codin	H1-M1	13622	mmu
protein_codin	H0-M1	86446	mmu
protein_codin	H1-M1	14162	mmu
protein_codin	H1-M*	143	mmu
protein_codin	H1-M1	5844	mmu
protein_codin	H1-M1	14401	mmu
protein_codin	H1-M*	426	mmu
protein_codin	H1-M1	16988	mmu
protein_codin	H1-M1	10669	mmu
protein_codin	H1-M1	6114	mmu
protein_codin	H1-M1	4919	mmu
protein_codin	H0-M1	82754	mmu
protein_codin	H1-M1	4206	mmu
protein_codin	H1-M1	15698	mmu
protein_codin	H0-M1	65127	mmu
lncRNA	H0-M1	93266	mmu
protein_codin	H1-M1	3065	mmu
protein_codin	H1-M1	8337	mmu
protein_codin	H0-M1	78981	mmu
protein_codin	H0-M1	76536	mmu
protein_codin	H1-M1	15739	mmu
protein_codin	H1-M1	4433	mmu
protein_codin	H1-M1	13888	mmu
protein_codin	H1-M1	5679	mmu
protein_codin	H1-M1	4024	mmu
protein_codin	H1-M1	15888	mmu
protein_codin	H1-M1	2428	mmu
protein_codin	H1-M1	12593	mmu
protein_codin	H1-M1	15746	mmu
protein_codin	H1-M1	11134	mmu
protein_codin	H1-M1	10892	mmu
protein_codin	H1-M1	16922	mmu
protein_codin	H0-M1	87079	mmu
protein_codin	H1-M1	13328	mmu
protein_codin	H1-M1	16939	mmu
protein_codin	H1-M1	8312	mmu
protein_codin	H1-M1	13438	mmu
processed_pse	H0-M1	80753	mmu

protein_codin	H1-M1	6914	mmu
protein_codin	H0-M1	93233	mmu
protein_codin	H1-M1	7504	mmu
protein_codin	H1-M1	15923	mmu
protein_codin	H1-M1	7904	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	4655	mmu
protein_codin	H1-M1	13041	mmu
protein_codin	H1-M1	14780	mmu
protein_codin	H1-M1	1940	mmu
protein_codin	H1-M1	5076	mmu
protein_codin	H1-M1	6381	mmu
protein_codin	H0-M1	80301	mmu
protein_codin	H1-M1	6763	mmu
protein_codin	H*-M*	232	mmu
protein_codin	H1-M1	5660	mmu
protein_codin	H1-M1	1348	mmu
protein_codin	H1-M1	2172	mmu
processed_pse	H0-M1	69456	mmu
protein_codin	H1-M1	5598	mmu
protein_codin	H1-M1	14181	mmu
protein_codin	H1-M1	18017	mmu
protein_codin	H1-M1	14306	mmu
protein_codin	H1-M1	10675	mmu
protein_codin	H1-M1	10643	mmu
protein_codin	H1-M1	11088	mmu
protein_codin	H1-M1	3083	mmu
protein_codin	H1-M1	8322	mmu
protein_codin	H0-M1	80396	mmu
protein_codin	H1-M1	9318	mmu
protein_codin	H1-M1	9977	mmu
protein_codin	H1-M1	11295	mmu
protein_codin	H1-M1	11737	mmu
protein_codin	H1-M1	7396	mmu
protein_codin	H1-M1	11998	mmu
protein_codin	H1-M1	17656	mmu
protein_codin	H1-M1	10351	mmu
protein_codin	H1-M1	17804	mmu
protein_codin	H1-M1	11849	mmu
protein_codin	H*-M1	113	mmu
protein_codin	H1-M1	11538	mmu
protein_codin	H1-M1	10567	mmu
protein_codin	H1-M1	8290	mmu
protein_codin	H0-M1	76745	mmu
protein_codin	H0-M1	87597	mmu
protein_codin	H1-M1	7130	mmu
protein_codin	H0-M1	93903	mmu
protein_codin	H1-M1	3388	mmu
protein_codin	H1-M1	5532	mmu
lncRNA	H0-M1	96699	mmu
protein_codin	H1-M*	125	mmu
protein_codin	H1-M1	11393	mmu

protein_codin	H1-M1	12993	mmu
protein_codin	H0-M1	71608	mmu
protein_codin	H1-M1	4125	mmu
protein_codin	H1-M1	16645	mmu
protein_codin	H1-M1	14479	mmu
protein_codin	H1-M*	104	mmu
lncRNA	H0-M1	86721	mmu
protein_codin	H1-M*	87	mmu
processed_pse	H0-M1	69099	mmu
protein_codin	H1-M1	9607	mmu
protein_codin	H1-M1	3133	mmu
protein_codin	H1-M1	14449	mmu
protein_codin	H1-M1	15238	mmu
protein_codin	H1-M1	7670	mmu
protein_codin	H1-M1	16042	mmu
protein_codin	H1-M1	10831	mmu
protein_codin	H1-M1	13021	mmu
protein_codin	H1-M1	14090	mmu
protein_codin	H1-M1	10775	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	13862	mmu
protein_codin	H0-M1	91747	mmu
protein_codin	H1-M1	1728	mmu
protein_codin	H0-M1	63479	mmu
protein_codin	H1-M1	4864	mmu
protein_codin	H1-M*	438	mmu
protein_codin	H1-M*	449	mmu
protein_codin	H1-M1	13087	mmu
protein_codin	H1-M*	438	mmu
protein_codin	H1-M1	11574	mmu
protein_codin	H1-M1	12033	mmu
protein_codin	H1-M1	6660	mmu
protein_codin	H1-M1	14024	mmu
protein_codin	H1-M1	12798	mmu
protein_codin	H1-M1	13709	mmu
protein_codin	H1-M1	11729	mmu
lncRNA	H0-M1	71466	mmu
protein_codin	H1-M1	10153	mmu
protein_codin	H1-M1	6898	mmu
protein_codin	H1-M1	16194	mmu
protein_codin	H1-M*	739	mmu
pseudogene	H0-M1	90454	mmu
protein_codin	H0-M1	88919	mmu
protein_codin	H1-M1	17223	mmu
protein_codin	H1-M1	13043	mmu
protein_codin	H1-M1	12054	mmu
protein_codin	H1-M*	290	mmu
protein_codin	H1-M1	1720	mmu
protein_codin	H1-M1	13734	mmu
protein_codin	H0-M1	81881	mmu
protein_codin	H1-M1	17878	mmu
protein_codin	H1-M*	1012	mmu

protein_codin	H0-M1	91761	mmu
protein_codin	H1-M*	597	mmu
protein_codin	H1-M*	740	mmu
protein_codin	H1-M1	15482	mmu
protein_codin	H*-M*	179	mmu
protein_codin	H1-M1	10364	mmu
protein_codin	H1-M1	2617	mmu
protein_codin	H1-M1	2650	mmu
protein_codin	H1-M1	15448	mmu
protein_codin	H1-M1	7388	mmu
protein_codin	H1-M1	3679	mmu
protein_codin	H1-M1	5186	mmu
protein_codin	H1-M1	16665	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	16417	mmu
lncRNA	H0-M1	97612	mmu
protein_codin	H1-M1	2168	mmu
protein_codin	H1-M1	12013	mmu
protein_codin	H1-M1	14964	mmu
protein_codin	H1-M1	11459	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	10160	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	17156	mmu
protein_codin	H0-M1	89797	mmu
protein_codin	H1-M1	13861	mmu
protein_codin	H1-M*	27	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	14631	mmu
protein_codin	H1-M1	14993	mmu
lncRNA	H0-M1	92756	mmu
protein_codin	H1-M1	8304	mmu
protein_codin	H1-M1	5794	mmu
protein_codin	H0-M1	78969	mmu
protein_codin	H1-M*	59	mmu
protein_codin	H0-M1	89714	mmu
protein_codin	H0-M1	89824	mmu
protein_codin	H0-M1	68348	mmu
protein_codin	H*-M1	1024	mmu
protein_codin	H1-M1	16587	mmu
protein_codin	H1-M1	4123	mmu
protein_codin	H1-M1	12326	mmu
protein_codin	H0-M1	85033	mmu
protein_codin	H1-M1	7418	mmu
protein_codin	H1-M1	1293	mmu
protein_codin	H*-M*	74	mmu
transcribed_pr	H0-M1	65206	mmu
protein_codin	H1-M*	573	mmu
protein_codin	H1-M1	12153	mmu
protein_codin	H1-M1	3311	mmu
protein_codin	H*-M1	1014	mmu
protein_codin	H0-M1	96195	mmu

protein_codin	H*-M*	358	mmu
protein_codin	H1-M1	17226	mmu
protein_codin	H1-M1	12530	mmu
protein_codin	H*-M*	280	mmu
protein_codin	H1-M*	187	mmu
protein_codin	H1-M*	63	mmu
protein_codin	H0-M1	80778	mmu
protein_codin	H1-M1	1422	mmu
protein_codin	H1-M1	2569	mmu
protein_codin	H0-M1	96668	mmu
lncRNA	H0-M1	68199	mmu
protein_codin	H1-M1	1419	mmu
protein_codin	H1-M1	18012	mmu
protein_codin	H1-M1	12417	mmu
protein_codin	H0-M1	88923	mmu
protein_codin	H*-M*	130	mmu
protein_codin	H1-M1	8802	mmu
protein_codin	H*-M*	358	mmu
protein_codin	H1-M1	12534	mmu
protein_codin	H1-M1	11065	mmu
protein_codin	H0-M1	93230	mmu
protein_codin	H1-M*	432	mmu
protein_codin	H0-M1	87579	mmu
protein_codin	H1-M1	6448	mmu
protein_codin	H*-M*	256	mmu
protein_codin	H1-M1	3389	mmu
protein_codin	H1-M1	5926	mmu
protein_codin	H1-M1	14193	mmu
protein_codin	H1-M1	3998	mmu
unprocessed_p	H0-M1	71625	mmu
protein_codin	H1-M1	7886	mmu
protein_codin	H1-M1	16087	mmu
protein_codin	H1-M1	10352	mmu
processed_pse	H0-M1	94883	mmu
protein_codin	H*-M*	202	mmu
protein_codin	H*-M*	81	mmu
protein_codin	H0-M1	94546	mmu
protein_codin	H1-M1	10085	mmu
protein_codin	H0-M1	94221	mmu
protein_codin	H1-M*	691	mmu
protein_codin	H0-M1	71583	mmu
protein_codin	H0-M1	88889	mmu
protein_codin	H0-M1	61720	mmu
protein_codin	H*-M*	30	mmu
protein_codin	H0-M1	63899	mmu
protein_codin	H1-M*	10	mmu
protein_codin	H1-M1	5771	mmu
protein_codin	H0-M1	87923	mmu
transcribed_ur	H0-M1	95746	mmu
processed_pse	H0-M1	63483	mmu
protein_codin	H1-M1	9725	mmu
processed_pse	H0-M1	63212	mmu

protein_codin	H1-M*	573	mmu
protein_codin	H*-M*	30	mmu
protein_codin	H1-M1	2399	mmu
Mt_rRNA	H0-M1	61676	mmu
Mt_tRNA	H0-M1	61689	mmu
snoRNA	H1-M1	13013	mmu
snoRNA	H1-M1	7607	mmu
snoRNA	H0-M1	86152	mmu
snoRNA	H0-M1	78812	mmu
snRNA	H0-M1	88925	mmu
snoRNA	H1-M1	9250	mmu
snoRNA	H1-M1	11545	mmu
snoRNA	H*-M*	230	mmu
snoRNA	H1-M1	9254	mmu
miRNA	H1-M1	17210	mmu
snoRNA	H1-M*	955	mmu
miRNA	H1-M1	17045	mmu
miRNA	H1-M1	6495	mmu
snoRNA	H1-M*	955	mmu
snoRNA	H*-M*	310	mmu
snoRNA	H1-M1	8648	mmu
lncRNA	H0-M1	88443	mmu
processed_pse	H0-M1	73272	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M*	59	mmu
protein_codin	H1-M*	59	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	12366	mmu
protein_codin	H1-M1	15846	mmu
protein_codin	H1-M1	16549	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	1678	mmu
protein_codin	H1-M*	597	mmu
transcribed_ur	H0-M1	89179	mmu
protein_codin	H0-M1	91752	mmu
protein_codin	H0-M1	89305	mmu
protein_codin	H1-M*	353	mmu
unprocessed_p	H0-M1	75249	mmu
protein_codin	H1-M1	16711	mmu
protein_codin	H0-M1	83734	mmu
protein_codin	H1-M1	7495	mmu
protein_codin	H1-M1	1180	mmu
protein_codin	H1-M1	6100	mmu
protein_codin	H1-M*	7	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	17021	mmu
protein_codin	H1-M*	849	mmu
protein_codin	H1-M1	8369	mmu
protein_codin	H0-M1	63463	mmu
protein_codin	H1-M1	17623	mmu

protein_codin	H0-M1	85951	mmu
protein_codin	H1-M1	3818	mmu
protein_codin	H0-M1	87592	mmu
protein_codin	H1-M*	914	mmu
protein_codin	H1-M*	958	mmu
protein_codin	H1-M1	7625	mmu
protein_codin	H0-M1	89680	mmu
protein_codin	H1-M*	439	mmu
protein_codin	H0-M1	79151	mmu
protein_codin	H0-M1	79059	mmu
protein_codin	H1-M1	11921	mmu
protein_codin	H0-M1	94257	mmu
protein_codin	H1-M*	109	mmu
protein_codin	H1-M1	10828	mmu
protein_codin	H1-M1	4304	mmu
protein_codin	H1-M1	16850	mmu
protein_codin	H1-M1	16530	mmu
protein_codin	H0-M1	96001	mmu
protein_codin	H1-M1	3672	mmu
protein_codin	H1-M1	16128	mmu
protein_codin	H1-M1	5158	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	17952	mmu
protein_codin	H1-M1	4709	mmu
protein_codin	H1-M1	18034	mmu
protein_codin	H1-M1	2677	mmu
protein_codin	H1-M1	17300	mmu
protein_codin	H*-M*	12	mmu
processed_pse	H0-M1	78860	mmu
protein_codin	H1-M1	3424	mmu
protein_codin	H1-M1	6102	mmu
lncRNA	H0-M1	90923	mmu
protein_codin	H1-M1	3907	mmu
protein_codin	H1-M1	13665	mmu
protein_codin	H0-M1	65236	mmu
protein_codin	H1-M*	580	mmu
protein_codin	H1-M1	4928	mmu
protein_codin	H1-M*	290	mmu
protein_codin	H1-M1	1852	mmu
protein_codin	H1-M1	13006	mmu
protein_codin	H1-M1	8585	mmu
protein_codin	H1-M*	63	mmu
protein_codin	H0-M1	88143	mmu
protein_codin	H1-M1	10390	mmu
protein_codin	H1-M*	593	mmu
protein_codin	H1-M*	593	mmu
protein_codin	H1-M1	1300	mmu
lncRNA	H0-M1	91362	mmu
protein_codin	H1-M1	6244	mmu
transcribed_pr	H0-M1	81562	mmu
protein_codin	H1-M1	3590	mmu
protein_codin	H*-M*	192	mmu

transcribed_ur	H0-M1	95769	mmu
lncRNA	H0-M1	84660	mmu
protein_codin	H1-M1	7950	mmu
lncRNA	H0-M1	92442	mmu
protein_codin	H0-M1	78732	mmu
lncRNA	H0-M1	79765	mmu
protein_codin	H0-M1	64882	mmu
protein_codin	H1-M1	8315	mmu
protein_codin	H0-M1	89006	mmu
unprocessed_p	H0-M1	88978	mmu
protein_codin	H0-M1	88939	mmu
lncRNA	H0-M1	91775	mmu
protein_codin	H0-M1	88922	mmu
protein_codin	H0-M1	88896	mmu
protein_codin	H1-M1	6565	mmu
protein_codin	H*-M1	754	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	1571	mmu
lncRNA	H0-M1	76804	mmu
protein_codin	H0-M1	63455	mmu
protein_codin	H1-M1	12892	mmu
lncRNA	H0-M1	94264	mmu
protein_codin	H0-M1	79579	mmu
protein_codin	H1-M1	16709	mmu
protein_codin	H1-M1	4745	mmu
unprocessed_p	H0-M1	95537	mmu
unprocessed_p	H0-M1	72122	mmu
protein_codin	H1-M1	11188	mmu
protein_codin	H0-M1	89775	mmu
protein_codin	H1-M*	402	mmu
protein_codin	H1-M1	6542	mmu
protein_codin	H1-M1	12461	mmu
protein_codin	H1-M1	12526	mmu
TEC	H0-M1	84696	mmu
protein_codin	H1-M1	12182	mmu
protein_codin	H1-M1	17569	mmu
protein_codin	H1-M1	11583	mmu
protein_codin	H*-M*	74	mmu
unprocessed_p	H0-M1	78309	mmu
protein_codin	H*-M*	74	mmu
transcribed_ur	H0-M1	95693	mmu
processed_pse	H0-M1	77536	mmu
lncRNA	H0-M1	74579	mmu
protein_codin	H1-M1	3221	mmu
lncRNA	H0-M1	97710	mmu
protein_codin	H1-M1	1229	mmu
protein_codin	H1-M1	2259	mmu
protein_codin	H1-M1	7340	mmu
protein_codin	H1-M1	1807	mmu
protein_codin	H*-M*	78	mmu

