

Figure S1

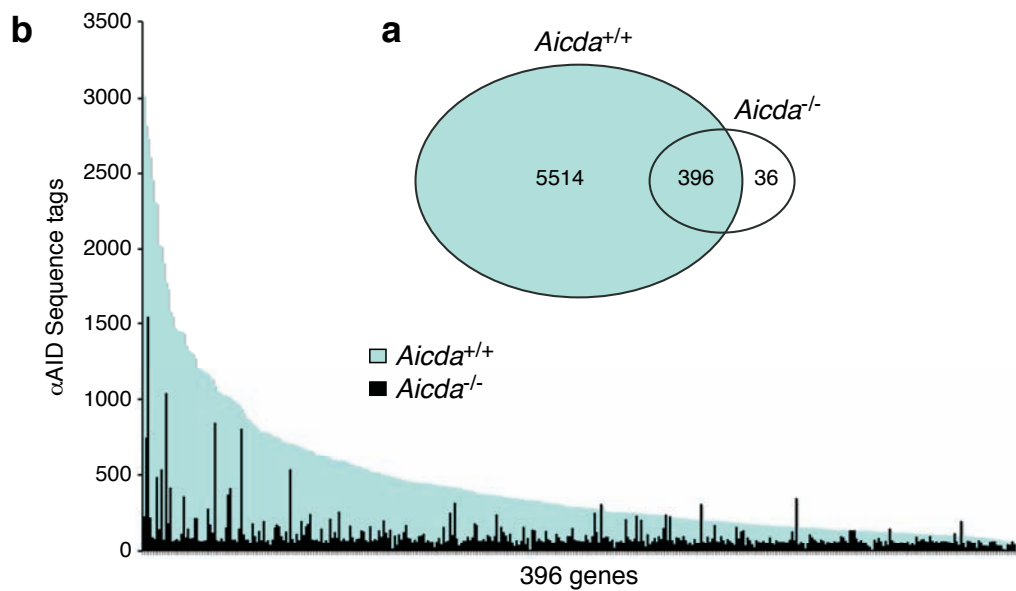


Fig. S1 (a) Venn diagram showing the total number of genes that display AID-specific (*Aicda*^{+/+}) and non-specific (*Aicda*^{-/-}) sequence tags upon AID immunoprecipitation. **(b)** Total sequence tags at each of the 396 overlapping genes shown in **a** obtained from *Aicda*^{+/+} (cyan) or *Aicda*^{-/-} (black) lymphocytes upon AID-Seq.

Figure S2

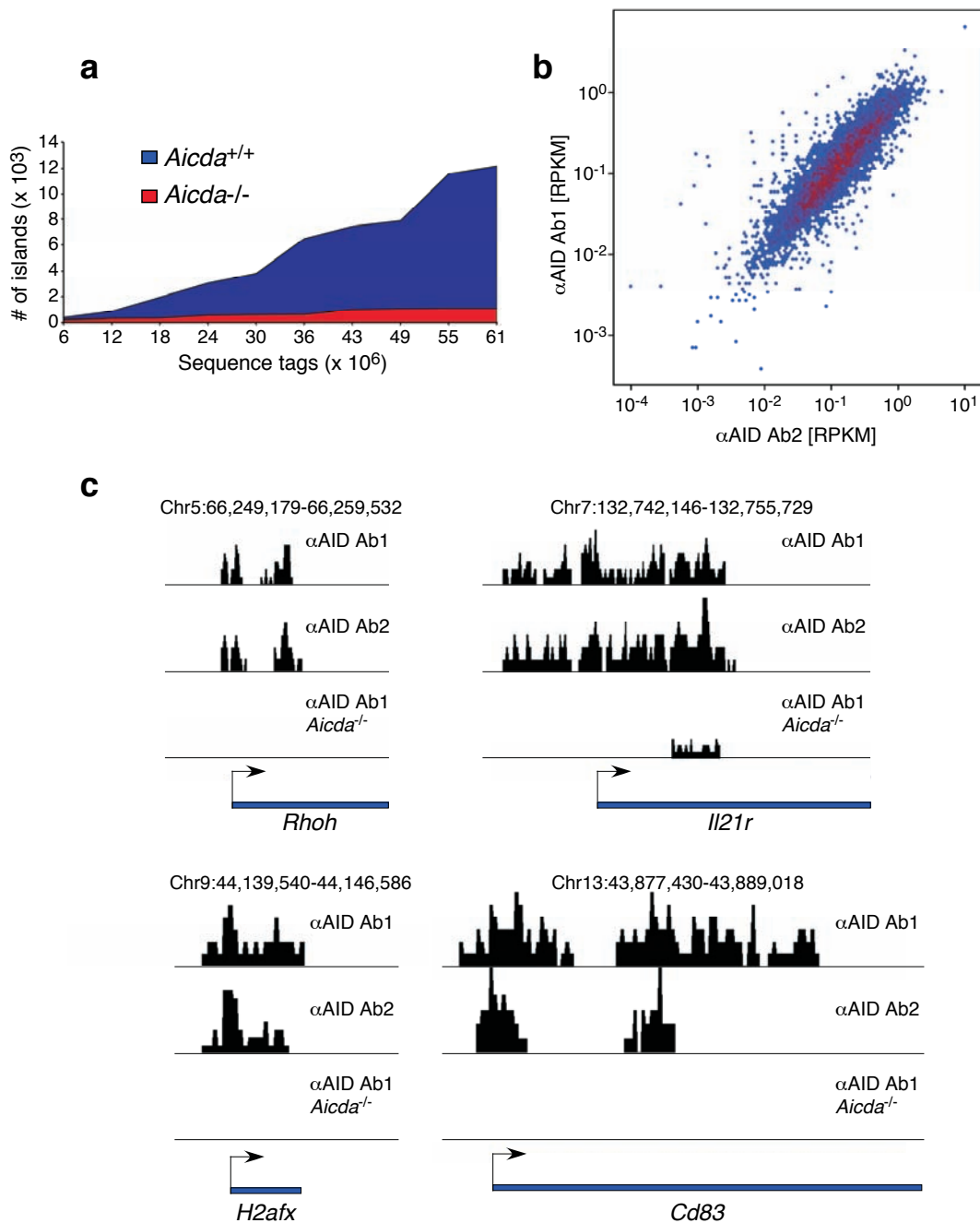


Fig. S2: Validation of AID-Seq (a) Saturation analysis of *Aicda*^{+/+} and *Aicda*^{-/-} microsequencing data divided into random subsets. For each dataset, the number of islands is plotted as a function of the total number of sequence tags (see methods). (b) Comparison of AID-Seq using antibodies Ab1 and Ab2. For each gene the total number of sequence tags per million per kb (RPKM) was plotted. $\chi^2 = 5523$, $P < 0.0005$. (c) Examples of AID immunoprecipitation at known AID targets using the two α AID antibodies. Antibody Ab1 was used in all experiments throughout the text.