protein_codin	H1-M*	977	mmu
lncRNA	H0-M1	94961	mmu
protein_codin	H1-M1	1890	mmu
lncRNA	H0-M1	92903	mmu
protein_codin	H1-M1	2504	mmu
protein_codin	H0-M1	80324	mmu
protein_codin	H*-M*	122	mmu
protein_codin	H1-M*	691	mmu
protein_codin	H1-M1	11024	mmu
lncRNA	H0-M1	83724	mmu
lncRNA	H0-M1	90662	mmu
protein_codin	H1-M1	5117	mmu
protein_codin	H1-M*	788	mmu
protein_codin	H1-M*	105	mmu
protein_codin	H1-M1	12248	mmu
protein_codin	H1-M1	12353	mmu
miRNA	H1-M1	2873	mmu
miRNA	H0-M1	96034	mmu
miRNA	H1-M1	4840	mmu
protein_codin	H1-M*	1008	mmu
protein_codin	H1-M1	7936	mmu
snoRNA	H1-M1	2940	mmu
snoRNA	H1-M*	533	mmu
snoRNA	H1-M1	17754	mmu
snoRNA	H1-M1	2941	mmu
snoRNA	H1-M1	9754	mmu
lncRNA	H0-M1	82554	mmu
protein_codin	H1-M*	582	mmu
lncRNA	H0-M1	79928	mmu
processed_pse	H0-M1	79301	mmu
protein_codin	H0-M1	85096	mmu
lncRNA	H0-M1	93916	mmu
protein_codin	H*-M*	12	mmu
protein_codin	H*-M*	12	mmu
protein_codin	H0-M1	72090	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H0-M1	67574	mmu
protein_codin	H*-M*	192	mmu
protein_codin	H1-M1	13986	mmu
protein_codin	H*-M*	78	mmu
protein_codin	H*-M*	78	mmu
protein_codin	H1-M1	14798	mmu
protein_codin	H1-M*	439	mmu
processed_pse	H0-M1	64710	mmu
protein_codin	H0-M1	80372	mmu
protein_codin	H0-M1	79154	mmu
protein_codin	H0-M1	79147	mmu
protein_codin	H0-M1	65163	mmu
lncRNA	H0-M1	82025	mmu
protein_codin	H1-M1	7636	mmu
protein_codin	H1-M*	59	mmu
protein_codin	H1-M*	59	mmu

protein_codin	H1-M*	59	mmu
protein_codin	H0-M1	75091	mmu
protein_codin	H1-M*	105	mmu
protein_codin	H0-M1	68839	mmu
lncRNA	H0-M1	97971	mmu
protein_codin	H1-M1	17278	mmu
protein_codin	H1-M*	598	mmu
protein_codin	H1-M*	761	mmu
protein_codin	H0-M1	61708	mmu
protein_codin	H0-M1	61715	mmu
protein_codin	H1-M*	582	mmu
protein_codin	H1-M1	15894	mmu
protein_codin	H1-M1	16162	mmu
protein_codin	H1-M1	2682	mmu
protein_codin	H0-M1	74305	mmu
protein_codin	H1-M1	17937	mmu
protein_codin	H1-M*	353	mmu
protein_codin	H0-M1	69661	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H0-M1	86383	mmu
protein_codin	H*-M*	273	mmu
transcribed_ur	H0-M1	94240	mmu
protein_codin	H0-M1	94237	mmu
protein_codin	H1-M1	7080	mmu
protein_codin	H0-M1	88991	mmu
protein_codin	H0-M1	88932	mmu
protein_codin	H0-M1	88912	mmu
protein_codin	H0-M1	71451	mmu
protein_codin	H1-M*	63	mmu
protein_codin	H1-M1	8800	mmu
protein_codin	H1-M1	16176	mmu
protein_codin	H1-M1	4813	mmu
protein_codin	H1-M*	109	mmu
processed_pse	H0-M1	94735	mmu
snoRNA	H1-M*	817	mmu
processed_pse	H0-M1	93719	mmu
unprocessed_p	H0-M1	78310	mmu
processed_pse	H0-M1	72562	mmu
processed_pse	H0-M1	76914	mmu
processed_pse	H0-M1	81048	mmu
unprocessed_p	H0-M1	81670	mmu
processed_pse	H0-M1	85653	mmu
processed_pse	H0-M1	95527	mmu
processed_pse	H0-M1	82737	mmu
lncRNA	H0-M1	90711	mmu
protein_codin	H*-M*	74	mmu
unprocessed_p	H0-M1	81296	mmu
processed_pse	H0-M1	66422	mmu
processed_pse	H0-M1	87905	mmu
processed_pse	H0-M1	90847	mmu
protein_codin	H1-M*	655	mmu
unprocessed_p	H0-M1	97052	mmu

unprocessed_p	H0-M1	70815	mmu
processed_pse	H0-M1	96368	mmu
processed_pse	H0-M1	89637	mmu
processed_pse	H0-M1	98118	mmu
processed_pse	H0-M1	75409	mmu
processed_pse	H0-M1	89470	mmu
processed_pse	H0-M1	72835	mmu
processed_pse	H0-M1	94224	mmu
unprocessed_p	H0-M1	95490	mmu
unprocessed_p	H0-M1	65524	mmu
unprocessed_p	H0-M1	93584	mmu
protein_codin	H0-M1	70185	mmu
processed_pse	H0-M1	96103	mmu
transcribed_ur	H0-M1	95771	mmu
unprocessed_p	H0-M1	79157	mmu
processed_pse	H0-M1	81996	mmu
unprocessed_p	H0-M1	95487	mmu
processed_pse	H0-M1	90921	mmu
processed_pse	H0-M1	96327	mmu
processed_pse	H0-M1	79150	mmu
unprocessed_p	H0-M1	72728	mmu
processed_pse	H0-M1	76694	mmu
miRNA	H0-M1	75462	mmu
lncRNA	H0-M1	79802	mmu
lncRNA	H0-M1	90040	mmu
lncRNA	H0-M1	97014	mmu
lncRNA	H0-M1	78980	mmu
lncRNA	H0-M1	68731	mmu
lncRNA	H0-M1	98116	mmu
lncRNA	H0-M1	66325	mmu
lncRNA	H0-M1	90668	mmu
lncRNA	H0-M1	86158	mmu
lncRNA	H0-M1	92092	mmu
lncRNA	H0-M1	95011	mmu
lncRNA	H0-M1	77388	mmu
lncRNA	H0-M1	95957	mmu
lncRNA	H0-M1	97785	mmu
lncRNA	H0-M1	88639	mmu
processed_pse	H0-M1	77773	mmu
lncRNA	H0-M1	92906	mmu
unprocessed_p	H0-M1	95269	mmu
transcribed_pr	H0-M1	71181	mmu
processed_pse	H0-M1	63460	mmu
lncRNA	H0-M1	97600	mmu
lncRNA	H0-M1	97204	mmu
lncRNA	H0-M1	97634	mmu
lncRNA	H0-M1	90225	mmu
lncRNA	H0-M1	92461	mmu
lncRNA	H0-M1	97008	mmu
lncRNA	H0-M1	75859	mmu
lncRNA	H0-M1	78954	mmu
lncRNA	H0-M1	94943	mmu

lncRNA	H0-M1	70973	mmu
lncRNA	H0-M1	82612	mmu
processed_pse	H0-M1	87673	mmu
unprocessed_p	H0-M1	72032	mmu
lncRNA	H0-M1	90516	mmu
lncRNA	H0-M1	97617	mmu
lncRNA	H0-M1	93783	mmu
lncRNA	H0-M1	97666	mmu
protein_codin	H1-M1	16210	mmu
lncRNA	H0-M1	75412	mmu
lncRNA	H0-M1	68897	mmu
lncRNA	H0-M1	86814	mmu
lncRNA	H0-M1	96353	mmu
protein_codin	H1-M1	9325	mmu
lncRNA	H0-M1	94489	mmu
lncRNA	H0-M1	65330	mmu
lncRNA	H0-M1	84661	mmu
lncRNA	H0-M1	97709	mmu
lncRNA	H0-M1	97201	mmu
lncRNA	H0-M1	73245	mmu
protein_codin	H1-M1	8306	mmu
lncRNA	H0-M1	90005	mmu
lncRNA	H0-M1	97795	mmu
snRNA	H1-M1	2146	mmu
scaRNA	H0-M1	90366	mmu
transcribed_ur	H0-M1	94236	mmu
processed_pse	H0-M1	92171	mmu
protein_codin	H1-M1	10855	mmu
protein_codin	H0-M1	71832	mmu
lncRNA	H0-M1	80814	mmu
lncRNA	H0-M1	70913	mmu
protein_codin	H0-M1	87339	mmu
protein_codin	H1-M*	234	mmu
processed_pse	H0-M1	94156	mmu
unprocessed_p	H0-M1	94246	mmu
protein_codin	H*-M*	74	mmu
transcribed_pr	H0-M1	80316	mmu
lncRNA	H0-M1	87157	mmu
lncRNA	H0-M1	94256	mmu
lncRNA	H0-M1	82045	mmu
protein_codin	H1-M1	18121	mmu
protein_codin	H1-M1	3966	mmu
lncRNA	H0-M1	94089	mmu
protein_codin	H0-M1	83932	mmu
protein_codin	H1-M*	740	mmu
unprocessed_p	H0-M1	89663	mmu
protein_codin	H0-M1	71037	mmu
lncRNA	H0-M1	90240	mmu
protein_codin	H1-M1	13067	mmu
protein_codin	H1-M*	449	mmu
lncRNA	H0-M1	73241	mmu
lncRNA	H0-M1	79188	mmu

unprocessed_p	H0-M1	92141	mmu
protein_codin	H0-M1	88368	mmu
protein_codin	H1-M1	6536	mmu
protein_codin	H1-M1	8155	mmu
protein_codin	H1-M1	16256	mmu
protein_codin	H*-M*	127	mmu
lncRNA	H0-M1	80489	mmu
processed_pse	H0-M1	67438	mmu
protein_codin	H0-M1	84659	mmu
protein_codin	H1-M1	14115	mmu
unprocessed_p	H0-M1	88659	mmu
unprocessed_p	H0-M1	87393	mmu
protein_codin	H0-M1	63466	mmu
protein_codin	H1-M1	18160	mmu
protein_codin	H1-M*	210	mmu
unprocessed_p	H0-M1	76084	mmu
lncRNA	H0-M1	94242	mmu
transcribed_ur	H0-M1	88344	mmu
protein_codin	H*-M*	132	mmu
unprocessed_p	H0-M1	88938	mmu
lncRNA	H0-M1	85465	mmu
protein_codin	H0-M1	88440	mmu
lncRNA	H0-M1	95532	mmu
processed_pse	H0-M1	89613	mmu
unprocessed_p	H0-M1	75426	mmu
protein_codin	H0-M1	88627	mmu
lncRNA	H0-M1	92504	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H0-M1	88914	mmu
processed_pse	H0-M1	81088	mmu
protein_codin	H0-M1	88336	mmu
processed_pse	H0-M1	80066	mmu
unprocessed_p	H0-M1	92180	mmu
processed_pse	H0-M1	86719	mmu
protein_codin	H1-M1	5741	mmu
processed_pse	H0-M1	81462	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H1-M1	4547	mmu
lncRNA	H0-M1	80271	mmu
protein_codin	H0-M1	86187	mmu
lncRNA	H0-M1	74973	mmu
unprocessed_p	H0-M1	87683	mmu
lncRNA	H0-M1	76089	mmu
protein_codin	H0-M1	88983	mmu
protein_codin	H0-M1	88995	mmu
processed_pse	H0-M1	88931	mmu
lncRNA	H0-M1	88005	mmu
unprocessed_p	H0-M1	91680	mmu
protein_codin	H1-M*	785	mmu
lncRNA	H0-M1	88990	mmu
lncRNA	H0-M1	91746	mmu

processed_pse	H0-M1	86959	mmu
lncRNA	H0-M1	88900	mmu
unprocessed_p	H0-M1	69568	mmu
lncRNA	H0-M1	65530	mmu
lncRNA	H0-M1	73125	mmu
protein_codin	H0-M1	71104	mmu
protein_codin	H1-M1	7210	mmu
processed_pse	H0-M1	88921	mmu
lncRNA	H0-M1	92006	mmu
protein_codin	H0-M1	68354	mmu
protein_codin	H1-M1	5827	mmu
lncRNA	H0-M1	96335	mmu
snoRNA	H1-M1	6085	mmu
lncRNA	H0-M1	68215	mmu
snoRNA	H1-M1	1621	mmu
protein_codin	H1-M*	376	mmu
unprocessed_p	H0-M1	88417	mmu
protein_codin	H1-M1	13983	mmu
protein_codin	H*-M*	29	mmu
protein_codin	H0-M1	82720	mmu
unprocessed_p	H0-M1	95513	mmu
processed_pse	H0-M1	77336	mmu
processed_pse	H0-M1	93079	mmu
protein_codin	H0-M1	88360	mmu
processed_pse	H0-M1	70084	mmu
protein_codin	H1-M*	748	mmu
transcribed_ur	H0-M1	88364	mmu
protein_codin	H1-M*	376	mmu
lncRNA	H0-M1	82695	mmu
protein_codin	H0-M1	82726	mmu
protein_codin	H1-M*	109	mmu
processed_pse	H0-M1	73844	mmu
protein_codin	H1-M*	109	mmu
protein_codin	H1-M*	748	mmu
protein_codin	H*-M*	78	mmu
protein_codin	H0-M1	82512	mmu
protein_codin	H0-M1	67513	mmu
protein_codin	H1-M*	109	mmu
protein_codin	H*-M*	12	mmu
protein_codin	H0-M1	88365	mmu
unprocessed_p	H0-M1	93582	mmu
lncRNA	H0-M1	63081	mmu
unprocessed_p	H0-M1	72116	mmu
protein_codin	H0-M1	87427	mmu
protein_codin	H*-M*	12	mmu
protein_codin	H0-M1	82493	mmu
protein_codin	H0-M1	82513	mmu
protein_codin	H1-M*	63	mmu
unprocessed_p	H0-M1	72100	mmu
protein_codin	H1-M*	109	mmu
protein_codin	H*-M*	78	mmu
processed_pse	H0-M1	73761	mmu

protein_codin	H1-M1	10107	mmu
protein_codin	H0-M1	86354	mmu
protein_codin	H*-M*	12	mmu
protein_codin	H*-M*	29	mmu
protein_codin	H1-M1	7961	mmu
protein_codin	H0-M1	88302	mmu
transcribed_ur	H0-M1	95536	mmu
lncRNA	H0-M1	91484	mmu
lncRNA	H0-M1	87994	mmu
lncRNA	H0-M1	76911	mmu
lncRNA	H0-M1	81667	mmu
lncRNA	H0-M1	88526	mmu
lncRNA	H0-M1	79306	mmu
lncRNA	H0-M1	84822	mmu
lncRNA	H0-M1	71931	mmu
lncRNA	H0-M1	90319	mmu
lncRNA	H0-M1	67155	mmu
lncRNA	H0-M1	86961	mmu
lncRNA	H0-M1	88205	mmu
lncRNA	H0-M1	76947	mmu
lncRNA	H0-M1	83283	mmu
lncRNA	H0-M1	81721	mmu
lncRNA	H0-M1	82309	mmu
lncRNA	H0-M1	75455	mmu
lncRNA	H0-M1	67854	mmu
lncRNA	H0-M1	92784	mmu
lncRNA	H0-M1	95470	mmu
lncRNA	H0-M1	67446	mmu
lncRNA	H0-M1	90196	mmu
lncRNA	H0-M1	82823	mmu
lncRNA	H0-M1	74863	mmu
lncRNA	H0-M1	81816	mmu
lncRNA	H0-M1	77569	mmu
protein_codin	H0-M1	97768	mmu
processed_pse	H0-M1	72961	mmu
lncRNA	H0-M1	88054	mmu
protein_codin	H0-M1	84766	mmu
lncRNA	H0-M1	85206	mmu
miRNA	H0-M1	71114	mmu
protein_codin	H1-M*	739	mmu
lncRNA	H0-M1	85207	mmu
lncRNA	H0-M1	95557	mmu
protein_codin	H1-M*	426	mmu
unprocessed_p	H0-M1	72113	mmu
miRNA	H0-M1	94194	mmu
protein_codin	H0-M1	97842	mmu
miRNA	H0-M1	69752	mmu
miRNA	H0-M1	94712	mmu
miRNA	H0-M1	68237	mmu
processed_pse	H0-M1	72095	mmu
lncRNA	H0-M1	84758	mmu
protein_codin	H1-M1	5772	mmu

lncRNA	H0-M1	91339	mmu
unprocessed_p	H0-M1	71113	mmu
unprocessed_p	H0-M1	84079	mmu
lncRNA	H0-M1	91546	mmu
processed_pse	H0-M1	89561	mmu
lncRNA	H0-M1	73925	mmu
protein_codin	H1-M*	234	mmu
protein_codin	H*-M*	12	mmu
lncRNA	H0-M1	76765	mmu
lncRNA	H0-M1	88662	mmu
lncRNA	H0-M1	87553	mmu
lncRNA	H0-M1	84070	mmu
lncRNA	H0-M1	93538	mmu
lncRNA	H0-M1	89010	mmu
lncRNA	H0-M1	72570	mmu
lncRNA	H0-M1	95018	mmu
lncRNA	H0-M1	81214	mmu
protein_codin	H0-M1	74066	mmu
processed_pse	H0-M1	70525	mmu
transcribed_pr	H0-M1	78274	mmu
protein_codin	H*-M*	12	mmu
lncRNA	H0-M1	83723	mmu
unprocessed_p	H0-M1	71667	mmu
lncRNA	H0-M1	66827	mmu
protein_codin	H*-M*	179	mmu
lncRNA	H0-M1	92007	mmu
lncRNA	H0-M1	90241	mmu
lncRNA	H0-M1	69893	mmu
lncRNA	H0-M1	67846	mmu
lncRNA	H0-M1	70931	mmu
unprocessed_p	H0-M1	94248	mmu
lncRNA	H0-M1	80382	mmu
lncRNA	H0-M1	80657	mmu
protein_codin	H1-M*	234	mmu
transcribed_ur	H0-M1	84560	mmu
lncRNA	H0-M1	71941	mmu
unprocessed_p	H0-M1	89678	mmu
TEC	H0-M1	83021	mmu
TEC	H0-M1	69344	mmu
TEC	H0-M1	72146	mmu
TEC	H0-M1	70588	mmu
TEC	H0-M1	92995	mmu
TEC	H0-M1	74369	mmu
transcribed_ur	H0-M1	92234	mmu
TEC	H0-M1	87236	mmu
lncRNA	H0-M1	75571	mmu
TEC	H0-M1	85997	mmu
TEC	H0-M1	87238	mmu
processed_pse	H0-M1	70172	mmu
lncRNA	H0-M1	79262	mmu
TEC	H0-M1	85998	mmu
unprocessed_p	H0-M1	89734	mmu