Figure S3

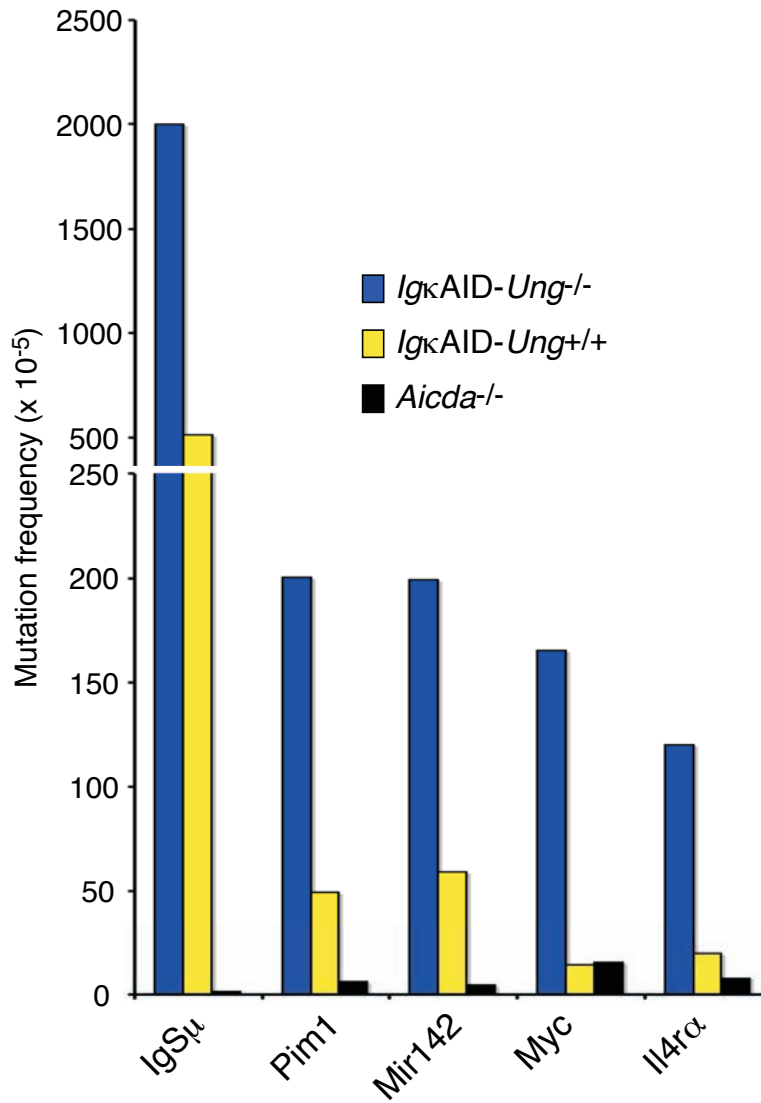


Fig. S3: Comparison of AID-mediated hypermutation at selected genes in *IgκAID* B lymphocytes in the presence or absence of UNG. Hypermutation in *Aicda*^{-/-} cells is also provided as control for unspecific mutations. *IgκAID-UNG*^{+/+} data for *IgS μ* , *Myc*, and *Mir142* genes were previously reported⁹.

Figure S4

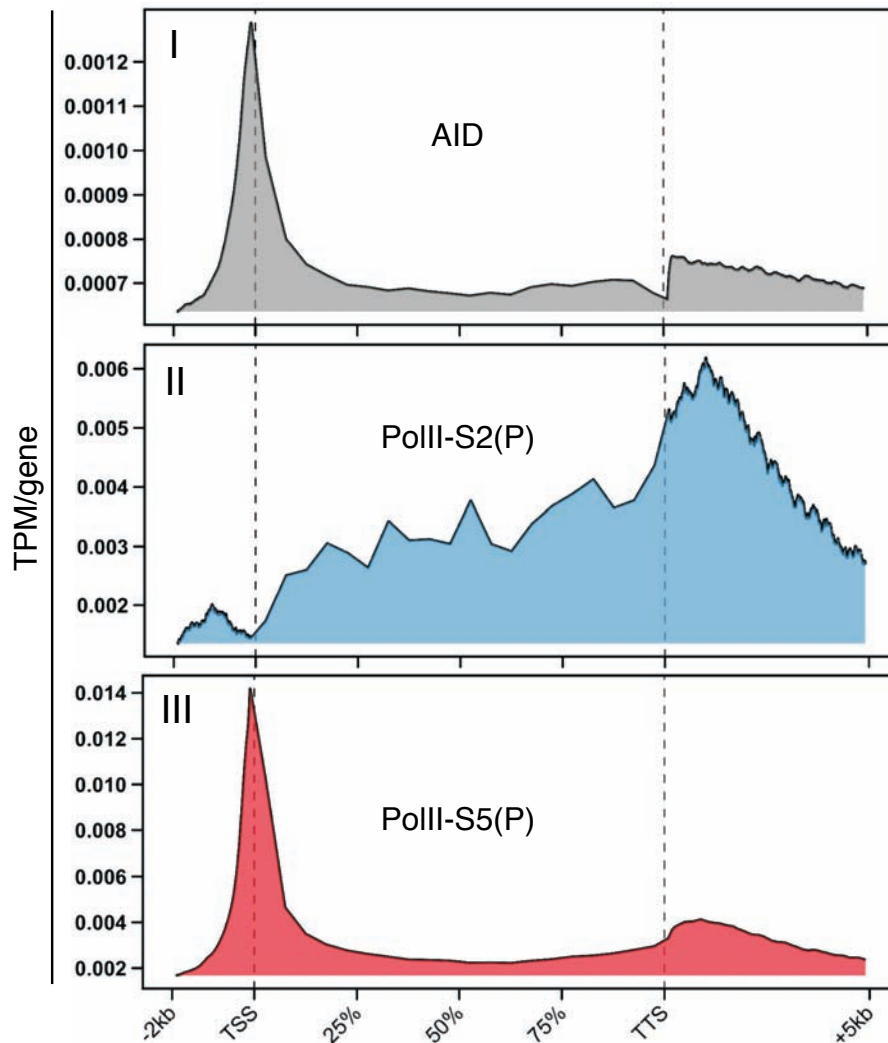


Fig. S4. AID recruitment correlates with sites of PolII stalling and initiation. Composite profiles of AID (panel I), as well as serine 2 (panel II) and serine 5 (panel III) phosphorylated forms of Pol II were obtained by ChIP-Seq analysis of LPS+IL-4 activated B cell samples. Upon recruitment to gene promoters, RNA PolII is phosphorylated within its C-terminal heptameric repeat (YSPTSPS) at positions 2 and 5. As expected³⁸, S5P correlates with sites of transcriptional pausing and initiation, whereas S2P is largely associated with transcriptional elongation and termination.

Figure S5

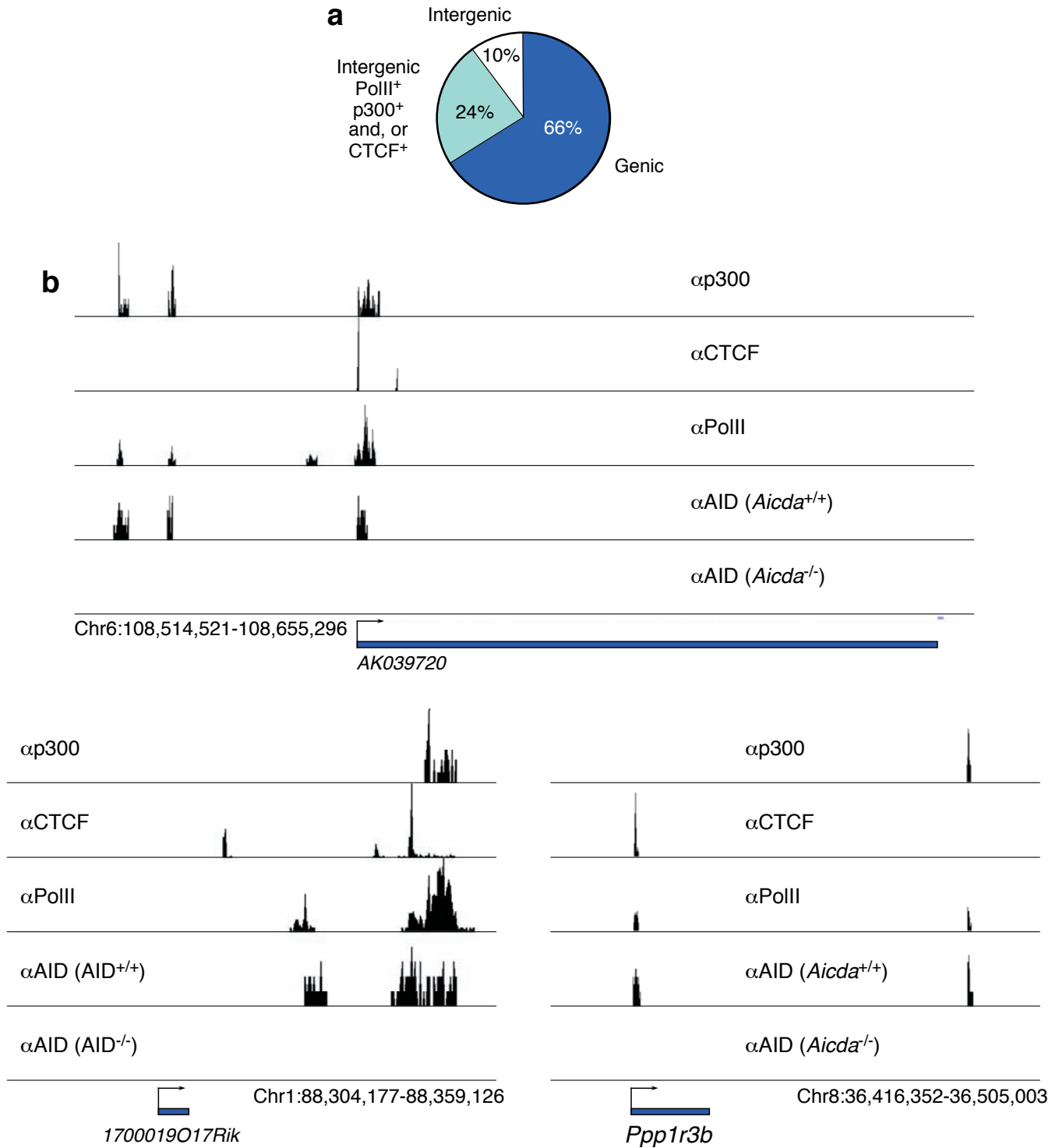


Fig. S5: (a) Pie chart representing the percentage of AID islands that fall within genic and intergenic domains in the B cell genome. A subset of AID intergenic islands overlaps with either PolIII, p300, and/or CTCF. (b) Examples of AID intergenic sites that overlap with PolIII, p300, and/or CTCF islands.

Figure S6

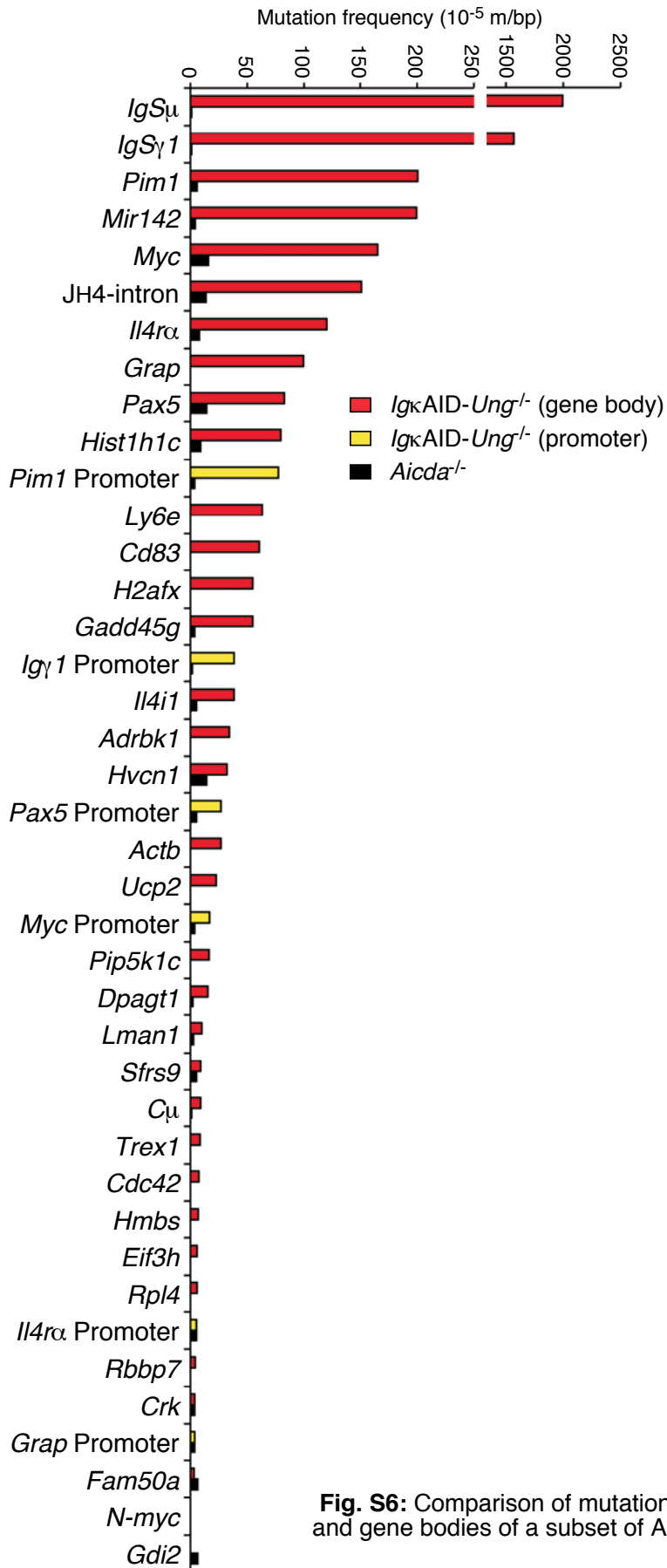


Fig. S6: Comparison of mutation frequency at promoters and gene bodies of a subset of AID on- and off-targets.

Figure S7

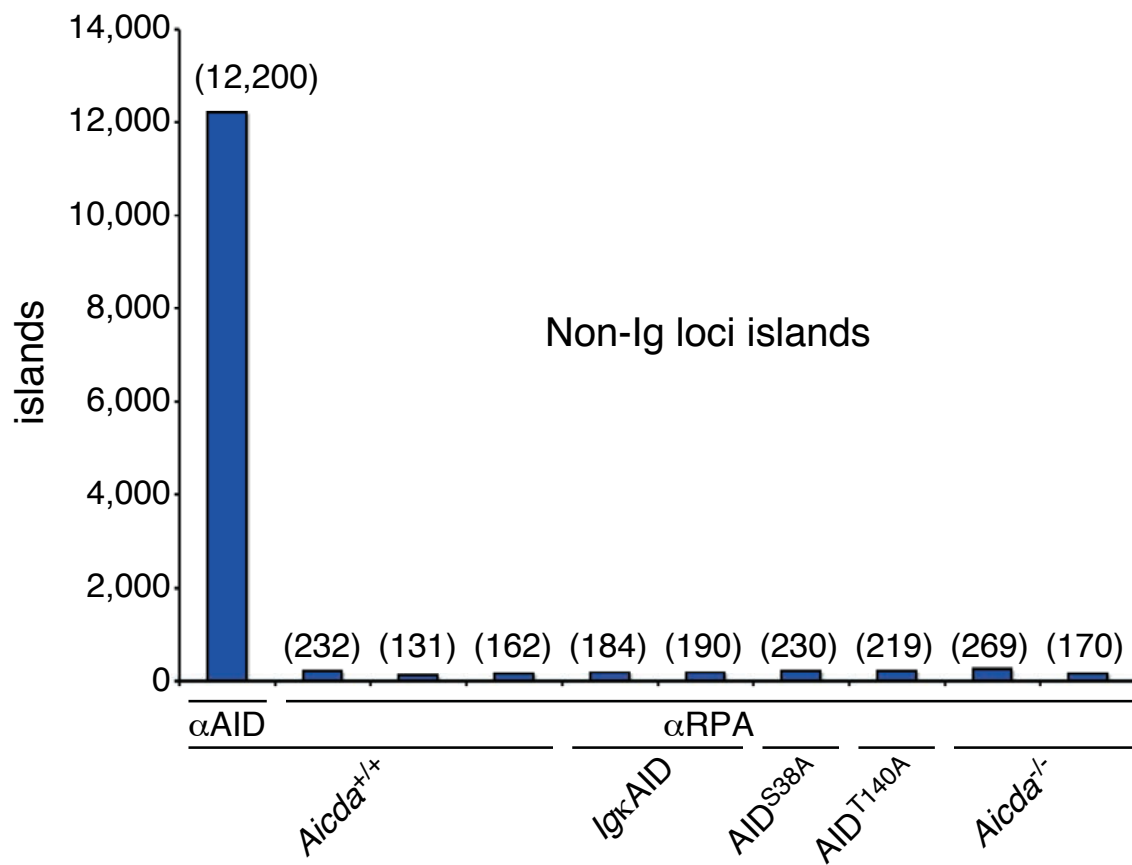


Fig. S7: Total number of non-Ig gene loci islands observed in AID- and RPA-Seq experiments.