TEC	H0-M1	89173	mmu
processed_pse	H0-M1	88943	mmu
processed_pse	H0-M1	78857	mmu
TEC	H0-M1	91253	mmu
TEC	H0-M1	75251	mmu
TEC	H0-M1	90753	mmu
TEC	H0-M1	90111	mmu
processed_pse	H0-M1	84364	mmu
lncRNA	H0-M1	86860	mmu
TEC	H0-M1	87430	mmu
lncRNA	H0-M1	97394	mmu
lncRNA	H0-M1	75434	mmu
TEC	H0-M1	67347	mmu
protein_codin	H1-M*	144	mmu
TEC	H0-M1	86938	mmu
lncRNA	H0-M1	75432	mmu
lncRNA	H0-M1	78069	mmu
lncRNA	H0-M1	91890	mmu
lncRNA	H0-M1	92634	mmu
TEC	H0-M1	85471	mmu
TEC	H0-M1	71827	mmu
protein_codin	H1-M*	144	mmu
miRNA	H1-M*	957	mmu
unprocessed_p	H0-M1	80266	mmu
processed_pse	H0-M1	80146	mmu
lncRNA	H0-M1	89538	mmu
lncRNA	H0-M1	88328	mmu
TEC	H0-M1	91889	mmu
protein_codin	H1-M1	17229	mmu
protein_codin	H0-M1	90440	mmu
TEC	H0-M1	66321	mmu
TEC	H0-M1	68284	mmu
lncRNA	H0-M1	80817	mmu
TEC	H0-M1	96523	mmu
TEC	H0-M1	69517	mmu
processed_pse	H0-M1	84345	mmu
lncRNA	H0-M1	96575	mmu
lncRNA	H0-M1	74603	mmu
lncRNA	H0-M1	80164	mmu
protein_codin	H0-M1	94705	mmu
TEC	H0-M1	86940	mmu
lncRNA	H0-M1	92519	mmu
TEC	H0-M1	97206	mmu
processed_pse	H0-M1	87955	mmu
lncRNA	H0-M1	92559	mmu
lncRNA	H0-M1	96567	mmu
TEC	H0-M1	75491	mmu
TEC	H0-M1	91071	mmu
TEC	H0-M1	94021	mmu
lncRNA	H0-M1	93724	mmu
lncRNA	H0-M1	96423	mmu
TEC	H0-M1	91074	mmu

lncRNA	H0-M1	93446	mmu
lncRNA	H0-M1	69935	mmu
lncRNA	H0-M1	84010	mmu
TEC	H0-M1	75583	mmu
lncRNA	H0-M1	76007	mmu
lncRNA	H0-M1	68168	mmu
unprocessed_p	H0-M1	68578	mmu
lncRNA	H0-M1	80273	mmu
lncRNA	H0-M1	74165	mmu
lncRNA	H0-M1	94745	mmu
TEC	H0-M1	93701	mmu
TEC	H0-M1	83439	mmu
TEC	H0-M1	76010	mmu
lncRNA	H0-M1	92342	mmu
TEC	H0-M1	90850	mmu
lncRNA	H0-M1	92382	mmu
lncRNA	H0-M1	92343	mmu
lncRNA	H0-M1	80297	mmu
TEC	H0-M1	92677	mmu
lncRNA	H0-M1	93142	mmu
TEC	H0-M1	91765	mmu
TEC	H0-M1	79309	mmu
lncRNA	H0-M1	81241	mmu
TEC	H0-M1	71175	mmu
processed_pse	H0-M1	80849	mmu
protein_codin	H0-M1	80846	mmu
lncRNA	H0-M1	67993	mmu
TEC	H0-M1	92462	mmu
lncRNA	H0-M1	95562	mmu
protein_codin	H1-M1	16450	mmu
lncRNA	H0-M1	95757	mmu
lncRNA	H0-M1	93546	mmu
lncRNA	H0-M1	69951	mmu
protein_codin	H0-M1	80172	mmu
TEC	H0-M1	67157	mmu
TEC	H0-M1	79074	mmu
TEC	H0-M1	76262	mmu
lncRNA	H0-M1	87825	mmu
processed_pse	H0-M1	88658	mmu
TEC	H0-M1	72031	mmu
processed_pse	H0-M1	96345	mmu
lncRNA	H0-M1	72421	mmu
TEC	H0-M1	76100	mmu
lncRNA	H0-M1	95617	mmu
protein_codin	H0-M1	96190	mmu
processed_pse	H0-M1	96364	mmu
protein_codin	H1-M1	17041	mmu
lncRNA	H0-M1	96926	mmu
TEC	H0-M1	79805	mmu
TEC	H0-M1	76105	mmu
lncRNA	H0-M1	72485	mmu
lncRNA	H0-M1	79345	mmu

lncRNA	H0-M1	96973	mmu
protein_codin	H1-M1	13879	mmu
lncRNA	H0-M1	86831	mmu
processed_pse	H0-M1	73549	mmu
lncRNA	H0-M1	87999	mmu
lncRNA	H0-M1	87109	mmu
lncRNA	H0-M1	70956	mmu
lncRNA	H0-M1	90483	mmu
lncRNA	H0-M1	71003	mmu
processed_pse	H0-M1	75862	mmu
processed_pse	H0-M1	75508	mmu
lncRNA	H0-M1	92773	mmu
lncRNA	H0-M1	71508	mmu
lncRNA	H0-M1	94092	mmu
lncRNA	H0-M1	80885	mmu
lncRNA	H0-M1	85242	mmu
lncRNA	H0-M1	66866	mmu
lncRNA	H0-M1	66877	mmu
lncRNA	H0-M1	90481	mmu
unprocessed_p	H0-M1	93771	mmu
lncRNA	H0-M1	92726	mmu
lncRNA	H0-M1	86519	mmu
TEC	H0-M1	65633	mmu
transcribed_pr	H0-M1	77396	mmu
TEC	H0-M1	82638	mmu
protein_codin	H0-M1	71587	mmu
protein_codin	H0-M1	71607	mmu
lncRNA	H0-M1	71204	mmu
lncRNA	H0-M1	77026	mmu
lncRNA	H0-M1	77501	mmu
lncRNA	H0-M1	80667	mmu
lncRNA	H0-M1	90200	mmu
processed_pse	H0-M1	82241	mmu
lncRNA	H0-M1	71532	mmu
lncRNA	H0-M1	91543	mmu
lncRNA	H0-M1	71644	mmu
lncRNA	H0-M1	81315	mmu
lncRNA	H0-M1	71636	mmu
TEC	H0-M1	69748	mmu
processed_pse	H0-M1	84165	mmu
lncRNA	H0-M1	81278	mmu
lncRNA	H0-M1	78103	mmu
unprocessed_p	H0-M1	84078	mmu
lncRNA	H0-M1	64723	mmu
lncRNA	H0-M1	83604	mmu
processed_pse	H0-M1	73923	mmu
lncRNA	H0-M1	84163	mmu
transcribed_pr	H0-M1	82125	mmu
lncRNA	H0-M1	69341	mmu
lncRNA	H0-M1	79941	mmu
protein_codin	H0-M1	70484	mmu
lncRNA	H0-M1	70761	mmu

lncRNA	H0-M1	78079	mmu
lncRNA	H0-M1	69172	mmu
lncRNA	H0-M1	76547	mmu
processed_pse	H0-M1	80277	mmu
processed_pse	H0-M1	68584	mmu
TEC	H0-M1	81727	mmu
lncRNA	H0-M1	82504	mmu
protein_codin	H0-M1	80319	mmu
lncRNA	H0-M1	75864	mmu
processed_pse	H0-M1	84694	mmu
processed_pse	H0-M1	82502	mmu
lncRNA	H0-M1	64255	mmu
lncRNA	H0-M1	88742	mmu
protein_codin	H0-M1	64565	mmu
protein_codin	H1-M1	8974	mmu
protein_codin	H0-M1	71882	mmu
protein_codin	H1-M*	849	mmu
lncRNA	H0-M1	68802	mmu
lncRNA	H0-M1	64564	mmu
lncRNA	H0-M1	65423	mmu
lncRNA	H0-M1	82613	mmu
lncRNA	H0-M1	73924	mmu
lncRNA	H0-M1	95573	mmu
lncRNA	H0-M1	86926	mmu
lncRNA	H0-M1	84874	mmu
lncRNA	H0-M1	84429	mmu
lncRNA	H0-M1	83313	mmu
TEC	H0-M1	77236	mmu
lncRNA	H0-M1	81823	mmu
processed_pse	H0-M1	75994	mmu
transcribed_pr	H0-M1	84131	mmu
protein_codin	H0-M1	71083	mmu
TEC	H0-M1	79762	mmu
lncRNA	H0-M1	79371	mmu
unprocessed_p	H0-M1	79003	mmu
protein_codin	H0-M1	74432	mmu
processed_pse	H0-M1	74478	mmu
lncRNA	H0-M1	66266	mmu
lncRNA	H0-M1	78626	mmu
lncRNA	H0-M1	74694	mmu
TEC	H0-M1	81568	mmu
processed_pse	H0-M1	74333	mmu
processed_pse	H0-M1	78168	mmu
lncRNA	H0-M1	81644	mmu
processed_pse	H0-M1	78096	mmu
lncRNA	H0-M1	79876	mmu
processed_pse	H0-M1	79002	mmu
lncRNA	H0-M1	84349	mmu
processed_pse	H0-M1	88827	mmu
protein_codin	H0-M1	92397	mmu
lncRNA	H0-M1	92026	mmu
unprocessed_p	H0-M1	76885	mmu

processed_pse	H0-M1	76019	mmu
lncRNA	H0-M1	69969	mmu
transcribed_pr	H0-M1	92014	mmu
processed_pse	H0-M1	75920	mmu
transcribed_ur	H0-M1	83365	mmu
lncRNA	H0-M1	79118	mmu
lncRNA	H0-M1	92208	mmu
lncRNA	H0-M1	81460	mmu
lncRNA	H0-M1	81463	mmu
lncRNA	H0-M1	88461	mmu
lncRNA	H0-M1	78912	mmu
lncRNA	H0-M1	67757	mmu
lncRNA	H0-M1	79161	mmu
processed_pse	H0-M1	63905	mmu
lncRNA	H0-M1	78958	mmu
lncRNA	H0-M1	68306	mmu
processed_pse	H0-M1	63469	mmu
processed_pse	H0-M1	67900	mmu
lncRNA	H0-M1	77381	mmu
processed_pse	H0-M1	73699	mmu
lncRNA	H0-M1	78883	mmu
protein_codin	H0-M1	91256	mmu
lncRNA	H0-M1	67314	mmu
processed_pse	H0-M1	66838	mmu
transcribed_ur	H0-M1	92143	mmu
unprocessed_p	H0-M1	92157	mmu
transcribed_ur	H0-M1	92142	mmu
unprocessed_p	H0-M1	76068	mmu
protein_codin	H0-M1	71112	mmu
protein_codin	H0-M1	94250	mmu
transcribed_ur	H0-M1	94238	mmu
unprocessed_p	H0-M1	94251	mmu
transcribed_ur	H0-M1	95504	mmu
protein_codin	H0-M1	71621	mmu
protein_codin	H1-M1	15461	mmu
protein_codin	H1-M1	5768	mmu
miRNA	H0-M1	77467	mmu
snoRNA	H1-M1	9365	mmu
miRNA	H0-M1	77544	mmu
lncRNA	H0-M1	96506	mmu
lncRNA	H0-M1	88065	mmu
lncRNA	H0-M1	88062	mmu
lncRNA	H0-M1	93729	mmu
lncRNA	H0-M1	95137	mmu
lncRNA	H0-M1	97199	mmu
lncRNA	H0-M1	88009	mmu
lncRNA	H0-M1	78982	mmu
lncRNA	H0-M1	95585	mmu
lncRNA	H0-M1	81987	mmu
lncRNA	H0-M1	81754	mmu
lncRNA	H0-M1	81601	mmu
lncRNA	H0-M1	90321	mmu

lncRNA	H0-M1	84128	mmu
lncRNA	H0-M1	95062	mmu
lncRNA	H0-M1	90164	mmu
lncRNA	H0-M1	86848	mmu
lncRNA	H0-M1	97798	mmu
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lncRNA	H0-M1	91400	mmu
lncRNA	H0-M1	93862	mmu
lncRNA	H0-M1	92334	mmu
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lncRNA	H0-M1	96740	mmu
lncRNA	H0-M1	93134	mmu
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lncRNA	H0-M1	93131	mmu
lncRNA	H0-M1	95696	mmu
lncRNA	H0-M1	95770	mmu
lncRNA	H0-M1	95772	mmu
lncRNA	H0-M1	92235	mmu
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lncRNA	H0-M1	93118	mmu
lncRNA	H0-M1	93132	mmu
lncRNA	H0-M1	84067	mmu
lncRNA	H0-M1	84565	mmu
lncRNA	H0-M1	95747	mmu
lncRNA	H0-M1	92008	mmu
protein_codin	H0-M1	94585	mmu
miRNA	H0-M1	70168	mmu
snRNA	H0-M1	96363	mmu
rRNA	H0-M1	94311	mmu

snoRNA	H0-M1	74318	mmu
misc_RNA	H1-M1	2862	mmu
misc_RNA	H1-M1	11377	mmu
misc_RNA	H0-M1	96701	mmu
miRNA	H0-M1	78827	mmu
protein_codin	H1-M1	9452	mmu
protein_codin	H*-M*	192	mmu
protein_codin	H1-M1	12213	mmu
protein_codin	H1-M*	499	mmu
protein_codin	H*-M1	328	mmu
protein_codin	H1-M1	12487	mmu
protein_codin	H1-M1	17029	mmu
protein_codin	H1-M1	17355	mmu
protein_codin	H1-M1	13907	mmu
protein_codin	H1-M1	11639	mmu
protein_codin	H1-M1	16513	mmu
protein_codin	H1-M1	13876	mmu
protein_codin	H*-M1	865	mmu
protein_codin	H1-M1	1275	mmu
protein_codin	H1-M1	16956	mmu
protein_codin	H1-M1	6939	mmu
protein_codin	H1-M1	3205	mmu
protein_codin	H1-M1	8504	mmu
lncRNA	H0-M1	69786	mmu
protein_codin	H1-M1	15858	mmu
protein_codin	H1-M1	10427	mmu
protein_codin	H1-M1	14164	mmu
protein_codin	H1-M1	7543	mmu
protein_codin	H1-M1	6873	mmu
protein_codin	H*-M*	192	mmu
protein_codin	H1-M1	6467	mmu
protein_codin	H1-M1	5853	mmu
protein_codin	H1-M1	4522	mmu
protein_codin	H1-M1	4019	mmu
protein_codin	H1-M1	14914	mmu
protein_codin	H1-M1	14067	mmu
protein_codin	H0-M1	97015	mmu
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protein_codin	H0-M1	75096	mmu
protein_codin	H1-M1	6364	mmu
protein_codin	H1-M1	1436	mmu
protein_codin	H1-M1	1100	mmu
protein_codin	H1-M1	1523	mmu
protein_codin	H1-M1	3146	mmu
protein_codin	H1-M1	10051	mmu
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protein_codin	H1-M1	12400	mmu
protein_codin	H1-M1	16993	mmu
protein_codin	H1-M1	1871	mmu
protein_codin	H1-M1	15740	mmu
protein_codin	H1-M1	13647	mmu

protein_codin	H1-M*	499	mmu
protein_codin	H1-M1	10578	mmu
protein_codin	H1-M1	2952	mmu
protein_codin	H1-M1	7914	mmu
protein_codin	H1-M1	4841	mmu
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protein_codin	H1-M1	2439	mmu
protein_codin	H1-M1	10036	mmu
protein_codin	H*-M*	179	mmu
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protein_codin	H1-M1	10342	mmu
protein_codin	H1-M1	5202	mmu
protein_codin	H1-M*	727	mmu
protein_codin	H1-M1	9848	mmu
protein_codin	H*-M*	130	mmu
protein_codin	H1-M1	16068	mmu
protein_codin	H1-M1	13768	mmu
protein_codin	H1-M1	15317	mmu
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protein_codin	H1-M1	11341	mmu
protein_codin	H1-M1	18018	mmu
protein_codin	H1-M*	449	mmu
protein_codin	H1-M1	14774	mmu
protein_codin	H1-M1	17068	mmu
protein_codin	H1-M1	14088	mmu
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protein_codin	H1-M1	9992	mmu
protein_codin	H1-M1	16942	mmu
protein_codin	H1-M*	598	mmu
protein_codin	H1-M1	7564	mmu
protein_codin	H1-M1	7803	mmu
protein_codin	H1-M1	10575	mmu
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protein_codin	H1-M1	5267	mmu
protein_codin	H0-M1	72502	mmu
protein_codin	H1-M1	6626	mmu
protein_codin	H1-M1	3233	mmu
protein_codin	H1-M1	15405	mmu
protein_codin	H1-M1	11681	mmu
protein_codin	H1-M1	15388	mmu
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protein_codin	H1-M1	8989	mmu
protein_codin	H1-M1	12254	mmu

protein_codin	H1-M1	10184	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H1-M1	10156	mmu
protein_codin	H1-M1	9210	mmu
protein_codin	H1-M1	10056	mmu
protein_codin	H0-M1	97200	mmu
protein_codin	H1-M*	87	mmu
protein_codin	H1-M1	13617	mmu
protein_codin	H1-M1	11049	mmu
protein_codin	H1-M1	10415	mmu
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protein_codin	H1-M1	9315	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	17127	mmu
protein_codin	H1-M1	7574	mmu
protein_codin	H1-M1	12216	mmu
protein_codin	H1-M1	12945	mmu
protein_codin	H1-M1	16069	mmu
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protein_codin	H1-M*	353	mmu
protein_codin	H1-M1	6915	mmu
protein_codin	H1-M1	17140	mmu
protein_codin	H1-M1	12578	mmu
protein_codin	H1-M1	10058	mmu
protein_codin	H1-M1	15656	mmu
protein_codin	H1-M*	914	mmu
protein_codin	H1-M1	7263	mmu
protein_codin	H1-M*	944	mmu
protein_codin	H1-M1	6248	mmu
protein_codin	H1-M1	11193	mmu
protein_codin	H1-M1	15325	mmu

protein_codin	H1-M1	9631	mmu
protein_codin	H0-M1	88917	mmu
protein_codin	H1-M1	9407	mmu
protein_codin	H1-M1	15885	mmu
protein_codin	H1-M1	17667	mmu
protein_codin	H1-M1	2072	mmu
protein_codin	H1-M1	12957	mmu
protein_codin	H1-M1	12863	mmu
protein_codin	H0-M1	82332	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	4731	mmu
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protein_codin	H1-M1	9009	mmu
protein_codin	H1-M1	5688	mmu
protein_codin	H1-M1	8750	mmu
protein_codin	H1-M1	17280	mmu
protein_codin	H1-M1	8668	mmu
protein_codin	H1-M1	3570	mmu
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protein_codin	H1-M1	7823	mmu
protein_codin	H1-M1	6457	mmu
protein_codin	H1-M1	2912	mmu
protein_codin	H1-M1	12671	mmu
protein_codin	H1-M1	6164	mmu
protein_codin	H1-M1	11204	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	15881	mmu
protein_codin	H1-M1	9559	mmu
protein_codin	H1-M*	949	mmu
protein_codin	H1-M1	6583	mmu
protein_codin	H*-M1	802	mmu
protein_codin	H1-M1	16077	mmu
protein_codin	H1-M1	4724	mmu
protein_codin	H1-M1	8400	mmu
protein_codin	H*-M*	355	mmu
protein_codin	H1-M1	7606	mmu
protein_codin	H1-M1	1118	mmu
protein_codin	H1-M1	12517	mmu
protein_codin	H1-M1	2091	mmu
protein_codin	H1-M1	16061	mmu
protein_codin	H1-M1	15329	mmu
protein_codin	H1-M*	973	mmu
protein_codin	H1-M1	6312	mmu
protein_codin	H1-M1	14279	mmu
protein_codin	H1-M1	14291	mmu
protein_codin	H1-M1	17539	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	11676	mmu

protein_codin	H1-M1	4930	mmu
protein_codin	H0-M1	64913	mmu
protein_codin	H1-M1	13889	mmu
protein_codin	H0-M1	68522	mmu
protein_codin	H1-M1	12349	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H1-M1	13545	mmu
protein_codin	H0-M1	72110	mmu
protein_codin	H1-M1	7001	mmu
protein_codin	H1-M1	3553	mmu
protein_codin	H1-M1	11575	mmu
protein_codin	H1-M1	10086	mmu
protein_codin	H1-M1	11361	mmu
protein_codin	H1-M*	439	mmu
protein_codin	H1-M1	11686	mmu
protein_codin	H1-M1	14162	mmu
protein_codin	H1-M1	15694	mmu
protein_codin	H1-M1	17824	mmu
protein_codin	H1-M1	8337	mmu
protein_codin	H0-M1	78981	mmu
protein_codin	H1-M1	2997	mmu
protein_codin	H1-M1	16512	mmu
protein_codin	H1-M1	2428	mmu
protein_codin	H1-M1	15746	mmu
protein_codin	H1-M1	16922	mmu
protein_codin	H1-M1	13328	mmu
protein_codin	H1-M1	7504	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	6763	mmu
protein_codin	H1-M1	5660	mmu
protein_codin	H1-M1	18017	mmu
protein_codin	H1-M1	14306	mmu
protein_codin	H1-M1	12467	mmu
protein_codin	H1-M1	2162	mmu
protein_codin	H1-M1	7130	mmu
protein_codin	H1-M1	5532	mmu
protein_codin	H0-M1	87180	mmu
protein_codin	H0-M1	71608	mmu
protein_codin	H1-M1	16645	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M*	87	mmu
unprocessed_p	H0-M1	72119	mmu
protein_codin	H0-M1	91747	mmu
protein_codin	H1-M1	1728	mmu
protein_codin	H0-M1	63479	mmu
protein_codin	H1-M*	449	mmu
protein_codin	H1-M1	11574	mmu
protein_codin	H1-M1	8334	mmu
protein_codin	H1-M1	11978	mmu
protein_codin	H0-M1	88919	mmu
protein_codin	H1-M1	1164	mmu
protein_codin	H1-M1	1218	mmu

protein_codin	H1-M1	13734	mmu
protein_codin	H0-M1	81881	mmu
protein_codin	H0-M1	91761	mmu
protein_codin	H1-M*	740	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H1-M1	13861	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	15484	mmu
protein_codin	H0-M1	78969	mmu
protein_codin	H1-M1	15017	mmu
protein_codin	H0-M1	96668	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M1	18012	mmu
protein_codin	H0-M1	88923	mmu
protein_codin	H1-M1	12534	mmu
protein_codin	H1-M1	9053	mmu
protein_codin	H1-M1	6302	mmu
unprocessed_p	H0-M1	71625	mmu
protein_codin	H1-M1	10352	mmu
protein_codin	H1-M*	691	mmu
protein_codin	H1-M1	5771	mmu
transcribed_ur	H0-M1	95746	mmu
processed_pse	H0-M1	63483	mmu
protein_codin	H1-M1	9480	mmu
protein_codin	H1-M1	17508	mmu
protein_codin	H1-M1	6004	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H1-M*	59	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	87	mmu
transcribed_ur	H0-M1	89179	mmu
protein_codin	H0-M1	91752	mmu
protein_codin	H1-M*	353	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H*-M*	36	mmu
protein_codin	H0-M1	63463	mmu
protein_codin	H1-M*	914	mmu
protein_codin	H1-M*	439	mmu
protein_codin	H0-M1	79151	mmu
protein_codin	H0-M1	79059	mmu
protein_codin	H1-M*	109	mmu
protein_codin	H1-M1	16850	mmu
protein_codin	H1-M1	16128	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M1	1852	mmu
lncRNA	H0-M1	91362	mmu
protein_codin	H1-M1	6244	mmu
protein_codin	H*-M*	192	mmu
transcribed_ur	H0-M1	95769	mmu
lncRNA	H0-M1	92442	mmu
protein_codin	H0-M1	88922	mmu

protein_codin	H*-M1	754	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H1-M*	77	mmu
protein_codin	H0-M1	63455	mmu
unprocessed_p	H0-M1	72122	mmu
protein_codin	H1-M1	12461	mmu
protein_codin	H1-M*	438	mmu
processed_pse	H0-M1	77536	mmu
protein_codin	H1-M*	691	mmu
protein_codin	H1-M1	5528	mmu
snoRNA	H0-M1	96124	mmu
protein_codin	H1-M*	582	mmu
lncRNA	H0-M1	93916	mmu
protein_codin	H1-M1	17998	mmu
protein_codin	H0-M1	72090	mmu
protein_codin	H1-M*	104	mmu
protein_codin	H*-M*	192	mmu
protein_codin	H1-M*	439	mmu
protein_codin	H0-M1	80372	mmu
protein_codin	H0-M1	79154	mmu
protein_codin	H0-M1	79147	mmu
protein_codin	H0-M1	65398	mmu
protein_codin	H0-M1	75091	mmu
protein_codin	H1-M*	353	mmu
protein_codin	H0-M1	69661	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H*-M*	273	mmu
transcribed_ur	H0-M1	94240	mmu
protein_codin	H0-M1	94237	mmu
protein_codin	H1-M1	12039	mmu
protein_codin	H0-M1	88991	mmu
protein_codin	H0-M1	88932	mmu
protein_codin	H1-M*	109	mmu
lncRNA	H0-M1	96949	mmu
unprocessed_p	H0-M1	97052	mmu
processed_pse	H0-M1	89637	mmu
transcribed_pr	H0-M1	63268	mmu
lncRNA	H0-M1	66904	mmu
lncRNA	H0-M1	95736	mmu
processed_pse	H0-M1	63460	mmu
lncRNA	H0-M1	81419	mmu
unprocessed_p	H0-M1	72032	mmu
protein_codin	H1-M1	3966	mmu
protein_codin	H1-M*	740	mmu
unprocessed_p	H0-M1	89663	mmu
protein_codin	H1-M1	13067	mmu
protein_codin	H1-M*	449	mmu
unprocessed_p	H0-M1	87393	mmu
protein_codin	H0-M1	63466	mmu
protein_codin	H1-M*	210	mmu
lncRNA	H0-M1	94242	mmu

processed_pse	H0-M1	89613	mmu
protein_codin	H1-M*	210	mmu
protein_codin	H1-M*	144	mmu
protein_codin	H0-M1	71104	mmu
miRNA	H0-M1	96698	mmu
protein_codin	H0-M1	82726	mmu
protein_codin	H1-M*	748	mmu
unprocessed_p	H0-M1	72116	mmu
protein_codin	H0-M1	82513	mmu
unprocessed_p	H0-M1	72100	mmu
protein_codin	H1-M1	7961	mmu
lncRNA	H0-M1	80840	mmu
lncRNA	H0-M1	88526	mmu
lncRNA	H0-M1	88205	mmu
lncRNA	H0-M1	75455	mmu
lncRNA	H0-M1	92784	mmu
lncRNA	H0-M1	74863	mmu
protein_codin	H0-M1	84766	mmu
protein_codin	H1-M*	739	mmu
miRNA	H0-M1	77265	mmu
unprocessed_p	H0-M1	72113	mmu
miRNA	H0-M1	75418	mmu
protein_codin	H1-M1	14475	mmu
processed_pse	H0-M1	72095	mmu
lncRNA	H0-M1	84758	mmu
protein_codin	H1-M1	5772	mmu
unprocessed_p	H0-M1	63084	mmu
lncRNA	H0-M1	69893	mmu
TEC	H0-M1	93415	mmu
TEC	H0-M1	71400	mmu
TEC	H0-M1	83444	mmu
TEC	H0-M1	70588	mmu
TEC	H0-M1	72203	mmu
TEC	H0-M1	78135	mmu
TEC	H0-M1	64739	mmu
TEC	H0-M1	90955	mmu
TEC	H0-M1	74664	mmu
protein_codin	H1-M*	144	mmu
TEC	H0-M1	95015	mmu
protein_codin	H1-M*	144	mmu
processed_pse	H0-M1	80146	mmu
TEC	H0-M1	91889	mmu
protein_codin	H1-M1	17229	mmu
lncRNA	H0-M1	80808	mmu
TEC	H0-M1	96523	mmu
lncRNA	H0-M1	65170	mmu
lncRNA	H0-M1	69011	mmu
lncRNA	H0-M1	72212	mmu
TEC	H0-M1	71287	mmu
lncRNA	H0-M1	92519	mmu
protein_codin	H0-M1	82263	mmu
TEC	H0-M1	91071	mmu

TEC	H0-M1	90985	mmu
TEC	H0-M1	91074	mmu
unprocessed_p	H0-M1	68578	mmu
lncRNA	H0-M1	94745	mmu
TEC	H0-M1	66955	mmu
TEC	H0-M1	71084	mmu
lncRNA	H0-M1	92343	mmu
lncRNA	H0-M1	80297	mmu
TEC	H0-M1	71175	mmu
TEC	H0-M1	92462	mmu
TEC	H0-M1	92426	mmu
lncRNA	H0-M1	95562	mmu
TEC	H0-M1	79071	mmu
TEC	H0-M1	76265	mmu
TEC	H0-M1	71902	mmu
lncRNA	H0-M1	72421	mmu
protein_codin	H1-M1	12003	mmu
TEC	H0-M1	70945	mmu
TEC	H0-M1	80521	mmu
processed_pse	H0-M1	70054	mmu
processed_pse	H0-M1	75862	mmu
lncRNA	H0-M1	84823	mmu
TEC	H0-M1	68362	mmu
protein_codin	H0-M1	65852	mmu
TEC	H0-M1	74687	mmu
lncRNA	H0-M1	82504	mmu
TEC	H0-M1	77883	mmu
TEC	H0-M1	73767	mmu
unprocessed_p	H0-M1	73893	mmu
TEC	H0-M1	79762	mmu
TEC	H0-M1	80134	mmu
unprocessed_p	H0-M1	73855	mmu
lncRNA	H0-M1	84981	mmu
lncRNA	H0-M1	70291	mmu
transcribed_ur	H0-M1	94238	mmu
unprocessed_p	H0-M1	94251	mmu
protein_codin	H1-M1	15461	mmu
lncRNA	H0-M1	95113	mmu
lncRNA	H0-M1	93131	mmu
lncRNA	H0-M1	95770	mmu
lncRNA	H0-M1	93132	mmu
lncRNA	H0-M1	95747	mmu
lncRNA	H0-M1	92008	mmu
protein_codin	H0-M1	96915	mmu
miRNA	H0-M1	66984	mmu
snRNA	H0-M1	96363	mmu
misc_RNA	H0-M1	81422	mmu
protein_codin	H1-M0	44489	hsa
transcribed_ur	H1-M0	56523	hsa
transcribed_ur	H1-M0	32478	hsa
lncRNA	H1-M0	56528	hsa
lncRNA	H1-M0	32454	hsa

protein_codin	H1-M1	10058	hsa
protein_codin	H1-M0	44401	hsa
protein_codin	H1-M0	38228	hsa
protein_codin	H1-M1	8337	hsa
lncRNA	H1-M0	58942	hsa
protein_codin	H1-M0	35811	hsa
protein_codin	H*-M*	358	hsa
protein_codin	H*-M*	358	hsa
lncRNA	H1-M0	49446	hsa
lncRNA	H1-M0	60924	hsa
protein_codin	H1-M1	8445	hsa
protein_codin	H1-M0	40621	hsa
protein_codin	H1-M1	3146	hsa
lncRNA	H1-M0	41280	hsa
protein_codin	H1-M0	34901	hsa
protein_codin	H1-M0	36290	hsa
protein_codin	H1-M0	54672	hsa
protein_codin	H1-M0	42266	hsa
protein_codin	H1-M1	5056	hsa
lncRNA	H1-M0	23793	hsa
protein_codin	H*-M*	12	hsa
protein_codin	H1-M*	353	hsa
protein_codin	H1-M1	16194	hsa
protein_codin	H1-M1	7001	hsa
lncRNA	H1-M0	38030	hsa
lncRNA	H1-M0	56490	hsa
protein_codin	H1-M1	15325	hsa
protein_codin	H*-M*	12	hsa
protein_codin	H1-M1	10056	hsa
protein_codin	H1-M1	5096	hsa
protein_codin	H1-M0	21737	hsa
protein_codin	H1-M1	14067	hsa
protein_codin	H1-M1	12578	hsa
protein_codin	H1-M1	13380	hsa
protein_codin	H1-M0	55166	hsa
protein_codin	H1-M1	15261	hsa
lncRNA	H1-M0	60569	hsa
protein_codin	H*-M1	328	hsa
lncRNA	H1-M0	61522	hsa
protein_codin	H1-M1	16061	hsa
protein_codin	H1-M1	5233	hsa
transcribed_ur	H1-M0	61523	hsa
protein_codin	H1-M1	3553	hsa
protein_codin	H1-M0	27445	hsa
protein_codin	H1-M*	691	hsa
protein_codin	H1-M0	55199	hsa
protein_codin	H1-M1	17229	hsa
protein_codin	H1-M1	6366	hsa
lncRNA	H1-M0	55198	hsa
protein_codin	H1-M1	3023	hsa
protein_codin	H1-M*	499	hsa
protein_codin	H1-M1	5188	hsa

protein_codin	H1-M1	3382	hsa
protein_codin	H1-M*	87	hsa
protein_codin	H1-M0	55149	hsa
protein_codin	H1-M1	17070	hsa
processed_pse	H1-M0	42388	hsa
protein_codin	H1-M1	18084	hsa
lncRNA	H1-M0	27120	hsa
transcribed_pr	H1-M0	60341	hsa
lncRNA	H1-M0	47162	hsa
lncRNA	H1-M0	53655	hsa
protein_codin	H1-M1	6367	hsa
unprocessed_p	H1-M0	53296	hsa
protein_codin	H1-M*	944	hsa
protein_codin	H1-M1	3828	hsa
protein_codin	H1-M1	6106	hsa
transcribed_ur	H1-M0	37770	hsa
processed_pse	H1-M0	51813	hsa
protein_codin	H1-M*	949	hsa
protein_codin	H*-M*	89	hsa
protein_codin	H1-M1	6164	hsa
lncRNA	H1-M0	37775	hsa
lncRNA	H1-M0	42190	hsa
protein_codin	H*-M*	12	hsa
TEC	H1-M0	27861	hsa
snoRNA	H1-M0	30405	hsa
lncRNA	H1-M0	38726	hsa
lncRNA	H1-M0	33841	hsa
protein_codin	H1-M1	11049	hsa
protein_codin	H1-M*	746	hsa
protein_codin	H1-M1	7453	hsa
lncRNA	H1-M0	61489	hsa
protein_codin	H1-M1	13022	hsa
snoRNA	H1-M0	54803	hsa
protein_codin	H1-M1	16450	hsa
protein_codin	H1-M1	5267	hsa
snRNA	H1-M0	60874	hsa
protein_codin	H1-M1	7501	hsa
lncRNA	H1-M0	38163	hsa
protein_codin	H1-M1	13094	hsa
lncRNA	H1-M0	56949	hsa
protein_codin	H1-M1	4458	hsa
protein_codin	H1-M0	46339	hsa
protein_codin	H1-M1	1436	hsa
protein_codin	H1-M1	1587	hsa
lncRNA	H1-M0	57461	hsa
lncRNA	H1-M0	38913	hsa
protein_codin	H1-M0	39967	hsa
protein_codin	H1-M1	6102	hsa
lncRNA	H1-M0	21527	hsa
protein_codin	H1-M1	13952	hsa
protein_codin	H1-M*	727	hsa
protein_codin	H1-M1	6583	hsa

protein_codin	H1-M1	17629	hsa
lncRNA	H1-M0	25481	hsa
protein_codin	H*-M*	130	hsa
transcribed_ur	H1-M0	52085	hsa
lncRNA	H1-M0	40851	hsa
unprocessed_p	H1-M0	47018	hsa
lncRNA	H1-M0	47144	hsa
protein_codin	H1-M1	17068	hsa
protein_codin	H1-M1	3686	hsa
protein_codin	H1-M1	6939	hsa
protein_codin	H1-M1	2157	hsa
protein_codin	H1-M0	41805	hsa
protein_codin	H1-M1	16376	hsa
protein_codin	H1-M0	36723	hsa
unprocessed_p	H1-M0	34895	hsa
lncRNA	H1-M0	56283	hsa
lncRNA	H1-M0	51932	hsa
protein_codin	H1-M1	4183	hsa
protein_codin	H1-M1	14914	hsa
unprocessed_p	H1-M0	47023	hsa
protein_codin	H1-M1	9029	hsa
transcribed_ur	H1-M0	61358	hsa
protein_codin	H1-M1	8304	hsa
lncRNA	H1-M0	48667	hsa
processed_pse	H1-M0	52084	hsa
protein_codin	H1-M1	13124	hsa
protein_codin	H1-M1	11569	hsa
lncRNA	H1-M0	52882	hsa
transcribed_ur	H1-M0	57839	hsa
protein_codin	H1-M1	16068	hsa
protein_codin	H1-M1	7823	hsa
protein_codin	H1-M1	4314	hsa
lncRNA	H1-M0	38018	hsa
protein_codin	H1-M0	50629	hsa
lncRNA	H1-M0	52819	hsa
protein_codin	H1-M1	15670	hsa
protein_codin	H1-M1	4125	hsa
protein_codin	H1-M1	16128	hsa
lncRNA	H1-M0	61359	hsa
protein_codin	H1-M0	48340	hsa
protein_codin	H1-M1	15388	hsa
lncRNA	H1-M0	58647	hsa
protein_codin	H1-M1	14164	hsa
protein_codin	H1-M1	18143	hsa
lncRNA	H1-M0	48833	hsa
protein_codin	H1-M1	5029	hsa
protein_codin	H1-M1	12035	hsa
lncRNA	H1-M0	50430	hsa
protein_codin	H1-M1	6626	hsa
protein_codin	H1-M1	6161	hsa
protein_codin	H1-M1	16928	hsa
processed_pse	H1-M0	21634	hsa