Figure S8

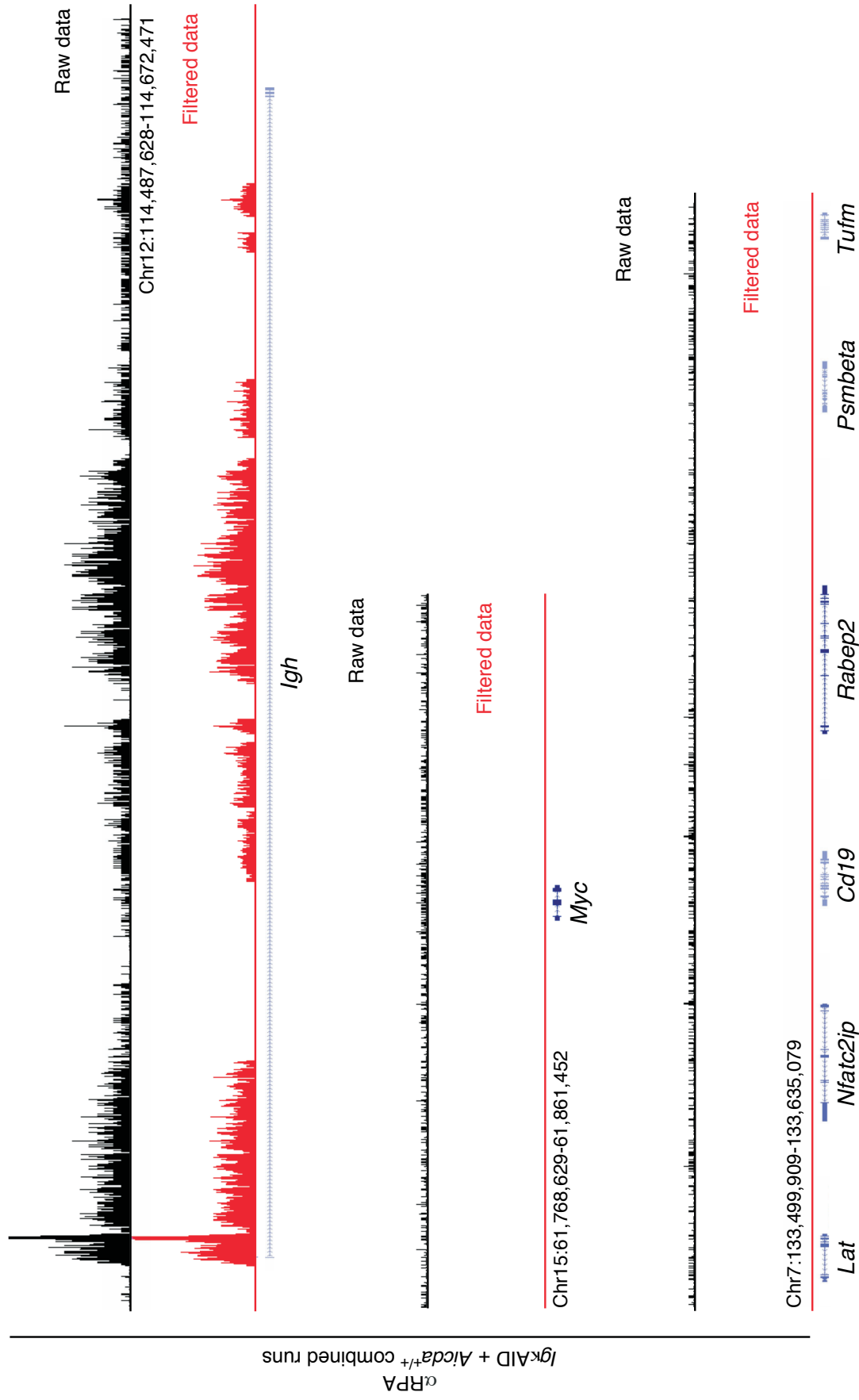


Fig. S8: RPA-Seq at *Igh*, *Myc*, and *Cd19* loci. Data from 2 *IgkAID* and 3 *Aicda*^{+/+} samples was combined to ensure high sequencing saturation (see **Supplementary Table 5**). Both the unfiltered raw (black) and filtered (red) data using the Peak-Finder algorithm are shown.

Figure S9

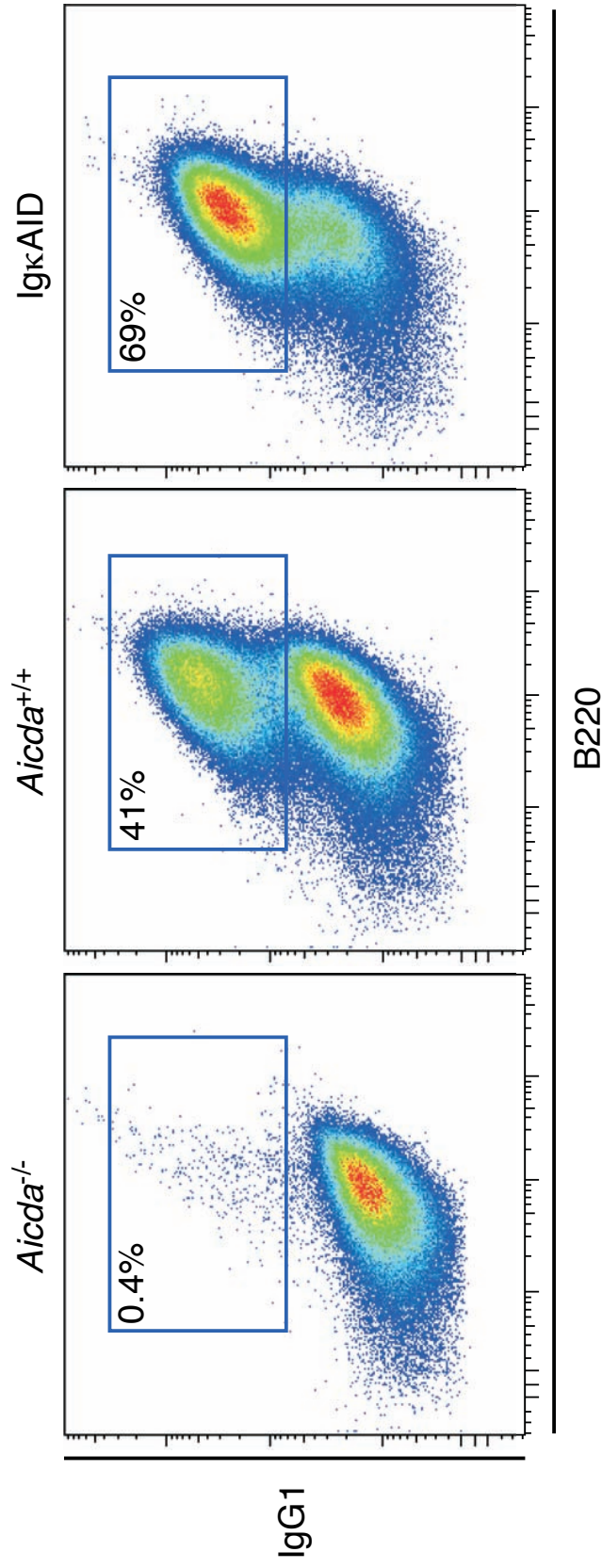


Fig S9. Flow cytometry analysis of CSR to IgG1 in *Aicda*^{-/-}, *Aicda*^{+/+}, and *IgkAID* B cells activated in the presence of LPS + IL-4 for 72 hs.