lncRNA	H1-M0	20133	hsa
protein_codin	H1-M0	45907	hsa
lncRNA	H1-M0	40002	hsa
protein_codin	H1-M1	11361	hsa
processed_pse	H1-M0	55207	hsa
protein_codin	H1-M1	3458	hsa
processed_pse	H1-M0	49547	hsa
lncRNA	H1-M0	57840	hsa
transcribed_pr	H1-M0	27686	hsa
protein_codin	H1-M0	53004	hsa
protein_codin	H1-M0	46269	hsa
protein_codin	H1-M1	13067	hsa
protein_codin	H1-M1	5226	hsa
protein_codin	H1-M1	11726	hsa
protein_codin	H1-M1	7295	hsa
protein_codin	H1-M1	10140	hsa
misc_RNA	H1-M0	52863	hsa
lncRNA	H1-M0	37791	hsa
protein_codin	H1-M1	14162	hsa
protein_codin	H1-M0	27446	hsa
protein_codin	H1-M1	3910	hsa
protein_codin	H1-M*	999	hsa
protein_codin	H1-M1	9155	hsa
lncRNA	H1-M0	47469	hsa
lncRNA	H1-M0	59069	hsa
protein_codin	H1-M1	11185	hsa
protein_codin	H1-M1	16574	hsa
protein_codin	H1-M1	12400	hsa
protein_codin	H1-M0	42253	hsa
lncRNA	H1-M0	41149	hsa
lncRNA	H1-M0	26292	hsa
protein_codin	H1-M1	4724	hsa
protein_codin	H1-M0	59558	hsa
protein_codin	H1-M1	11292	hsa
protein_codin	H1-M1	13929	hsa
lncRNA	H1-M0	50168	hsa
protein_codin	H1-M1	12957	hsa
lncRNA	H1-M0	34602	hsa
protein_codin	H1-M1	2701	hsa
protein_codin	H1-M1	9578	hsa
protein_codin	H1-M1	16162	hsa
protein_codin	H1-M1	9195	hsa
misc_RNA	H1-M0	55148	hsa
protein_codin	H1-M1	12874	hsa
transcribed_ur	H1-M0	60462	hsa
processed_pse	H1-M0	20338	hsa
protein_codin	H1-M1	9661	hsa
protein_codin	H1-M1	14017	hsa
protein_codin	H1-M1	14090	hsa
lncRNA	H1-M0	46508	hsa
unprocessed_p	H1-M0	22896	hsa
protein_codin	H1-M1	6457	hsa

lncRNA	H1-M0	42882	hsa
protein_codin	H1-M1	7803	hsa
TR_J_gene	H1-M0	52421	hsa
lncRNA	H1-M0	39152	hsa
protein_codin	H1-M1	17810	hsa
lncRNA	H1-M0	61363	hsa
protein_codin	H1-M1	10352	hsa
protein_codin	H1-M1	7795	hsa
lncRNA	H1-M0	52109	hsa
lncRNA	H1-M0	30246	hsa
protein_codin	H1-M*	948	hsa
IG_C_pseudoge	H1-M0	47028	hsa
transcribed_ur	H1-M0	59070	hsa
protein_codin	H1-M*	109	hsa
protein_codin	H1-M1	16048	hsa
protein_codin	H1-M1	6133	hsa
protein_codin	H1-M1	13586	hsa
processed_pse	H1-M0	51968	hsa
protein_codin	H1-M0	45747	hsa
protein_codin	H1-M1	3963	hsa
protein_codin	H1-M1	18161	hsa
processed_pse	H1-M0	26259	hsa
protein_codin	H1-M1	9176	hsa
lncRNA	H1-M0	60463	hsa
lncRNA	H1-M0	28928	hsa
lncRNA	H1-M0	47607	hsa
protein_codin	H1-M1	8945	hsa
lncRNA	H1-M0	52813	hsa
processed_pse	H1-M0	55157	hsa
protein_codin	H1-M1	2909	hsa
lncRNA	H1-M0	25305	hsa
lncRNA	H1-M0	53302	hsa
lncRNA	H1-M0	23211	hsa
lncRNA	H1-M0	20261	hsa
Mt_tRNA	H1-M0	18192	hsa
protein_codin	H1-M1	16104	hsa
transcribed_ur	H1-M0	53304	hsa
lncRNA	H1-M0	60270	hsa
protein_codin	H1-M*	402	hsa
protein_codin	H1-M1	14872	hsa
lncRNA	H1-M0	26981	hsa
protein_codin	H1-M1	10292	hsa
protein_codin	H1-M1	13734	hsa
protein_codin	H1-M1	16773	hsa
protein_codin	H1-M1	6991	hsa
lncRNA	H1-M0	35825	hsa
protein_codin	H1-M0	59382	hsa
unprocessed_p	H1-M0	49091	hsa
protein_codin	H1-M1	12385	hsa
protein_codin	H1-M1	9992	hsa
protein_codin	H1-M1	17284	hsa
protein_codin	H1-M1	14239	hsa

lncRNA	H1-M0	57635	hsa
lncRNA	H1-M0	32767	hsa
lncRNA	H1-M0	46633	hsa
lncRNA	H1-M0	19367	hsa
protein_codin	H1-M1	9314	hsa
lncRNA	H1-M0	46600	hsa
lncRNA	H1-M0	61630	hsa
protein_codin	H1-M0	40129	hsa
protein_codin	H*-M1	983	hsa
rRNA	H1-M0	56295	hsa
protein_codin	H1-M0	50744	hsa
protein_codin	H1-M1	6542	hsa
rRNA	H1-M*	198	hsa
lncRNA	H1-M0	52083	hsa
protein_codin	H1-M1	16549	hsa
protein_codin	H1-M1	14933	hsa
lncRNA	H1-M0	48825	hsa
protein_codin	H1-M1	14205	hsa
lncRNA	H1-M0	61015	hsa
lncRNA	H1-M0	60724	hsa
lncRNA	H1-M0	47720	hsa
protein_codin	H1-M1	13345	hsa
lncRNA	H1-M0	54493	hsa
protein_codin	H1-M1	7961	hsa
protein_codin	H1-M1	12054	hsa
lncRNA	H1-M0	48993	hsa
protein_codin	H*-M*	36	hsa
protein_codin	H*-M*	36	hsa
lncRNA	H1-M0	60401	hsa
protein_codin	H1-M0	46404	hsa
lncRNA	H1-M0	33221	hsa
protein_codin	H1-M*	761	hsa
TEC	H1-M0	35559	hsa
transcribed_ur	H1-M0	54491	hsa
protein_codin	H1-M1	12380	hsa
lncRNA	H1-M0	37829	hsa
protein_codin	H1-M1	10794	hsa
protein_codin	H*-M1	983	hsa
protein_codin	H1-M1	14227	hsa
lncRNA	H1-M0	39536	hsa
protein_codin	H1-M1	12216	hsa
lncRNA	H1-M0	55014	hsa
lncRNA	H1-M0	50096	hsa
processed_pse	H1-M0	52076	hsa
protein_codin	H1-M1	4551	hsa
protein_codin	H1-M1	10351	hsa
protein_codin	H1-M1	6062	hsa
miRNA	H1-M1	1128	hsa
unprocessed_p	H1-M0	54901	hsa
protein_codin	H1-M1	10731	hsa
lncRNA	H1-M0	31140	hsa
protein_codin	H1-M1	1691	hsa

lncRNA	H1-M0	51519	hsa
protein_codin	H1-M1	10767	hsa
lncRNA	H1-M0	61019	hsa
protein_codin	H1-M1	13829	hsa
lncRNA	H1-M0	30245	hsa
lncRNA	H1-M0	19506	hsa
protein_codin	H1-M0	30313	hsa
protein_codin	H1-M1	9164	hsa
protein_codin	H1-M1	10427	hsa
protein_codin	H1-M1	15851	hsa
protein_codin	H1-M1	13328	hsa
processed_pse	H1-M0	47027	hsa
protein_codin	H1-M1	15881	hsa
protein_codin	H*-M1	754	hsa
protein_codin	H1-M1	16614	hsa
protein_codin	H1-M0	56834	hsa
protein_codin	H*-M1	754	hsa
protein_codin	H1-M1	4270	hsa
transcribed_ur	H1-M0	60400	hsa
rRNA_pseudog	H1-M0	31792	hsa
protein_codin	H1-M*	144	hsa
protein_codin	H1-M1	1105	hsa
rRNA	H1-M*	963	hsa
protein_codin	H1-M1	11459	hsa
protein_codin	H1-M*	1006	hsa
lncRNA	H1-M0	43474	hsa
protein_codin	H1-M1	7721	hsa
protein_codin	H1-M1	17703	hsa
protein_codin	H*-M*	36	hsa
miRNA	H1-M0	40353	hsa
protein_codin	H1-M1	14350	hsa
protein_codin	H1-M0	54855	hsa
lncRNA	H1-M0	43181	hsa
lncRNA	H1-M0	37070	hsa
protein_codin	H1-M1	10171	hsa
protein_codin	H1-M1	2072	hsa
protein_codin	H1-M1	1102	hsa
lncRNA	H1-M0	58794	hsa
lncRNA	H1-M0	54401	hsa
protein_codin	H1-M1	8536	hsa
processed_pse	H1-M0	37668	hsa
rRNA	H1-M0	56296	hsa
lncRNA	H1-M0	53485	hsa
protein_codin	H1-M1	10603	hsa
rRNA	H1-M*	966	hsa
lncRNA	H1-M0	60072	hsa
miRNA	H1-M1	4840	hsa
protein_codin	H1-M1	14471	hsa
protein_codin	H1-M1	5771	hsa
protein_codin	H1-M1	11139	hsa
protein_codin	H1-M0	42599	hsa
protein_codin	H1-M1	14088	hsa

lncRNA	H1-M0	43211	hsa
protein_codin	H1-M0	57878	hsa
protein_codin	H1-M1	2083	hsa
unprocessed_p	H1-M0	43283	hsa
unprocessed_p	H1-M0	33188	hsa
protein_codin	H1-M1	12281	hsa
transcribed_ur	H1-M0	61362	hsa
rRNA	H1-M0	56299	hsa
snRNA	H*-M*	54	hsa
snoRNA	H1-M1	5707	hsa
snoRNA	H1-M0	34161	hsa
lncRNA	H1-M0	35023	hsa
protein_codin	H1-M1	17127	hsa
protein_codin	H1-M1	7949	hsa
lncRNA	H1-M0	28461	hsa
lncRNA	H1-M0	28464	hsa
lncRNA	H1-M0	56976	hsa
protein_codin	H1-M0	22337	hsa
protein_codin	H1-M1	14913	hsa
protein_codin	H1-M0	49822	hsa
protein_codin	H1-M1	7492	hsa
lncRNA	H1-M0	54561	hsa
protein_codin	H1-M1	2912	hsa
rRNA	H1-M*	967	hsa
protein_codin	H1-M0	33133	hsa
lncRNA	H1-M0	23978	hsa
protein_codin	H1-M0	55129	hsa
protein_codin	H1-M1	12945	hsa
lncRNA	H1-M0	20280	hsa
protein_codin	H1-M1	9749	hsa
protein_codin	H1-M1	10012	hsa
lncRNA	H1-M0	60036	hsa
lncRNA	H1-M0	20350	hsa
lncRNA	H1-M0	31620	hsa
protein_codin	H*-M1	452	hsa
protein_codin	H1-M1	1654	hsa
protein_codin	H*-M*	130	hsa
miRNA	H1-M0	30230	hsa
snRNA	H*-M*	35	hsa
protein_codin	H1-M1	4375	hsa
protein_codin	H*-M1	953	hsa
protein_codin	H1-M1	1631	hsa
snoRNA	H1-M0	30860	hsa
protein_codin	H1-M1	12293	hsa
snRNA	H1-M0	55944	hsa
protein_codin	H1-M*	931	hsa
rRNA	H*-M1	964	hsa
protein_codin	H1-M1	11098	hsa
protein_codin	H*-M1	452	hsa
protein_codin	H1-M1	12397	hsa
protein_codin	H1-M1	10277	hsa
processed_pse	H1-M0	45112	hsa

rRNA	H1-M1	15812	hsa
lncRNA	H1-M0	28463	hsa
rRNA	H*-M1	964	hsa
unprocessed_p	H1-M0	37281	hsa
lncRNA	H1-M0	28457	hsa
protein_codin	H1-M1	1660	hsa
snRNA	H1-M0	24802	hsa
protein_codin	H1-M1	15740	hsa
protein_codin	H*-M*	36	hsa
lncRNA	H1-M0	59527	hsa
protein_codin	H1-M1	3205	hsa
lncRNA	H1-M0	56372	hsa
protein_codin	H1-M1	13709	hsa
protein_codin	H1-M1	6680	hsa
rRNA	H1-M0	56298	hsa
protein_codin	H1-M1	2176	hsa
lncRNA	H1-M0	47536	hsa
lncRNA	H1-M0	47324	hsa
protein_codin	H1-M1	7078	hsa
snoRNA	H1-M0	41218	hsa
protein_codin	H1-M0	22387	hsa
protein_codin	H1-M1	10199	hsa
protein_codin	H1-M1	14119	hsa
protein_codin	H1-M0	50527	hsa
rRNA	H1-M1	15816	hsa
lncRNA	H1-M0	41586	hsa
protein_codin	H*-M*	74	hsa
protein_codin	H1-M1	3083	hsa
protein_codin	H1-M1	5194	hsa
protein_codin	H1-M1	12003	hsa
rRNA_pseudog	H1-M0	38392	hsa
protein_codin	H1-M1	7511	hsa
processed_pse	H1-M0	39718	hsa
processed_pse	H1-M0	55151	hsa
protein_codin	H1-M0	47252	hsa
protein_codin	H1-M0	51946	hsa
snRNA	H1-M0	50441	hsa
protein_codin	H1-M1	5688	hsa
protein_codin	H1-M1	4639	hsa
lncRNA	H1-M0	35853	hsa
protein_codin	H1-M0	51324	hsa
snRNA	H*-M*	35	hsa
protein_codin	H1-M1	2344	hsa
protein_codin	H1-M1	1359	hsa
protein_codin	H1-M*	582	hsa
protein_codin	H1-M1	14291	hsa
protein_codin	H1-M0	34353	hsa
protein_codin	H1-M1	10326	hsa
protein_codin	H1-M1	4266	hsa
rRNA	H1-M*	965	hsa
protein_codin	H1-M1	16850	hsa
protein_codin	H1-M1	13191	hsa

protein_codin	H1-M0	27217	hsa
rRNA	H1-M1	15815	hsa
protein_codin	H*-M*	451	hsa
protein_codin	H1-M1	10797	hsa
snRNA	H1-M0	55946	hsa
protein_codin	H1-M1	13792	hsa
lncRNA	H1-M0	38583	hsa
protein_codin	H1-M1	12781	hsa
snRNA	H1-M0	58059	hsa
protein_codin	H*-M*	192	hsa
protein_codin	H1-M1	5492	hsa
protein_codin	H1-M1	4392	hsa
snRNA	H1-M0	18234	hsa
lncRNA	H1-M0	53481	hsa
snRNA	H1-M0	58864	hsa
protein_codin	H1-M1	5337	hsa
lncRNA	H1-M0	46169	hsa
protein_codin	H1-M1	13061	hsa
protein_codin	H1-M1	11464	hsa
rRNA	H1-M0	56294	hsa
snRNA	H1-M0	55945	hsa
protein_codin	H1-M0	54664	hsa
protein_codin	H1-M1	11193	hsa
protein_codin	H1-M1	2414	hsa
protein_codin	H1-M0	26465	hsa
lncRNA	H1-M0	51560	hsa
unprocessed_p	H1-M0	54820	hsa
protein_codin	H1-M1	17811	hsa
lncRNA	H1-M0	55447	hsa
processed_pse	H1-M0	22019	hsa
protein_codin	H1-M1	15746	hsa
snRNA	H*-M*	35	hsa
lncRNA	H1-M0	57260	hsa
protein_codin	H1-M1	9668	hsa
protein_codin	H1-M1	5170	hsa
protein_codin	H*-M1	953	hsa
protein_codin	H1-M1	9866	hsa
snRNA	H1-M0	24825	hsa
protein_codin	H1-M1	2247	hsa
lncRNA	H1-M0	55121	hsa
protein_codin	H1-M1	3672	hsa
protein_codin	H1-M1	3318	hsa
lncRNA	H1-M0	56662	hsa
protein_codin	H1-M0	40853	hsa
protein_codin	H1-M1	12725	hsa
lncRNA	H1-M0	31512	hsa
protein_codin	H1-M1	15832	hsa
protein_codin	H1-M0	27545	hsa
protein_codin	H1-M1	4147	hsa
protein_codin	H1-M1	17355	hsa
protein_codin	H1-M1	13881	hsa
processed_pse	H1-M0	27699	hsa