Supplementary Fig. 10

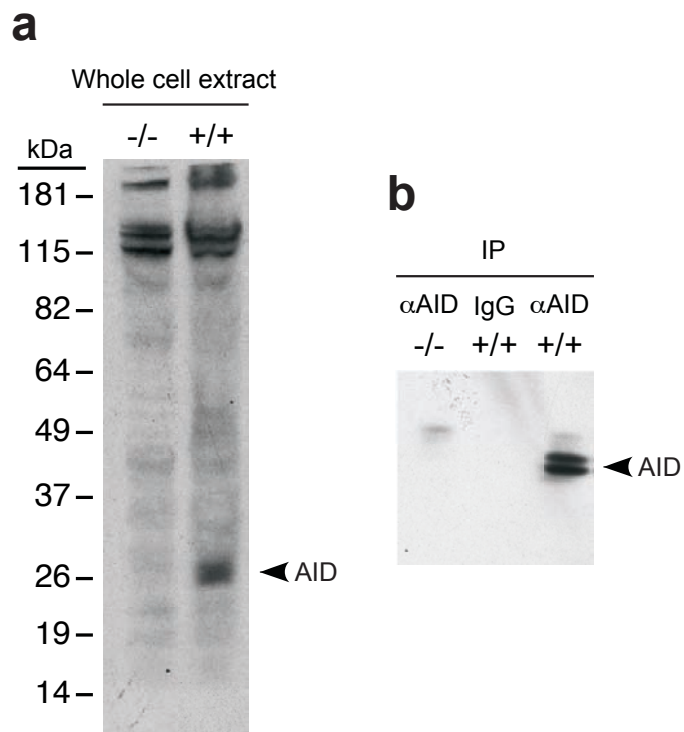


Fig. S9 (a) Specificity of anti-AID antibody 1 was confirmed by immunoblotting using whole cell extracts from *Aicda*^{-/-} or *Aicda*^{+/+}. 10% Nupage was run with MOPS buffer and Invitrogen's Benchmark was used as marker. **(b)** α-AID immunoblots of AID purified from wild-type (+/+) or AID knock-out (-/-) cells by immunoprecipitation with anti-AID (lanes 1 and 3) or IgG control (lane 2) antibodies.

Supplementary text

Sonication-hypersensitive chromatin in ChIP-Seq samples

There are several reports in the literature describing the presence of sonication-hypersensitive chromatin as revealed by ChIP studies. During the ChIP-Seq protocol DNA is sonicated to produce fragments of approximately 150 bp in length, which are isolated for further processing using agarose gels. When the protein of interest is bound to or associated with specific genomic sites, then it follows that DNA from such sites is preferentially enriched in the immunoprecipitate. Low levels of contaminating DNA fragments from across the entire genome are also invariably present. Following massive parallel sequencing and genomic alignment, enriched domains appear as islands surrounded by a sea of sequence tags originating from the contaminating DNA. If chromatin fragmentation were to be uniform (i.e. it would follow a random Poisson distribution), deep-sequencing of the immunoprecipitate from KO cells would be expected to only result in background signal, with no islands of enriched DNA. This is however not the case because some genomic sites display hypersensitivity to mechanical shearing of DNA. These sequences are thus overrepresented in the 150 bp band in the agarose gel and appear as false positive islands. It is important to point out however that in KO samples this background is not outcompeted by true signal, whereas this is certainly the case in WT cells. Thus, the contribution of either signal in islands shared between WT and MT samples cannot be accurately determined. For this reason, background KO signals were not “subtracted” from WT, but were included in **Supplementary Table 1**.

The nature of chromatin hypersensitivity to sonication is not entirely clear. The fact that some of these domains display DNaseI hypersensitivity (our unpublished observations) suggests that the presence of high-molecular-weight protein complexes at the site might play a role.

Table S1: Comparative analysis of AID, PolII, and mRNA from LPS+IL4 activated B cells
 Values are either total sequence tags, sequence tags per million sequences (TPM), or sequence tags per million sequences per kilobase (Gene length was defined as -1Kb (from TSS) to TTS
 Data is sorted based on the total α AID sequence tags
 Unclassified = genes too short to classify as either elongating or stalled
 ND = not determined