lncRNA	H1-M0	54643	hsa
protein_codin	H1-M1	2979	hsa
protein_codin	H1-M1	14029	hsa
snRNA	H1-M0	58048	hsa
protein_codin	H1-M0	54852	hsa
protein_codin	H1-M0	53743	hsa
TEC	H1-M0	54564	hsa
unprocessed_p	H1-M0	25025	hsa
protein_codin	H1-M1	4926	hsa
protein_codin	H1-M1	5491	hsa
lncRNA	H1-M0	39116	hsa
protein_codin	H1-M1	8226	hsa
lncRNA	H1-M0	43278	hsa
protein_codin	H1-M1	9901	hsa
protein_codin	H1-M1	13890	hsa
protein_codin	H1-M1	1303	hsa
snoRNA	H1-M0	28841	hsa
lncRNA	H1-M0	52376	hsa
protein_codin	H1-M1	2994	hsa
protein_codin	H1-M1	2196	hsa
lncRNA	H1-M0	60123	hsa
protein_codin	H1-M1	12534	hsa
misc_RNA	H1-M0	43827	hsa
protein_codin	H1-M1	10158	hsa
snoRNA	H1-M0	41216	hsa
snRNA	H1-M0	51859	hsa
protein_codin	H1-M1	1728	hsa
processed_pse	H1-M0	42195	hsa
protein_codin	H1-M1	14261	hsa
snRNA	H1-M1	9249	hsa
protein_codin	H1-M1	8198	hsa
lncRNA	H1-M0	28454	hsa
rRNA	H1-M1	15813	hsa
protein_codin	H1-M1	10695	hsa
snRNA	H1-M1	15435	hsa
protein_codin	H1-M*	748	hsa
unprocessed_p	H1-M0	53295	hsa
TEC	H1-M0	27927	hsa
lncRNA	H1-M0	19695	hsa
protein_codin	H1-M1	11820	hsa
protein_codin	H1-M1	15476	hsa
protein_codin	H1-M1	10443	hsa
protein_codin	H1-M1	3459	hsa
protein_codin	H1-M0	59565	hsa
protein_codin	H1-M0	35274	hsa
transcribed_ur	H1-M0	52197	hsa
protein_codin	H*-M1	741	hsa
lncRNA	H1-M0	22723	hsa
protein_codin	H1-M1	3233	hsa
protein_codin	H1-M1	14094	hsa
protein_codin	H1-M1	13768	hsa
protein_codin	H1-M*	744	hsa

protein_codin	H1-M0	30521	hsa
protein_codin	H1-M1	16119	hsa
lncRNA	H1-M0	47208	hsa
protein_codin	H1-M1	3884	hsa
snRNA	H*-M*	35	hsa
miRNA	H1-M0	37280	hsa
transcribed_ur	H1-M0	52231	hsa
protein_codin	H1-M1	11902	hsa
protein_codin	H1-M1	6132	hsa
protein_codin	H*-M1	1013	hsa
protein_codin	H1-M0	48158	hsa
lncRNA	H1-M0	41340	hsa
lncRNA	H1-M0	34615	hsa
lncRNA	H1-M0	33202	hsa
protein_codin	H1-M1	11854	hsa
lncRNA	H1-M0	52235	hsa
snRNA	H1-M0	51496	hsa
protein_codin	H1-M1	10684	hsa
protein_codin	H1-M1	4449	hsa
protein_codin	H1-M1	1275	hsa
protein_codin	H1-M*	216	hsa
lncRNA	H1-M0	37651	hsa
protein_codin	H1-M0	55290	hsa
protein_codin	H1-M*	932	hsa
protein_codin	H1-M*	593	hsa
protein_codin	H1-M1	12938	hsa
lncRNA	H1-M0	58653	hsa
lncRNA	H1-M0	61138	hsa
protein_codin	H1-M1	15833	hsa
protein_codin	H1-M1	3708	hsa
protein_codin	H1-M1	14081	hsa
protein_codin	H1-M1	11341	hsa
lncRNA	H1-M0	52826	hsa
protein_codin	H1-M1	18159	hsa
lncRNA	H1-M0	47570	hsa
protein_codin	H1-M0	60642	hsa
snRNA	H1-M0	61424	hsa
protein_codin	H1-M1	17376	hsa
protein_codin	H1-M0	60641	hsa
lncRNA	H1-M0	35302	hsa
snRNA	H*-M*	35	hsa
lncRNA	H1-M0	56933	hsa
protein_codin	H1-M0	49643	hsa
protein_codin	H1-M1	17741	hsa
lncRNA	H1-M0	57261	hsa
snRNA	H1-M0	58123	hsa
processed_pse	H1-M0	52077	hsa
lncRNA	H1-M0	39117	hsa
protein_codin	H1-M0	39977	hsa
protein_codin	H1-M1	11204	hsa
protein_codin	H1-M1	4297	hsa
protein_codin	H1-M1	8156	hsa

protein_codin	H1-M0	29607	hsa
lncRNA	H1-M0	61084	hsa
protein_codin	H1-M1	6033	hsa
protein_codin	H1-M0	56613	hsa
protein_codin	H1-M1	5117	hsa
protein_codin	H1-M1	10160	hsa
protein_codin	H1-M1	3010	hsa
protein_codin	H1-M*	165	hsa
protein_codin	H1-M1	5939	hsa
protein_codin	H1-M1	11629	hsa
lncRNA	H1-M0	46785	hsa
lncRNA	H1-M0	53395	hsa
protein_codin	H1-M1	5856	hsa
lncRNA	H1-M0	50694	hsa
lncRNA	H1-M0	41164	hsa
protein_codin	H1-M1	5851	hsa
protein_codin	H1-M1	15144	hsa
protein_codin	H1-M1	8362	hsa
protein_codin	H1-M0	59752	hsa
protein_codin	H1-M0	50590	hsa
protein_codin	H1-M0	36873	hsa
unprocessed_p	H1-M0	45326	hsa
snRNA	H*-M*	35	hsa
protein_codin	H1-M1	6452	hsa
processed_pse	H1-M0	37843	hsa
lncRNA	H1-M0	53695	hsa
protein_codin	H1-M0	25048	hsa
protein_codin	H1-M1	14449	hsa
lncRNA	H1-M0	45421	hsa
protein_codin	H1-M1	8812	hsa
protein_codin	H1-M0	45278	hsa
protein_codin	H1-M1	8833	hsa
protein_codin	H1-M1	9037	hsa
lncRNA	H1-M0	21366	hsa
lncRNA	H1-M0	42718	hsa
protein_codin	H1-M1	10073	hsa
unprocessed_p	H1-M0	53293	hsa
protein_codin	H1-M1	15405	hsa
lncRNA	H1-M0	32217	hsa
protein_codin	H1-M0	47640	hsa
protein_codin	H1-M1	15170	hsa
protein_codin	H1-M1	7914	hsa
unprocessed_p	H1-M0	50688	hsa
lncRNA	H1-M0	60993	hsa
TEC	H1-M0	46401	hsa
protein_codin	H1-M1	17459	hsa
lncRNA	H1-M0	61064	hsa
processed_pse	H1-M0	46896	hsa
lncRNA	H1-M0	35147	hsa
protein_codin	H1-M1	16696	hsa
lncRNA	H1-M0	52920	hsa
protein_codin	H1-M1	9906	hsa

lncRNA	H1-M0	47325	hsa
lncRNA	H1-M0	23950	hsa
lncRNA	H1-M0	41924	hsa
protein_codin	H1-M1	6551	hsa
transcribed_ur	H1-M0	30549	hsa
protein_codin	H1-M1	14331	hsa
unprocessed_p	H1-M0	41197	hsa
lncRNA	H1-M0	49513	hsa
protein_codin	H1-M0	42357	hsa
protein_codin	H1-M1	12219	hsa
protein_codin	H*-M1	675	hsa
protein_codin	H1-M0	54685	hsa
protein_codin	H1-M1	11980	hsa
protein_codin	H1-M1	12822	hsa
lncRNA	H1-M0	30145	hsa
protein_codin	H1-M*	125	hsa
lncRNA	H1-M0	22916	hsa
protein_codin	H1-M0	60365	hsa
processed_pse	H1-M0	36283	hsa
protein_codin	H1-M0	53305	hsa
protein_codin	H1-M0	42481	hsa
protein_codin	H1-M0	22375	hsa
protein_codin	H*-M1	834	hsa
protein_codin	H1-M1	5907	hsa
protein_codin	H1-M1	17935	hsa
unprocessed_p	H1-M0	46341	hsa
lncRNA	H1-M0	23752	hsa
protein_codin	H1-M1	9351	hsa
protein_codin	H1-M1	7176	hsa
protein_codin	H1-M1	2610	hsa
protein_codin	H1-M1	12908	hsa
lncRNA	H1-M0	57622	hsa
protein_codin	H1-M1	8011	hsa
TEC	H1-M0	53322	hsa
lncRNA	H1-M0	37656	hsa
protein_codin	H1-M1	4222	hsa
transcribed_pr	H1-M0	53634	hsa
protein_codin	H1-M1	15327	hsa
protein_codin	H1-M1	6319	hsa
protein_codin	H1-M1	10491	hsa
miRNA	H1-M0	39256	hsa
lncRNA	H1-M0	60303	hsa
protein_codin	H1-M1	14432	hsa
protein_codin	H1-M1	5615	hsa
protein_codin	H1-M0	42350	hsa
lncRNA	H1-M0	52267	hsa
protein_codin	H1-M1	3302	hsa
protein_codin	H1-M1	1429	hsa
lncRNA	H1-M0	52046	hsa
lncRNA	H1-M0	49487	hsa
protein_codin	H1-M1	14325	hsa
protein_codin	H1-M1	1264	hsa

protein_codin	H1-M0	35824	hsa
unprocessed_p	H1-M0	49051	hsa
protein_codin	H1-M1	15652	hsa
protein_codin	H1-M1	14406	hsa
protein_codin	H1-M1	14145	hsa
protein_codin	H1-M1	2877	hsa
protein_codin	H1-M1	11415	hsa
lncRNA	H1-M0	45658	hsa
lncRNA	H1-M0	29187	hsa
protein_codin	H1-M1	5558	hsa
processed_pse	H1-M0	19204	hsa
lncRNA	H1-M0	52230	hsa
lncRNA	H1-M0	50986	hsa
lncRNA	H1-M0	50695	hsa
protein_codin	H1-M1	7820	hsa
transcribed_ur	H1-M0	61307	hsa
protein_codin	H1-M1	9006	hsa
protein_codin	H1-M*	210	hsa
miRNA	H1-M0	55934	hsa
protein_codin	H1-M1	2428	hsa
protein_codin	H1-M0	45456	hsa
protein_codin	H1-M1	17960	hsa
snRNA	H1-M0	49749	hsa
lncRNA	H1-M0	37235	hsa
lncRNA	H1-M0	54864	hsa
protein_codin	H1-M1	12461	hsa
protein_codin	H1-M1	14863	hsa
miRNA	H1-M0	41775	hsa
TEC	H1-M0	38982	hsa
processed_pse	H1-M0	39047	hsa
lncRNA	H1-M0	38131	hsa
protein_codin	H1-M1	14964	hsa
protein_codin	H1-M1	12213	hsa
protein_codin	H1-M1	8266	hsa
protein_codin	H1-M1	2355	hsa
protein_codin	H1-M0	44400	hsa
protein_codin	H1-M1	17592	hsa
protein_codin	H1-M1	13878	hsa
protein_codin	H1-M1	7966	hsa
protein_codin	H*-M*	50	hsa
protein_codin	H1-M1	6443	hsa
lncRNA	H1-M0	42919	hsa
protein_codin	H1-M*	223	hsa
protein_codin	H1-M1	17153	hsa
processed_pse	H1-M0	18531	hsa
protein_codin	H1-M1	17039	hsa
protein_codin	H1-M0	35305	hsa
protein_codin	H1-M1	4037	hsa
protein_codin	H1-M1	5339	hsa
protein_codin	H1-M1	15975	hsa
protein_codin	H1-M*	104	hsa
protein_codin	H1-M1	9502	hsa

protein_codin	H1-M1	13820	hsa
protein_codin	H1-M0	22366	hsa
protein_codin	H1-M1	6472	hsa
protein_codin	H1-M1	11636	hsa
lncRNA	H1-M0	31733	hsa
protein_codin	H1-M0	38449	hsa
protein_codin	H1-M1	13186	hsa
protein_codin	H1-M1	13802	hsa
protein_codin	H1-M1	10553	hsa
protein_codin	H1-M0	27070	hsa
protein_codin	H1-M1	11330	hsa
protein_codin	H1-M1	3538	hsa
lncRNA	H1-M0	20240	hsa
protein_codin	H1-M0	40109	hsa
lncRNA	H1-M0	48264	hsa
protein_codin	H1-M1	4608	hsa
transcribed_ur	H1-M0	52206	hsa
lncRNA	H1-M0	52208	hsa
transcribed_ur	H1-M0	57866	hsa
protein_codin	H1-M*	77	hsa
lncRNA	H1-M0	50451	hsa
protein_codin	H1-M1	6763	hsa
protein_codin	H1-M1	9077	hsa
lncRNA	H1-M0	20499	hsa
protein_codin	H1-M1	10502	hsa
protein_codin	H1-M1	16597	hsa
protein_codin	H1-M1	13659	hsa
protein_codin	H1-M1	6587	hsa
protein_codin	H*-M*	130	hsa
protein_codin	H1-M0	46374	hsa
protein_codin	H1-M1	2002	hsa
protein_codin	H1-M1	18015	hsa
lncRNA	H1-M0	28506	hsa
protein_codin	H1-M1	8973	hsa
lncRNA	H1-M0	22227	hsa
protein_codin	H1-M*	971	hsa
protein_codin	H1-M1	15423	hsa
protein_codin	H1-M1	10822	hsa
protein_codin	H1-M*	739	hsa
protein_codin	H1-M1	10579	hsa
protein_codin	H1-M1	16226	hsa
snRNA	H*-M*	300	hsa
protein_codin	H1-M1	7576	hsa
protein_codin	H1-M1	10388	hsa
protein_codin	H1-M1	5656	hsa
protein_codin	H1-M1	17519	hsa
lncRNA	H1-M0	42915	hsa
lncRNA	H1-M0	23469	hsa
protein_codin	H1-M1	1271	hsa
protein_codin	H1-M1	11739	hsa
protein_codin	H1-M1	16077	hsa
lncRNA	H1-M0	30788	hsa

lncRNA	H1-M0	51166	hsa
protein_codin	H1-M0	39973	hsa
protein_codin	H1-M1	11028	hsa
protein_codin	H1-M1	6770	hsa
protein_codin	H1-M1	15857	hsa
protein_codin	H1-M1	2090	hsa
protein_codin	H1-M1	9052	hsa
protein_codin	H1-M1	5382	hsa
protein_codin	H1-M1	16769	hsa
protein_codin	H1-M1	12863	hsa
protein_codin	H1-M0	55182	hsa
protein_codin	H1-M1	6627	hsa
protein_codin	H1-M1	15487	hsa
protein_codin	H1-M0	48423	hsa
protein_codin	H1-M0	58952	hsa
protein_codin	H1-M0	40634	hsa
processed_pse	H1-M0	36346	hsa
protein_codin	H1-M1	8624	hsa
protein_codin	H*-M*	355	hsa
lncRNA	H1-M0	51329	hsa
transcribed_ur	H1-M0	54418	hsa
protein_codin	H1-M1	15428	hsa
lncRNA	H1-M0	47090	hsa
protein_codin	H1-M1	14833	hsa
protein_codin	H1-M1	4989	hsa
protein_codin	H1-M1	12543	hsa
lncRNA	H1-M0	56956	hsa
protein_codin	H1-M1	2493	hsa
protein_codin	H1-M1	15416	hsa
unprocessed_p	H1-M0	33204	hsa
protein_codin	H1-M1	7324	hsa
protein_codin	H1-M1	10201	hsa
lncRNA	H1-M0	39829	hsa
protein_codin	H1-M1	13247	hsa
protein_codin	H1-M1	1446	hsa
protein_codin	H1-M1	16253	hsa
lncRNA	H1-M0	53726	hsa
lncRNA	H1-M0	24041	hsa
protein_codin	H1-M1	6058	hsa
protein_codin	H1-M1	17919	hsa
protein_codin	H1-M1	7684	hsa
protein_codin	H1-M1	16374	hsa
protein_codin	H1-M1	15089	hsa
lncRNA	H1-M0	48272	hsa
protein_codin	H1-M1	17553	hsa
protein_codin	H1-M1	13732	hsa
TEC	H1-M0	36789	hsa
protein_codin	H1-M1	8060	hsa
protein_codin	H1-M0	45307	hsa
protein_codin	H1-M0	53590	hsa
lncRNA	H1-M0	46626	hsa
rRNA	H1-M0	18224	hsa

processed_pse	H1-M0	21605	hsa
lncRNA	H1-M0	41411	hsa
protein_codin	H1-M0	42401	hsa
processed_pse	H1-M0	27345	hsa
protein_codin	H1-M1	11639	hsa
protein_codin	H1-M1	13317	hsa
protein_codin	H*-M1	815	hsa
protein_codin	H1-M1	11548	hsa
lncRNA	H1-M0	46939	hsa
lncRNA	H1-M0	45139	hsa
protein_codin	H1-M1	7227	hsa
TEC	H1-M0	59895	hsa
transcribed_ur	H1-M0	54614	hsa
protein_codin	H1-M1	4038	hsa
protein_codin	H1-M1	15656	hsa
lncRNA	H1-M0	51518	hsa
protein_codin	H1-M1	9887	hsa
protein_codin	H1-M1	2439	hsa
miRNA	H1-M0	36641	hsa
protein_codin	H1-M1	13889	hsa
protein_codin	H1-M1	6118	hsa
lncRNA	H1-M0	52346	hsa
protein_codin	H1-M1	15227	hsa
protein_codin	H1-M1	10974	hsa
protein_codin	H1-M1	7942	hsa
protein_codin	H1-M1	4292	hsa
protein_codin	H1-M1	15648	hsa
protein_codin	H1-M1	2440	hsa
lncRNA	H1-M0	24042	hsa
protein_codin	H1-M1	7289	hsa
protein_codin	H1-M1	2222	hsa
protein_codin	H1-M0	45430	hsa
protein_codin	H1-M1	12248	hsa
protein_codin	H1-M1	12905	hsa
protein_codin	H1-M1	10831	hsa
protein_codin	H1-M1	8171	hsa
lncRNA	H1-M0	60667	hsa
lncRNA	H1-M0	55340	hsa
protein_codin	H1-M1	17300	hsa
protein_codin	H1-M1	2390	hsa
lncRNA	H1-M0	30204	hsa
lncRNA	H1-M0	57868	hsa
lncRNA	H1-M0	61262	hsa
protein_codin	H1-M1	10308	hsa
rRNA	H1-M0	18226	hsa
protein_codin	H1-M1	4852	hsa
lncRNA	H1-M0	53850	hsa
protein_codin	H1-M1	10280	hsa
protein_codin	H1-M1	8817	hsa
protein_codin	H1-M1	2494	hsa
protein_codin	H1-M0	45308	hsa
lncRNA	H1-M0	30063	hsa