Gene	α AID Total Tags (AID+/+)	α AID Total Tags (AID-/-)	α AID TPM (AID+/+)	α PolII Total Tags	α PolII TPM	mRNA RPKM	Stalling index	Stalling class	Location	Gene length (Kb)
Igk	3426	1538	57.10167	7589	126.4833	ND	0.685839	Elongating	chr12:114656706-114667494	8.788
Hivep3	3409	0	56.81939	4566	76.1	5.97026	1.570621	Elongating	chr4:119485282-119808016	320.735
Ppp1r16b	3018	227	50.30241	10565	176.0833	22.8748	3.416629	Stalled	chr2:158490870-158592069	99.2
Vav2	2851	0	47.51894	7652	127.5333	24.3025	2.719047	Elongating	chr2:27119154-27284345	163.192
St6gal1	2820	747	47.00225	9259	154.3167	58.2934	2.020183	Elongating	chr16:23222834-23360420	135.587
gas5	2614	218	43.56875	6869	114.4833	12.0827	6.213705	Stalled	chr14:122275827-122420257	142.431
Zmiz1	2582	0	43.0354	4214	70.23333	15.4881	2.035668	Elongating	chr14:26276777-26484195	205.419
Rapgef1	2477	0	41.28531	5159	85.98333	52.8731	1.949263	Elongating	chr2:29473239-29595883	120.645
Cyth1	2463	87	41.05197	6198	103.3	41.2751	2.935254	Elongating	chr11:118025479-118111906	84.428
Sorcs2	2347	0	39.11854	1874	31.23333	0.743506	2.191467	Stalled	chr5:36359829-36742788	380.96
Il4ra	2303	74	38.38517	12346	205.7667	132.919	1.797475	Elongating	chr7:132693795-132722988	27.194
mmu-mir-142	2298	481	38.30184	7675	127.9167	ND	ND	Stalled	chr11:87561097-87573808	12.712
PAX5	2185	0	36.41841	14176	236.2667	54.0135	2.875946	Elongating	chr4:44544377-44725312	178.936
Ciita	2021	140	33.68495	6215	103.5833	42.9912	1.830687	Elongating	chr16:10486371-10527657	39.287
Sp110	2020	532	33.66828	1134	18.9	45.0276	1.613368	Elongating	chr1:87473474-87502466	26.993
Ksr1	2005	0	33.41827	1801	30.01667	5.97835	11.01727	Stalled	chr11:78828302-78961856	131.555
Igy1	1963	109	32.71833	5115	85.25	ND	0.237161	Elongating	chr12:114563457-114579593	8.788
Pik3ap1	1908	71	31.80152	7275	121.25	60.2642	2.5586	Elongating	chr19:41348707-41461560	110.854
Cd82	1901	0	31.68485	4138	68.96667	131.596	3.761664	Stalled	chr2:93259268-93304653	43.386
Snx29	1788	0	29.80143	14168	236.1333	40.2437	1.56189	Elongating	chr16:11403740-11755565	349.826
Gm13152	1779	1034	29.65142	220	3.666667	0	0	Unclassified	chr4:146547974-146887529	337.556
Rassf2	1734	177	28.90138	3617	60.28333	42.0895	3.877895	Stalled	chr2:131818586-131857724	37.139
Sema4d	1692	0	28.20135	4262	71.03333	27.3733	2.477367	Elongating	chr13:51796616-51891013	92.398
Bebp4	1677	0	27.95134	1602	26.7	0.083553	0.120007	Stalled	chr14:70238226-70459693	219.468
Rasa3	1601	0	26.68461	4521	75.35	36.7137	7.700235	Stalled	chr8:13567217-13679587	110.371
Fli1	1582	410	26.36793	8908	148.4667	21.6219	4.634234	Stalled	chr9:32229792-32350953	119.162
Grap	1550	57	25.83457	4595	76.58333	154.777	1.41632	Elongating	chr11:61464822-61486279	19.458
Sh3bp5	1539	0	25.65123	3182	53.03333	78.4109	4.048713	Stalled	chr14:32187149-32251219	62.071
Adap1	1515	0	25.25121	2877	47.95	32.0649	2.441379	Elongating	chr5:139747829-139803418	53.59
Auh	1478	65	24.63451	5308	88.46667	34.7152	3.291286	Stalled	chr13:52930478-53027046	94.569
Sema4b	1467	0	24.45117	3076	51.26667	15.6429	0.273244	Stalled	chr7:87329726-87371410	39.685
Il21r	1462	75	24.36783	5239	87.31667	115.093	3.302562	Stalled	chr7:132744942-132777084	30.143
Nfat1	1452	63	24.20116	2795	46.58333	10.2327	3.430557	Stalled	chr18:80802943-80911810	106.868
Izkf1	1444	353	24.06782	7387	123.1167	50.1722	3.142888	Stalled	chr11:11584215-11672929	86.715
Foxn3	1383	0	23.0511	6035	100.5833	5.9717	0.444238	Stalled	chr12:100433303-100690284	254.982
Prex1	1379	0	22.98443	3936	65.6	22.2186	8.719393	Stalled	chr2:166391844-166541332	147.489
Adrbk1	1361	85	22.68442	2170	36.16667	97.7743	1.680008	Elongating	chr19:4286000-4307955	19.956
Ncor2	1346	0	22.43441	4235	70.58333	14.913	4.249958	Stalled	chr5:125497524-125661584	162.061
Pisd-ps2	1329	145	22.15106	201	3.35	15.8532	13.72975	Stalled	chr17:3064317-3086183	19.867
Pip5k1c	1317	79	21.95105	2627	43.78333	45.0161	1.793373	Elongating	chr10:80753716-80782714	26.999
Prkce	1308	81	21.80104	3827	63.78333	5.88386	4.387406	Stalled	chr17:86565929-87054029	486.101
Hvcn1	1304	0	21.73437	4019	66.98333	89.9361	2.610322	Elongating	chr5:122657745-122692306	32.562
Il16	1280	214	21.33436	1800	30	22.7741	0.096677	Stalled	chr7:90791572-90886000	92.429
Bach2	1273	0	21.21768	6872	114.5333	2.60177	6.18643	Stalled	chr4:32323924-32673083	347.16
Cd83	1261	0	21.01767	4321	72.01667	111.469	2.979118	Stalled	chr13:43878475-43898501	18.027
Myh9	1257	0	20.951	4096	68.26667	100.4	7.172564	Stalled	chr15:77591018-77674545	81.528
Fam53b	1240	0	20.66766	2249	37.48333	7.53232	7.287639	Stalled	chr7:139903766-140006879	101.114
Ccdc88c	1239	0	20.65099	2762	46.03333	16.532	8.534332	Stalled	chr12:102150909-102269193	116.285
Gaint2	1224	0	20.40098	902	15.03333	10.5613	4.911231	Stalled	chr8:126753293-126869622	114.33
Sykb	1212	0	20.20097	1863	31.05	58.3982	1.83547	Elongating	chr13:52690250-52744161	51.912
Cdh23	1208	0	20.1343	2080	34.66667	0.231623	0.793251	Stalled	chr10:59766021-60161238	393.218
Csk	1198	214	19.96762	2087	34.78333	155.099	2.983027	Stalled	chr9:57474452-57494987	18.536
Itkpb	1197	61	19.95096	2960	49.33333	15.3642	4.772067	Stalled	chr1:182258606-182353790	93.185
Irf8	1189	58	19.81762	3610	60.16667	167.044	2.469762	Elongating	chr8:123258275-123280592	20.318
Ptpn1	1184	61	19.73428	2432	40.53333	36.4157	6.040814	Stalled	chr2:167755826-167804885	47.06
Akna	1180	0	19.66761	1765	29.41667	42.601	5.316529	Stalled	chr4:63028161-63066479	36.319
Phf15	1179	0	19.65094	2269	37.81667	14.5102	4.615299	Stalled	chr11:51626957-51672983	44.027
Eps15l1	1170	68	19.50093	1586	26.43333	14.2777	12.98022	Stalled	chr8:74864895-74947373	80.479
Tg	1166	277	19.43426	1469	24.48333	0.771733	0.108591	Stalled	chr15:66500331-66682282	179.952
Myo1d	1164	0	19.40093	1290	21.5	0.52427	5.987019	Stalled	chr11:80295628-80595527	297.9
Mbp	1147	0	19.11758	1141	19.01667	5.68108	5.867635	Stalled	chr18:82642514-82755029	110.516
Rftn1	1141	171	19.01758	8069	134.4833	38.5802	7.026193	Stalled	chr17:50132631-50331822	197.192