protein_codin	H*-M*	192	hsa
protein_codin	H1-M1	1240	hsa
lncRNA	H1-M0	61128	hsa
lncRNA	H1-M0	53153	hsa
protein_codin	H1-M1	8734	hsa
protein_codin	H1-M*	83	hsa
lncRNA	H1-M0	57594	hsa
protein_codin	H1-M1	10323	hsa
protein_codin	H1-M1	6552	hsa
protein_codin	H1-M1	4452	hsa
Mt_rRNA	H1-M0	18193	hsa
lncRNA	H1-M0	55039	hsa
protein_codin	H1-M1	4427	hsa
protein_codin	H1-M1	6718	hsa
protein_codin	H1-M1	12297	hsa
protein_codin	H1-M1	2116	hsa
protein_codin	H1-M1	8477	hsa
protein_codin	H1-M1	12203	hsa
protein_codin	H1-M1	14315	hsa
lncRNA	H1-M0	23665	hsa
protein_codin	H1-M0	47667	hsa
lncRNA	H1-M0	23992	hsa
protein_codin	H1-M1	13914	hsa
protein_codin	H1-M1	2276	hsa
lncRNA	H1-M0	40009	hsa
protein_codin	H1-M1	15906	hsa
protein_codin	H1-M1	4172	hsa
protein_codin	H1-M1	8765	hsa
rRNA	H1-M0	19325	hsa
protein_codin	H1-M1	4136	hsa
rRNA	H1-M0	19315	hsa
protein_codin	H1-M0	55984	hsa
lncRNA	H1-M0	39066	hsa
protein_codin	H1-M1	11602	hsa
protein_codin	H1-M1	12526	hsa
protein_codin	H1-M1	14993	hsa
transcribed_ur	H1-M0	37743	hsa
protein_codin	H1-M1	12530	hsa
protein_codin	H1-M1	5174	hsa
protein_codin	H1-M1	12389	hsa
protein_codin	H1-M*	449	hsa
protein_codin	H1-M1	5191	hsa
protein_codin	H1-M1	2550	hsa
protein_codin	H1-M0	37884	hsa
protein_codin	H1-M1	10341	hsa
protein_codin	H1-M1	1135	hsa
protein_codin	H1-M1	7521	hsa
misc_RNA	H1-M0	24845	hsa
protein_codin	H1-M0	55528	hsa
protein_codin	H*-M1	834	hsa
miRNA	H1-M0	59705	hsa
lncRNA	H1-M0	25972	hsa

lncRNA	H1-M0	61085	hsa
lncRNA	H1-M0	45921	hsa
protein_codin	H1-M1	2471	hsa
protein_codin	H1-M1	3799	hsa
protein_codin	H1-M0	36895	hsa
protein_codin	H1-M1	5300	hsa
lncRNA	H1-M0	47642	hsa
lncRNA	H1-M0	48041	hsa
protein_codin	H1-M1	16675	hsa
protein_codin	H1-M1	15329	hsa
protein_codin	H1-M1	17884	hsa
protein_codin	H1-M1	4397	hsa
protein_codin	H1-M1	4509	hsa
protein_codin	H1-M0	20764	hsa
protein_codin	H1-M1	7699	hsa
protein_codin	H1-M1	12601	hsa
protein_codin	H1-M0	37376	hsa
lncRNA	H1-M0	57007	hsa
transcribed_ur	H1-M0	52105	hsa
protein_codin	H1-M1	5763	hsa
protein_codin	H1-M1	7490	hsa
lncRNA	H1-M0	47641	hsa
protein_codin	H1-M1	16868	hsa
processed_pse	H1-M0	43503	hsa
lncRNA	H1-M0	57863	hsa
protein_codin	H1-M0	60229	hsa
protein_codin	H1-M1	3061	hsa
protein_codin	H1-M1	4313	hsa
lncRNA	H1-M0	54403	hsa
protein_codin	H1-M1	7860	hsa
processed_pse	H1-M0	40998	hsa
lncRNA	H1-M0	42921	hsa
protein_codin	H1-M1	16159	hsa
protein_codin	H1-M1	9418	hsa
lncRNA	H1-M0	51676	hsa
protein_codin	H1-M1	5530	hsa
protein_codin	H1-M1	11016	hsa
protein_codin	H1-M0	54280	hsa
protein_codin	H1-M1	8504	hsa
protein_codin	H1-M1	8745	hsa
lncRNA	H1-M0	21265	hsa
protein_codin	H1-M1	18095	hsa
lncRNA	H1-M0	51977	hsa
protein_codin	H1-M1	5163	hsa
protein_codin	H1-M1	7854	hsa
protein_codin	H1-M1	1713	hsa
protein_codin	H1-M0	40172	hsa
lncRNA	H1-M0	55784	hsa
protein_codin	H1-M1	1736	hsa
lncRNA	H1-M0	61043	hsa
protein_codin	H1-M1	4351	hsa
protein_codin	H1-M1	15914	hsa

protein_codin	H1-M1	10342	hsa
TEC	H1-M0	37264	hsa
lncRNA	H1-M0	46843	hsa
protein_codin	H1-M1	5449	hsa
protein_codin	H1-M1	8155	hsa
protein_codin	H1-M1	15997	hsa
protein_codin	H1-M1	9046	hsa
protein_codin	H1-M1	9009	hsa
protein_codin	H1-M1	17973	hsa
protein_codin	H1-M1	17264	hsa
protein_codin	H1-M1	17248	hsa
protein_codin	H1-M1	9035	hsa
protein_codin	H1-M0	60233	hsa
rRNA	H1-M0	19328	hsa
protein_codin	H1-M1	4523	hsa
protein_codin	H1-M0	48403	hsa
protein_codin	H1-M0	21098	hsa
protein_codin	H*-M1	741	hsa
lncRNA	H1-M0	61308	hsa
protein_codin	H1-M1	9705	hsa
protein_codin	H1-M0	51705	hsa
lncRNA	H1-M0	60057	hsa
protein_codin	H1-M1	11895	hsa
protein_codin	H1-M1	17599	hsa
protein_codin	H1-M0	44306	hsa
lncRNA	H1-M0	51500	hsa
protein_codin	H1-M1	11964	hsa
protein_codin	H1-M1	12965	hsa
protein_codin	H1-M1	5573	hsa
transcribed_pr	H1-M0	26601	hsa
protein_codin	H1-M1	11643	hsa
protein_codin	H1-M0	41457	hsa
protein_codin	H1-M1	10244	hsa
rRNA	H1-M0	18239	hsa
protein_codin	H1-M1	2192	hsa
protein_codin	H1-M1	10215	hsa
protein_codin	H1-M1	12625	hsa
lncRNA	H1-M0	20822	hsa
protein_codin	H1-M1	17636	hsa
protein_codin	H1-M0	39864	hsa
protein_codin	H1-M1	15515	hsa
protein_codin	H1-M1	1611	hsa
protein_codin	H1-M1	6394	hsa
protein_codin	H1-M1	7365	hsa
protein_codin	H1-M1	4497	hsa
protein_codin	H1-M1	5401	hsa
protein_codin	H1-M1	14314	hsa
lncRNA	H1-M0	59896	hsa
protein_codin	H1-M0	30231	hsa
lncRNA	H1-M0	54419	hsa
rRNA	H1-M0	19335	hsa
protein_codin	H1-M0	19214	hsa

protein_codin	H1-M1	14270	hsa
lncRNA	H1-M0	22141	hsa
protein_codin	H1-M1	11680	hsa
protein_codin	H1-M1	17358	hsa
protein_codin	H1-M1	2199	hsa
protein_codin	H1-M1	17171	hsa
transcribed_pr	H1-M0	45316	hsa
protein_codin	H1-M1	17361	hsa
lncRNA	H1-M0	27531	hsa
protein_codin	H1-M1	15305	hsa
lncRNA	H1-M0	52797	hsa
ribozyme	H1-M0	27532	hsa
protein_codin	H1-M1	16154	hsa
lncRNA	H1-M0	41344	hsa
protein_codin	H1-M1	3770	hsa
protein_codin	H1-M1	2561	hsa
protein_codin	H*-M1	815	hsa
protein_codin	H1-M1	13408	hsa
lncRNA	H1-M0	52393	hsa
protein_codin	H1-M1	2557	hsa
rRNA	H1-M0	18238	hsa
protein_codin	H1-M1	4853	hsa
lncRNA	H1-M0	41374	hsa
miRNA	H1-M0	21350	hsa
protein_codin	H1-M1	11853	hsa
protein_codin	H1-M0	30545	hsa
protein_codin	H1-M0	40894	hsa
protein_codin	H1-M1	13892	hsa
protein_codin	H1-M1	5412	hsa
protein_codin	H1-M1	13110	hsa
artifact	H1-M0	26147	hsa
lncRNA	H1-M0	58870	hsa
protein_codin	H1-M0	18776	hsa
protein_codin	H1-M1	4795	hsa
transcribed_ur	H1-M0	57861	hsa
protein_codin	H1-M1	17666	hsa
protein_codin	H1-M*	915	hsa
protein_codin	H1-M0	42382	hsa
protein_codin	H1-M*	695	hsa
lncRNA	H1-M0	61249	hsa
protein_codin	H1-M0	48517	hsa
lncRNA	H1-M0	53100	hsa
processed_pse	H1-M0	47365	hsa
protein_codin	H1-M0	59557	hsa
protein_codin	H1-M1	8742	hsa
unprocessed_p	H1-M0	45325	hsa
processed_pse	H1-M0	24981	hsa
protein_codin	H1-M1	12929	hsa
protein_codin	H1-M1	12138	hsa
protein_codin	H1-M1	2178	hsa
lncRNA	H1-M0	31679	hsa
protein_codin	H1-M*	740	hsa

protein_codin	H1-M1	5600	hsa
protein_codin	H1-M1	4648	hsa
transcribed_ur	H1-M0	61260	hsa
lncRNA	H1-M0	21763	hsa
protein_codin	H1-M1	13845	hsa
protein_codin	H1-M1	16790	hsa
protein_codin	H1-M1	5327	hsa
processed_pse	H1-M0	52566	hsa
protein_codin	H1-M1	5326	hsa
protein_codin	H1-M1	9925	hsa
transcribed_pr	H1-M0	52281	hsa
protein_codin	H1-M0	30531	hsa
protein_codin	H1-M1	17879	hsa
lncRNA	H1-M0	30003	hsa
protein_codin	H1-M1	9503	hsa
protein_codin	H1-M1	5835	hsa
protein_codin	H1-M*	234	hsa
protein_codin	H1-M1	2974	hsa
protein_codin	H1-M1	3219	hsa
protein_codin	H1-M1	1558	hsa
ribozyme	H1-M0	51446	hsa
protein_codin	H1-M1	4459	hsa
protein_codin	H1-M1	6867	hsa
protein_codin	H1-M1	7705	hsa
protein_codin	H1-M1	6488	hsa
protein_codin	H1-M1	7754	hsa
protein_codin	H1-M0	35900	hsa
protein_codin	H1-M1	9574	hsa
lncRNA	H1-M0	44768	hsa
protein_codin	H1-M1	16241	hsa
protein_codin	H1-M1	4874	hsa
protein_codin	H1-M1	17351	hsa
protein_codin	H1-M1	17637	hsa
protein_codin	H1-M1	11134	hsa
protein_codin	H1-M1	15885	hsa
protein_codin	H1-M1	9955	hsa
protein_codin	H1-M1	15725	hsa
protein_codin	H1-M1	12493	hsa
protein_codin	H1-M1	18149	hsa
protein_codin	H1-M1	2037	hsa
protein_codin	H1-M1	12087	hsa
protein_codin	H1-M1	10612	hsa
protein_codin	H1-M1	6135	hsa
lncRNA	H1-M0	59748	hsa
protein_codin	H1-M1	2456	hsa
protein_codin	H1-M1	14826	hsa
lncRNA	H1-M0	37411	hsa
protein_codin	H1-M0	55982	hsa
lncRNA	H1-M0	30028	hsa
lncRNA	H1-M0	31371	hsa
TEC	H1-M0	29819	hsa
protein_codin	H1-M1	15677	hsa

protein_codin	H1-M1	14018	hsa
lncRNA	H1-M0	22699	hsa
protein_codin	H1-M1	17614	hsa
protein_codin	H1-M1	14493	hsa
protein_codin	H1-M1	14348	hsa
protein_codin	H1-M1	8853	hsa
lncRNA	H1-M0	52357	hsa
protein_codin	H1-M1	12436	hsa
protein_codin	H1-M0	26260	hsa
protein_codin	H1-M1	11774	hsa
transcribed_ur	H1-M0	56358	hsa
protein_codin	H1-M1	7279	hsa
protein_codin	H1-M1	1539	hsa
protein_codin	H1-M1	9151	hsa
processed_pse	H1-M0	34019	hsa
protein_codin	H1-M0	53963	hsa
lncRNA	H1-M0	50272	hsa
protein_codin	H1-M1	9835	hsa
protein_codin	H1-M1	8883	hsa
lncRNA	H1-M0	31372	hsa
protein_codin	H1-M1	12202	hsa
protein_codin	H1-M1	14024	hsa
protein_codin	H1-M1	12417	hsa
protein_codin	H1-M1	14903	hsa
protein_codin	H1-M1	10855	hsa
protein_codin	H1-M1	9409	hsa
protein_codin	H1-M*	914	hsa
protein_codin	H1-M1	4665	hsa
protein_codin	H1-M1	4419	hsa
protein_codin	H1-M1	13835	hsa
protein_codin	H1-M1	13087	hsa
protein_codin	H1-M1	6654	hsa
protein_codin	H*-M1	829	hsa
transcribed_pr	H1-M0	19855	hsa
protein_codin	H1-M1	9857	hsa
protein_codin	H1-M0	39895	hsa
protein_codin	H1-M1	16392	hsa
protein_codin	H1-M1	16056	hsa
protein_codin	H1-M1	3812	hsa
protein_codin	H1-M0	32203	hsa
lncRNA	H1-M0	54615	hsa
protein_codin	H1-M1	7886	hsa
protein_codin	H1-M1	9612	hsa
protein_codin	H1-M1	8221	hsa
protein_codin	H1-M0	58578	hsa
protein_codin	H1-M1	12324	hsa
transcribed_ur	H1-M0	61323	hsa
protein_codin	H1-M1	16398	hsa
protein_codin	H1-M0	28246	hsa
protein_codin	H1-M1	11779	hsa
lncRNA	H1-M0	25047	hsa
protein_codin	H1-M1	11048	hsa

protein_codin	H1-M1	14590	hsa
lncRNA	H1-M0	48592	hsa
protein_codin	H1-M1	4872	hsa
protein_codin	H1-M1	4160	hsa
protein_codin	H1-M1	9246	hsa
snoRNA	H1-M1	4767	hsa
protein_codin	H1-M0	55970	hsa
protein_codin	H1-M0	39980	hsa
lncRNA	H1-M0	53978	hsa
lncRNA	H1-M0	61090	hsa
protein_codin	H1-M1	14503	hsa
protein_codin	H1-M1	11574	hsa
protein_codin	H1-M1	12889	hsa
protein_codin	H1-M1	4209	hsa
protein_codin	H1-M1	15718	hsa
protein_codin	H1-M1	18079	hsa
protein_codin	H1-M1	2108	hsa
lncRNA	H1-M0	30801	hsa
protein_codin	H1-M1	11396	hsa
lncRNA	H1-M0	43710	hsa
protein_codin	H1-M1	3651	hsa
protein_codin	H1-M1	11681	hsa
protein_codin	H1-M1	15359	hsa
protein_codin	H1-M1	17799	hsa
protein_codin	H1-M1	17956	hsa
lncRNA	H1-M0	61070	hsa
protein_codin	H1-M1	16613	hsa
processed_pse	H1-M0	19928	hsa
misc_RNA	H1-M0	43719	hsa
lncRNA	H1-M0	24144	hsa
protein_codin	H1-M1	13532	hsa
protein_codin	H1-M1	7945	hsa
TEC	H1-M0	58749	hsa
lncRNA	H1-M0	61324	hsa
protein_codin	H1-M1	8405	hsa
protein_codin	H1-M1	17433	hsa
protein_codin	H1-M1	17169	hsa
protein_codin	H1-M1	3067	hsa
protein_codin	H1-M1	10541	hsa
protein_codin	H*-M1	829	hsa
lncRNA	H1-M0	54398	hsa
protein_codin	H1-M1	15142	hsa
protein_codin	H1-M1	17643	hsa
protein_codin	H1-M1	3125	hsa
protein_codin	H1-M1	17507	hsa
protein_codin	H1-M1	9116	hsa
protein_codin	H1-M1	13287	hsa
protein_codin	H1-M1	9007	hsa
protein_codin	H1-M1	9761	hsa
protein_codin	H1-M1	12931	hsa
protein_codin	H1-M1	10446	hsa
protein_codin	H1-M1	4477	hsa

protein_codin	H1-M1	1848	hsa
snoRNA	H1-M0	47818	hsa
protein_codin	H1-M1	17623	hsa
protein_codin	H1-M1	12326	hsa
protein_codin	H1-M1	5205	hsa
protein_codin	H1-M1	1941	hsa
protein_codin	H1-M1	2256	hsa
lncRNA	H1-M0	61343	hsa
protein_codin	H1-M1	12472	hsa
protein_codin	H1-M1	9221	hsa
protein_codin	H1-M1	4137	hsa
transcribed_pr	H1-M0	52282	hsa
protein_codin	H1-M1	8608	hsa
protein_codin	H1-M0	27128	hsa
protein_codin	H1-M1	15126	hsa
protein_codin	H1-M1	5741	hsa
lncRNA	H1-M0	34650	hsa
transcribed_ur	H1-M0	51737	hsa
protein_codin	H1-M1	8484	hsa
lncRNA	H1-M0	58066	hsa
protein_codin	H1-M1	11676	hsa
protein_codin	H1-M1	8160	hsa
protein_codin	H1-M1	17997	hsa
unprocessed_p	H1-M0	58500	hsa
lncRNA	H1-M0	47541	hsa
protein_codin	H1-M1	4447	hsa
protein_codin	H1-M0	30553	hsa
transcribed_ur	H1-M0	56926	hsa
protein_codin	H1-M1	17185	hsa
protein_codin	H1-M1	17746	hsa
protein_codin	H1-M1	12803	hsa
protein_codin	H1-M0	53919	hsa
protein_codin	H1-M1	12404	hsa
protein_codin	H1-M1	7635	hsa
protein_codin	H1-M1	16187	hsa
protein_codin	H1-M1	10750	hsa
protein_codin	H1-M1	4716	hsa
processed_pse	H1-M0	22056	hsa
lncRNA	H1-M0	54677	hsa
protein_codin	H1-M1	3784	hsa
protein_codin	H1-M1	15888	hsa
protein_codin	H1-M0	60350	hsa
lncRNA	H1-M0	52276	hsa
lncRNA	H1-M0	52090	hsa
processed_pse	H1-M0	24418	hsa
protein_codin	H1-M1	7812	hsa
protein_codin	H1-M1	16210	hsa
protein_codin	H1-M1	15617	hsa
protein_codin	H1-M1	7004	hsa
protein_codin	H1-M1	10287	hsa
lncRNA	H1-M0	18987	hsa
protein_codin	H1-M1	13075	hsa