Smad3	1135	0	18.91757	1677	27.95	5.44841	14.98725	Stalled	chr9:63494573-63607801	111.229
Chst3	1134	118	18.90091	3264	54.4	16.5244	7.367028	Stalled	chr10:59644277-59684008	37.732
Tk1	1105	0	18.41755	4595	76.58333	30.5385	0.655891	Stalled	chr11:117676832-117689328	10.497
Eif2c2	1099	0	18.31754	2490	41.5	6.62379	4.000468	Stalled	chr15:72932054-73017377	83.324
Irf4	1094	844	18.23421	3298	54.96667	23.9082	2.87685	Stalled	chr13:30839126-30858796	17.671
Cbfa2t3	1087	0	18.11753	2524	42.06667	9.14096	3.2315	Stalled	chr8:125149035-125225009	73.975
Laptm5	1065	0	17.75085	5118	85.3	271.694	1.795428	Elongating	chr4:130467248-130492063	22.816
Psap	1056	0	17.60084	2182	36.36667	207.521	3.836162	Stalled	chr10:59738375-59765347	24.973
Rac2	1052	66	17.53417	2468	41.13333	158.053	2.237767	Elongating	chr15:78389598-78405213	13.616
Arid5a	1047	58	17.45084	4993	83.21667	54.5218	1.633286	Elongating	chr1:36362598-36379820	15.223
Fmnl3	1046	0	17.43417	2102	35.03333	39.0808	3.928843	Stalled	chr15:99147653-99202897	53.245
Gramd4	1032	0	17.20082	2694	44.9	26.1463	0.313105	Stalled	chr15:85886136-85968064	79.929
Cxcr5	1028	0	17.13415	2462	41.03333	37.1311	1.92232	Elongating	chr9:44319869-44336504	14.636
Apobec3	1027	0	17.11749	3424	57.06667	81.0647	2.856928	Stalled	chr15:79720837-79738859	16.023
Arhgef10	1027	77	17.11749	1491	24.85	1.05905	0.055953	Stalled	chr8:14909716-15001085	89.37
E2f2	1024	57	17.06748	2622	43.7	24.6928	2.210985	Elongating	chr4:135726308-135751971	23.664
Inpp5d	1022	153	17.03415	6320	105.3333	41.5067	4.435106	Stalled	chr1:89514886-89617083	100.198
Stk24	1018	0	16.96748	3052	50.86667	24.0106	8.826986	Stalled	chr14:121685562-121780452	92.891
mmu-mir-21	1014	366	16.90081	2445	40.75	ND	ND	Stalled	chr11:86390260-86403044	12.785
Plekha2	1013	0	16.88414	5012	83.53333	29.0029	7.353249	Stalled	chr8:26149618-26214283	62.666
Gm7120	1011	408	16.85081	62	1.033333	0	13.50885	Stalled	chr13:120274845-120284312	7.468
Trp2	1009	0	16.81747	1533	25.55	23.2703	9.085232	Stalled	chr5:112703726-112744376	38.651
Trp53i11	994	71	16.56746	2404	40.06667	75.4703	1.182775	Elongating	chr2:93025740-93041914	14.175
Nsmce1	994	0	16.56746	1469	24.48333	60.4858	10.71537	Stalled	chr7:132611154-132637056	23.903
Bckdha	977	0	16.28411	470	7.833333	13.4571	8.632655	Stalled	chr7:26414870-26445780	28.911
H2-Eb1	974	70	16.23411	2485	41.41667	592.66	1.718181	Elongating	chr17:34440811-34453619	10.809
Ubxn11	971	0	16.18411	1291	21.51667	4.34792	2.592951	Elongating	chr4:133656513-133682693	24.181
Wdfy4	971	55	16.18411	11040	184	51.892	10.76307	Stalled	chr14:33772733-34000252	225.52
Lrrflp1	969	0	16.15077	2041	34.01667	32.3571	9.755157	Stalled	chr1:92948020-93025521	75.502
Pvt1	966	142	16.10077	5495	91.58333	2.79665	5.311832	Stalled	chr15:61867541-62082530	212.99
Tspan14	961	0	16.01743	1863	31.05	9.75574	5.126285	Stalled	chr14:41719324-41782096	60.365
Agpat3	960	0	16.00777	2273	37.88333	23.0282	1.278531	Elongating	chr10:77734307-77816445	80.139
Cd22	956	0	15.9341	2203	36.71667	115.41	1.483955	Elongating	chr7:31650422-31667361	14.94
Mts1	953	0	15.88409	2412	40.2	7.10047	6.354528	Stalled	chr15:58772794-58915581	140.788
Clec16a	946	0	15.76742	1714	28.56667	3.88199	13.49196	Stalled	chr16:10543479-10744964	199.486
Pou2af1	940	804	15.66742	4424	73.73333	268.606	4.81639	Stalled	chr9:51019794-51048184	26.391
Swp70	939	0	15.65075	4500	75	109.943	4.932788	Stalled	chr7:117363216-117427019	61.804
Fbn1	936	0	15.60075	5171	86.18333	57.0172	7.927412	Stalled	chr2:30881725-30999526	115.802
Cbl2i11	933	0	15.55075	3620	60.33333	22.2864	4.594899	Stalled	chr2:127949773-127988283	36.511
Tbc1d16	931	0	15.51741	562	9.366667	0.693267	3.527441	Stalled	chr11:119004357-119091813	85.457
Capzb	915	0	15.25073	4044	67.4	151.625	7.987781	Stalled	chr4:138746845-138847727	98.883
Irak2	913	0	15.2174	1035	17.25	6.07047	4.789034	Stalled	chr6:113586460-113645020	56.561
Pou2f2	911	104	15.18406	2515	41.91667	36.994	3.031387	Stalled	chr7:25876135-25919479	41.345
Pik3cd	900	0	15.00072	3286	54.76667	51.1434	2.975907	Stalled	chr4:149023278-149077738	52.461
Upf1	895	0	14.91738	924	15.4	21.744	6.062778	Stalled	chr8:72855420-72879172	21.753
Arid3a	893	0	14.88405	2548	42.46667	29.2884	4.143407	Stalled	chr10:79387816-79417757	27.942
Notch1	889	0	14.81738	2580	43	8.29975	5.373687	Stalled	chr2:26313421-26361342	45.922
Tbc1d14	883	68	14.71737	2368	39.46667	15.6621	7.237618	Stalled	chr5:36833252-36927046	91.795
Arap1	880	0	14.66737	1694	28.23333	19.8035	4.77065	Stalled	chr7:108494582-108561100	64.519
Asb2	870	0	14.50069	443	7.383333	2.72976	0.142016	Stalled	chr12:104559351-104596211	34.861
Abcg1	865	0	14.41736	1187	19.78333	4.11312	4.662098	Stalled	chr17:31192638-31254926	60.289
Prkca	863	72	14.38402	4209	70.15	3.20009	12.14721	Stalled	chr11:107794700-108207202	410.503
Gm672	862	46	14.36736	773	12.88333	0.275791	1.022574	Unclassified	chr18:75590870-75859350	266.481
Pmpa1	847	0	14.11734	5161	86.01667	13.9593	1.900892	Elongating	chr2:173049665-173104034	52.07
Rara	846	0	14.10068	2016	33.6	7.7597	2.19016	Elongating	chr11:98797009-98836256	37.248
C130026I21Rik	844	177	14.06734	148	2.466667	15.5063	1.627622	Stalled	chr1:85242918-85269141	24.224
Sema7a	839	0	13.984	577	9.616667	22.9207	6.569704	Stalled	chr9:57785941-57810672	22.732
Cbl2i11	827	92	13.78399	850	14.16667	24.7046	5.2238	Stalled	chr2:152606403-152659418	51.016
Mobkl2a	819	0	13.65065	1731	28.85	34.8403	1.729325	Elongating	chr10:80147997-80166565	16.569
Ddx54	818	53	13.63399	1324	22.06667	60.8744	3.263538	Stalled	chr5:121061138-121078601	15.464
Pxn	818	0	13.63399	1061	17.68333	20.9597	6.094046	Stalled	chr5:115954710-116005995	49.286
Il4i1	812	0	13.53398	1882	31.36667	362.057	1.296335	Elongating	chr7:52089657-52096178	4.522
Ssbp3	807	0	13.45064	1600	26.66667	17.1668	14.45544	Stalled	chr4:106582074-106722299	138.226
Tbcd	803	0	13.38397	1950	32.5	16.0705	12.19503	Stalled	chr11:121311262-121478484	165.223
Gdpd5	794	0	13.23397	396	6.6	1.36283	12.73014	Stalled	chr7:106528058-106609494	79.437
Slc43a2	793	0	13.2173	1006	16.76667	7.43514	9.126163	Stalled	chr11:75343211-75388543	43.333
Rin3	792	0	13.20063	1150	19.16667	9.83532	8.156463	Stalled	chr12:103519283-103629062	107.78
Pikg	790	129	13.1673	1996	33.26667	127.318	3.107613	Stalled	chr2:163482121-163551894	67.774
Inf2	787	0	13.1173	1476	24.6	46.5956	4.445223	Stalled	chr12:113824994-113853768	26.775
Fam113b	787	68	13.1173	3064	51.06667	25.7457	3.953583	Stalled	chr15:97075537-97216120	138.584
Ly6e	782	194	13.03396	1583	26.38333	265.892	1.902485	Elongating	chr15:74783500-74790335	4.836
Acox1	782	55	13.03396	910	15.16667	1.18769	0.227677	Unclassified	chr2:127678363-127949626	269.264
Pde4b	781	65	13.01729	1501	25.01667	5.46719	0	Unclassified	chr4:101925543-102279867	352.325
Bzrap1	776	35	12.93395	763	12.71667	4.21914	28.49656	Stalled	chr11:87572042-87599430	25.389
3110082I17Rik	767	0	12.78395	2052	34.2	13.5159	6.26109	Stalled	chr5:139835692-13998488	100.797
Fgd2	765	0	12.75061	1284	21.4	77.7714	2.274339	Elongating	chr17:29495858-29516478	18.621
Dab2ip	762	0	12.70061	483	8.05	0.470289	0.52415	Unclassified	chr2:35411977-35586514	172.538
Rptor	761	0	12.68394	3591	59.85	6.23714	11.3323	Stalled	chr11:119462308-119760905	296.598
Nup210	756	72	12.6006	5099	84.98333	33.2369	7.427895	Stalled	chr6:90963060-91068820	103.761
Traf1	755	0	12.58394	2444	40.73333	50.9335	1.451652	Elongating	chr2:34798777-34819292	18.516
Adora3	755	152	12.58394	1177	19.61667	0	0	Stalled	chr3:105671824-105726959	53.136
Kdm4b	750	0	12.5006	926	15.43333	7.92285	21.87351	Stalled	chr17:56463472-56542296	76.825
1700017B05Rik	749	161	12.48393	2035	33.91667	47.7244	1.847178	Elongating	chr9:57100129-57112406	10.278
Sp140	749	171	12.48393	830	13.83333	48.054	9.130105	Stalled	chr1:87495277-87541611	44.335
Jakmip1	742	0	12.36726	1050	17.5	11.437	3.072538	Stalled	chr5:37440095-37516537	74.443
Gng7	741	0	12.35059	294	4.9	0.148567	2.544488	Unclassified	chr10:80411368-80479670	66.303