lncRNA	H1-M0	48469	hsa
lncRNA	H1-M0	22431	hsa
protein_codin	H1-M1	17635	hsa
protein_codin	H1-M1	6766	hsa
protein_codin	H1-M1	10415	hsa
processed_pse	H1-M0	25196	hsa
protein_codin	H1-M1	17223	hsa
protein_codin	H1-M1	3585	hsa
protein_codin	H1-M1	4238	hsa
protein_codin	H1-M1	3764	hsa
protein_codin	H1-M1	16935	hsa
protein_codin	H1-M0	51886	hsa
protein_codin	H1-M1	6111	hsa
protein_codin	H1-M1	4995	hsa
protein_codin	H1-M1	8438	hsa
lncRNA	H1-M0	55288	hsa
protein_codin	H1-M1	4488	hsa
protein_codin	H1-M1	11861	hsa
protein_codin	H1-M1	3597	hsa
protein_codin	H1-M1	7357	hsa
protein_codin	H1-M1	9833	hsa
protein_codin	H1-M1	12976	hsa
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protein_codin	H1-M0	43253	hsa
protein_codin	H1-M1	15437	hsa
protein_codin	H1-M1	18034	hsa
protein_codin	H1-M0	36464	hsa
protein_codin	H1-M1	13374	hsa
protein_codin	H1-M1	12870	hsa
protein_codin	H1-M1	5526	hsa
protein_codin	H1-M1	2650	hsa
TEC	H1-M0	61261	hsa
protein_codin	H1-M0	45482	hsa
protein_codin	H1-M1	5795	hsa
protein_codin	H1-M1	11356	hsa
protein_codin	H*-M1	672	hsa
protein_codin	H1-M1	15238	hsa
protein_codin	H1-M1	7153	hsa
protein_codin	H1-M1	9226	hsa
protein_codin	H1-M0	54917	hsa
protein_codin	H1-M1	11137	hsa
lncRNA	H1-M0	56599	hsa
lncRNA	H1-M0	18978	hsa
protein_codin	H1-M1	13071	hsa
protein_codin	H1-M1	12262	hsa
protein_codin	H1-M1	3458	hsa
protein_codin	H1-M1	9195	hsa
protein_codin	H1-M1	13730	hsa
protein_codin	H1-M1	5107	hsa
protein_codin	H1-M1	6608	hsa

protein_codin	H1-M1	17153	hsa
protein_codin	H1-M1	9668	hsa
protein_codin	H1-M1	17923	hsa
protein_codin	H1-M1	3547	hsa
protein_codin	H1-M1	3884	hsa
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protein_codin	H1-M1	14390	hsa
protein_codin	H1-M0	44425	hsa
protein_codin	H1-M1	17304	hsa
protein_codin	H1-M1	6892	hsa
protein_codin	H1-M1	10171	hsa
protein_codin	H1-M1	7576	hsa
protein_codin	H1-M1	7215	hsa
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protein_codin	H1-M1	2970	hsa
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protein_codin	H1-M1	4323	hsa
protein_codin	H1-M1	3146	hsa
protein_codin	H1-M1	3325	hsa
protein_codin	H1-M1	10277	hsa
protein_codin	H1-M1	7018	hsa
protein_codin	H1-M0	22676	hsa
protein_codin	H1-M1	15515	hsa
protein_codin	H1-M1	14081	hsa
protein_codin	H1-M1	7581	hsa
protein_codin	H1-M1	7809	hsa
protein_codin	H1-M1	4414	hsa
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protein_codin	H1-M1	14889	hsa
protein_codin	H1-M1	17171	hsa
protein_codin	H1-M1	17666	hsa
protein_codin	H1-M1	16806	hsa
protein_codin	H1-M0	55149	hsa

protein_codin	H1-M1	8495	hsa
protein_codin	H1-M1	15327	hsa
processed_pse	H1-M0	25196	hsa
protein_codin	H1-M1	9393	hsa
protein_codin	H1-M1	5121	hsa
protein_codin	H1-M1	10427	hsa
protein_codin	H1-M1	16549	hsa
protein_codin	H1-M1	9583	hsa
protein_codin	H1-M1	3438	hsa
protein_codin	H1-M1	4619	hsa
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protein_codin	H1-M1	9477	hsa
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protein_codin	H1-M1	9661	hsa
protein_codin	H1-M1	7854	hsa
lncRNA	H1-M0	61128	hsa
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protein_codin	H1-M1	11777	hsa
protein_codin	H1-M1	10187	hsa
protein_codin	H1-M1	18157	hsa
protein_codin	H1-M1	14698	hsa
protein_codin	H1-M1	8433	hsa
protein_codin	H1-M1	2247	hsa
protein_codin	H1-M1	15961	hsa
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protein_codin	H1-M1	8529	hsa
protein_codin	H1-M1	11128	hsa
protein_codin	H1-M1	2440	hsa
protein_codin	H1-M1	6097	hsa
protein_codin	H1-M1	5174	hsa
protein_codin	H1-M0	47640	hsa
protein_codin	H1-M1	9835	hsa
protein_codin	H1-M1	1660	hsa
protein_codin	H1-M1	1557	hsa
protein_codin	H1-M1	17614	hsa
protein_codin	H1-M1	13087	hsa
protein_codin	H1-M1	16159	hsa

protein_codin	H1-M1	17079	hsa
protein_codin	H1-M1	13383	hsa
protein_codin	H1-M1	14493	hsa
protein_codin	H1-M1	11738	hsa
protein_codin	H1-M1	4853	hsa
protein_codin	H1-M1	12472	hsa
protein_codin	H1-M1	15089	hsa
protein_codin	H1-M1	15142	hsa
protein_codin	H1-M1	3133	hsa
protein_codin	H1-M1	4330	hsa
protein_codin	H1-M1	4191	hsa
protein_codin	H1-M1	6319	hsa
protein_codin	H1-M1	7227	hsa
protein_codin	H1-M1	5163	hsa
protein_codin	H1-M1	17484	hsa
protein_codin	H1-M1	7834	hsa
protein_codin	H1-M1	15143	hsa
protein_codin	H1-M1	6657	hsa
protein_codin	H1-M1	12385	hsa
protein_codin	H1-M1	12324	hsa
protein_codin	H1-M1	1102	hsa
protein_codin	H1-M1	18169	hsa
protein_codin	H1-M1	6413	hsa
protein_codin	H*-M*	50	hsa
protein_codin	H1-M1	17811	hsa
protein_codin	H1-M1	17826	hsa
protein_codin	H1-M1	18159	hsa
protein_codin	H1-M1	17405	hsa
protein_codin	H1-M1	6367	hsa
protein_codin	H1-M1	2276	hsa
protein_codin	H1-M1	17935	hsa
protein_codin	H1-M1	7601	hsa
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protein_codin	H1-M1	15892	hsa
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protein_codin	H1-M1	3784	hsa
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protein_codin	H1-M1	12478	hsa
protein_codin	H1-M1	16158	hsa
protein_codin	H1-M1	6976	hsa
protein_codin	H1-M1	7173	hsa
protein_codin	H1-M1	3125	hsa
protein_codin	H1-M1	10058	hsa
protein_codin	H1-M0	47478	hsa

protein_codin	H1-M1	10343	hsa
protein_codin	H1-M1	9607	hsa
protein_codin	H1-M1	13709	hsa
protein_codin	H1-M1	12431	hsa
protein_codin	H1-M1	13914	hsa
protein_codin	H1-M1	7695	hsa
protein_codin	H1-M1	2989	hsa
protein_codin	H1-M1	1989	hsa
protein_codin	H1-M1	1562	hsa
protein_codin	H1-M1	17300	hsa
protein_codin	H1-M1	7932	hsa
protein_codin	H1-M1	5660	hsa
protein_codin	H*-M1	834	hsa
protein_codin	H1-M0	39980	hsa
protein_codin	H1-M1	8504	hsa
protein_codin	H1-M1	17553	hsa
protein_codin	H1-M1	5961	hsa
protein_codin	H1-M1	3708	hsa
protein_codin	H1-M1	14205	hsa
protein_codin	H1-M0	20764	hsa
protein_codin	H1-M0	53692	hsa
protein_codin	H1-M1	17960	hsa
protein_codin	H1-M1	17879	hsa
protein_codin	H1-M1	16210	hsa
protein_codin	H1-M1	7677	hsa
protein_codin	H1-M1	7176	hsa
protein_codin	H1-M1	17324	hsa
protein_codin	H1-M1	5337	hsa
protein_codin	H1-M0	46362	hsa
lncRNA	H1-M0	60300	hsa
lncRNA	H1-M0	53153	hsa
protein_codin	H1-M1	15423	hsa
protein_codin	H1-M0	46374	hsa
TR_C_gene	H*-M*	193	hsa
TR_V_gene	H1-M0	52446	hsa
protein_codin	H1-M1	18143	hsa
processed_pse	H1-M0	49614	hsa
processed_pse	H1-M0	55151	hsa
transcribed_ur	H1-M0	61523	hsa
protein_codin	H1-M1	6558	hsa
lncRNA	H1-M0	52320	hsa
lncRNA	H1-M0	41411	hsa
processed_pse	H1-M0	23151	hsa
protein_codin	H1-M1	7279	hsa
lncRNA	H1-M0	52046	hsa
protein_codin	H1-M1	13191	hsa
lncRNA	H1-M0	53100	hsa
lncRNA	H1-M0	30788	hsa
lncRNA	H1-M0	22699	hsa
lncRNA	H1-M0	56662	hsa
protein_codin	H1-M0	27217	hsa
lncRNA	H1-M0	38583	hsa

lncRNA	H1-M0	53481	hsa
snRNA	H*-M*	54	hsa
lncRNA	H1-M0	22732	hsa
lncRNA	H1-M0	39925	hsa
lncRNA	H1-M0	32603	hsa
protein_codin	H1-M1	12003	hsa
protein_codin	H*-M1	834	hsa
protein_codin	H1-M0	23726	hsa
lncRNA	H1-M0	36485	hsa
lncRNA	H1-M0	49395	hsa
lncRNA	H1-M0	49487	hsa
lncRNA	H1-M0	43272	hsa
lncRNA	H1-M0	59802	hsa
lncRNA	H1-M0	53740	hsa
lncRNA	H1-M0	26386	hsa
lncRNA	H1-M0	51518	hsa
protein_codin	H1-M1	15117	hsa
protein_codin	H1-M1	14590	hsa
protein_codin	H*-M1	983	hsa
protein_codin	H*-M*	451	hsa
artifact	H1-M0	26153	hsa
protein_codin	H*-M1	983	hsa
protein_codin	H*-M1	452	hsa
lncRNA	H1-M0	51233	hsa
miRNA	H1-M0	37280	hsa
protein_codin	H*-M1	452	hsa
TEC	H1-M0	29819	hsa
miRNA	H1-M1	4840	hsa
lncRNA	H1-M0	50096	hsa
protein_codin	H1-M1	13374	hsa
lncRNA	H1-M0	43269	hsa
lncRNA	H1-M0	47642	hsa
lncRNA	H1-M0	26211	hsa
lncRNA	H1-M0	46377	hsa
protein_codin	H1-M0	34353	hsa
lncRNA	H1-M0	60762	hsa
protein_codin	H1-M0	52456	hsa
lncRNA	H1-M0	60993	hsa
lncRNA	H1-M0	61557	hsa
lncRNA	H1-M0	61522	hsa
protein_codin	H1-M1	13820	hsa

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Table S5: RNA-seq samples informations

sample	organism	model	treatment	donor_id	experiment_id	DESeq_batch
HC01	mouse	in vivo	mock		mIV	A (unpaired)
HC02	mouse	in vivo	mock		mIV	A (unpaired)
HC03	mouse	in vivo	mock		mIV	A (unpaired)
HC04	mouse	in vivo	IAV		mIV	A (unpaired)
HC05	mouse	in vivo	IAV		mIV	A (unpaired)
HC06	mouse	in vivo	IAV		mIV	A (unpaired)
HC10	mouse	pcls	mock	np6	mPCLS_IAV	B (paired)
HC11	mouse	pcls	IAV	np6	mPCLS_IAV	B (paired)
HC12	mouse	pcls	mock	np7	mPCLS_IAV	B (paired)
HC13	mouse	pcls	IAV	np7	mPCLS_IAV	B (paired)
HC14	mouse	pcls	mock	np8	mPCLS_IAV	B (paired)
HC15	mouse	pcls	IAV	np8	mPCLS_IAV	B (paired)
HC22	human	pcls	mock	hp4	hPCLS	C (paired)
HC23	human	pcls	IAV	hp4	hPCLS	C (paired)
HC24	human	pcls	Spn	hp4	hPCLS	C (paired)
HC25	human	pcls	mock	hp10	hPCLS	C (paired)
HC26	human	pcls	IAV	hp10	hPCLS	C (paired)
HC27	human	pcls	Spn	hp10	hPCLS	C (paired)
HC28	human	pcls	mock	hp11	hPCLS	C (paired)
HC29	human	pcls	IAV	hp11	hPCLS	C (paired)
HC30	human	pcls	Spn	hp11	hPCLS	C (paired)
HC31	human	pcls	mock	hp12	hPCLS	C (paired)
HC32	human	pcls	IAV	hp12	hPCLS	C (paired)
HC33	human	pcls	Spn	hp12	hPCLS	C (paired)
HC34	human	pcls	mock	hp13	hPCLS	C (paired)
HC35	human	pcls	IAV	hp13	hPCLS	C (paired)
HC36	human	pcls	Spn	hp13	hPCLS	C (paired)

Table S6: FACS reagents

Reagent	***Identifier***	***Source***
Collagenase, Type 4	LS004188	Worthington
DNAseI	10104159001	Roche
LIVE/DEAD™ Fixable Blue Dead Cell Stain Kit	L34961	Thermofisher
True-Stain Monocyte Blocker	426101	Biolegend
LIVE/DEAD™ Fixable Near-IR Dead Cell Stain Kit, for 633 or 635 nm excitation	L34975	Thermofisher
TruStain FcX™ PLUS (anti-mouse CD16/32)	156603	Biolegend
Anti-mouse antibodies		
APC anti-mouse CD45	103111	Biolegend
PE/Dazzle™ 594 anti-mouse CD19	115553	Biolegend
PE/Dazzle™ 594 anti-mouse CD3	100245	Biolegend
PE/Dazzle™ 594 anti-mouse NK-1.1	108747	Biolegend
PE anti-mouse CD170 (Siglec-F)	155505	Biolegend
PE/Cyanine7 anti-mouse/human CD11b	101215	Biolegend
FITC anti-mouse Ly-6G	127605	Biolegend
Brilliant Violet 605™ anti-mouse I-A/I-E	107639	Biolegend
Brilliant Violet 421™ anti-mouse CD11c	117329	Biolegend
Brilliant Violet 785™ anti-mouse Ly-6C	128041	Biolegend
PE/Cyanine7 anti-mouse CD45	103113	Biolegend
PerCP/Cyanine5.5 anti-mouse/human CD11b	101227	Biolegend
PerCP/Cyanine5.5 anti-mouse CD11c	117327	Biolegend
APC/Cyanine7 anti-mouse NK-1.1	108723	Biolegend
Brilliant Violet 785™ anti-mouse CD19	115543	Biolegend
Brilliant Violet 510™ anti-mouse CD4	100553	Biolegend
PE anti-mouse CD8a	100707	Biolegend
Brilliant Violet 605™ anti-mouse CD62L	104437	Biolegend
Brilliant Violet 421™ anti-mouse/human CD44	103039	Biolegend
Alexa Fluor® 647 anti-mouse TCR β chain Antibody	109217	Biolegend
Alexa Fluor® 488 anti-mouse TCR γ/δ Antibody	118127	Biolegend
BD Pharmingen™ Alexa Fluor® 700 Hamster Anti-Mouse CD69	561238	BD
BB700 Armenian Hamster Anti-Mouse CD69	566501	BD
PE anti-mouse/human CD44 Antibody	103023	Biolegend
Brilliant Violet 421™ anti-mouse CD8a Antibody	100737	Biolegend
APC/Cyanine7 anti-mouse/human CD11b	101225	Biolegend
Anti-human antibodies		
CD45 FITC	555482	BD
CD69 PerCPCy5.5	560738	BD
CD27 PE	302808	Biolegend
CCR7 Pe-Dazzle-594	353236	Biolegend
CD19 Pe-Cy5	15019942	Invitrogen
CD56 Pe-Cy7	557747	BD
CD103 APC	563883	BD
CD127 APC-R700	565185	BD
CD3 APC-Cy7	344818	Biolegend
TCRgd BV421	331218	Biolegend
CD4 BV605	562658	BD
CD45RA BV785	304140	Biolegend
CD8 BUV737	612754	BD
HLA-DR PerCP-Cy5.5	560652	BD
CD66b PE	561650	BD
CD11b PE-CF594	562399	BD
CD11c Pe-Cy7	301608	Biolegend
CD14 APC	555399	BD
CD206 AlexaFluor-700	321132	Biolegend
CD3 APC-Cy7	344818	Biolegend
CD19 APC-Cy7	363010	Biolegend
CD56 APC-Cy7	318332	Biolegend
CD16 BV421	562874	BD
CD15 BV605	564232	BD
CD68 BV711	333831	Biolegend