Unc13a	734	0	12.23392	580	9.666667	2.36851	5.57569	Stalled	chr8:74150613-74197656	45.044
AI480653	734	0	12.23392	1773	29.55	6.50396	10.00478	Stalled	chr16:30955596-31083518	125.923
Ige	730	0	12.16667	1812	30.2	ND	0.709661	Elongating	chr12:114507354-114517995	8.641
Sbk1	728	0	12.13391	597	9.95	15.4417	3.457733	Stalled	chr7:133414132-133438513	22.382
Hrh2	728	0	12.13391	1277	21.28333	8.09478	6.393549	Stalled	chr13:54285497-54317801	30.305
Dexi	726	0	12.10058	1379	22.98333	30.2044	2.197968	Elongating	chr16:10530299-10545147	12.849
Rad5111	726	93	12.10058	2843	47.38333	1.32421	18.75389	Stalled	chr12:80396268-80915677	517.41
Brd2	719	64	11.98391	3056	50.93333	64.7282	1.717668	Elongating	chr17:34248963-34260692	9.73
Coro1a	714	126	11.90057	1756	29.26667	654.577	1.481953	Elongating	chr7:133843287-133850268	4.982
Slc5a10	712	0	11.86724	1267	21.11667	0.146142	0.035783	Stalled	chr11:61486283-61536301	48.019
38968	711	51	11.85057	1282	21.36667	40.715	4.182752	Stalled	chr11:117191626-117223639	30.014
Atxn711	709	0	11.81723	3393	56.55	9.24734	7.597951	Stalled	chr12:33830557-34053142	220.586
Def6	706	0	11.76723	768	12.8	38.7986	5.865281	Stalled	chr17:28342722-28365553	20.832
Txndc5	706	534	11.76723	1499	24.98333	156.221	5.130339	Stalled	chr13:38592143-38622329	28.187
Ucp2	705	46	11.75056	1669	27.81667	103.008	2.507535	Elongating	chr7:107639853-107650682	8.83
Bcl3	705	72	11.75056	2115	35.25	50.5368	1.605424	Elongating	chr7:20393810-20410104	14.295
Erg	703	0	11.71723	462	7.7	1.53949	0.268018	Unclassified	chr16:95581810-95753972	170.163
Wipf1	702	0	11.70056	2581	43.01667	35.0033	0.258066	Stalled	chr2:73267673-73369467	99.795
Arid1b	699	0	11.65056	6081	101.35	7.66612	9.947525	Stalled	chr17:4993073-5347656	352.584
Srebfl2	698	0	11.63389	2972	49.53333	92.1292	8.460823	Stalled	chr15:81975698-82035390	57.693
Arfgf2	696	0	11.60056	1121	18.68333	7.46734	12.67435	Stalled	chr2:166629080-166723551	92.472
Zfp710	694	0	11.56722	1822	30.36667	10.143	3.437423	Stalled	chr7:87167699-87237637	67.939
Fmnl1	693	0	11.55055	907	15.11667	60.9621	3.066886	Stalled	chr11:103030451-103060214	27.764
Tmem154	693	110	11.55055	807	13.45	8.33191	7.083972	Stalled	chr3:84468113-84508497	38.385
Mad11i	693	0	11.55055	4494	74.9	11.4938	18.23482	Stalled	chr5:140484642-140799506	312.865
Cyth4	691	0	11.51722	3263	54.38333	54.4395	2.932043	Stalled	chr15:78425476-78452449	24.974
Etv6	691	65	11.51722	4534	75.56667	7.04544	12.87803	Stalled	chr6:133983724-134220165	234.442
Rbm38	690	0	11.50055	1210	20.16667	82.7853	3.292223	Stalled	chr2:172845402-172860232	12.831
Nfrsf1b	690	0	11.50055	761	12.68333	6.9288	7.801396	Stalled	chr4:144802270-144838773	34.504
Ccm2	688	0	11.46722	1433	23.88333	39.1682	16.89124	Stalled	chr11:6444958-6496747	49.79
Slc9a8	686	0	11.43388	2547	42.45	7.05965	8.304777	Stalled	chr2:167245220-167302498	55.279
Ttpal	685	196	11.41721	1480	24.66667	13.4174	3.653102	Stalled	chr2:163426049-163444749	16.701
Sik1	683	0	11.38388	1890	31.5	30.5221	1.464642	Elongating	chr17:31981194-31994737	11.544
Blk	683	0	11.38388	762	12.7	19.9123	4.737029	Stalled	chr14:63991673-64038024	44.352
Slc7a5	682	0	11.36721	2239	37.31667	34.7392	4.083035	Stalled	chr8:124405045-124433586	26.542
Sardh	682	0	11.36721	155	2.583333	0.083277	0.266904	Unclassified	chr2:27044901-27104332	57.432
Macrod1	680	0	11.33388	990	16.5	5.04528	11.17109	Stalled	chr19:7129257-7272552	141.296
Lrrc33	679	0	11.31721	1918	31.96667	28.4589	4.186251	Stalled	chr16:32142910-32167562	22.653
Osbp10	675	102	11.25054	354	5.9	0.082156	0.633062	Unclassified	chr9:114974396-115114341	164.946
Rasal1	674	0	11.23387	501	8.35	6.69093	6.506865	Stalled	chr5:121096830-121129602	30.773
Hist1h1c	673	161	11.2172	474	7.9	16.4091	0.891337	Elongating	chr13:23828675-23832235	1.561
Arhgap26	673	0	11.2172	1724	28.73333	2.12668	26.67193	Stalled	chr18:39150798-39535939	383.142
Ccbp2	668	0	11.13387	351	5.85	9.24227	0.127986	Stalled	chr9:121805581-121820182	12.602
Srebfl1	667	0	11.1172	1649	27.48333	29.9641	3.871093	Stalled	chr11:60012590-60036106	21.517
H2-Aa	666	0	11.10053	1288	21.46667	769.339	1.285648	Elongating	chr17:34419695-34426716	5.022
Actb	664	174	11.0672	1347	22.45	759.674	1.692156	Elongating	chr5:143664794-143670403	3.61
Coro2a	664	0	11.0672	1062	17.7	17.281	0.470507	Stalled	chr4:46549808-46581312	29.505
Tex14	662	243	11.03386	3660	61	0.094178	4.5206	Stalled	chr11:87216566-87369325	150.76
Csrnp1	661	72	11.01719	2266	37.76667	25.3536	0.109669	Stalled	chr9:119880283-119895776	13.494
B4gal1	658	0	10.96719	3950	65.83333	43.1031	7.444174	Stalled	chr4:40751634-40803031	49.398
Cabin1	657	0	10.95052	2812	46.86667	13.9246	14.93006	Stalled	chr10:75108854-75229102	118.249
Fads2	655	0	10.91719	773	12.88333	42.8097	14.18902	Stalled	chr19:10138653-10177993	37.341
Zdhhc14	655	0	10.91719	954	15.9	5.73797	39.87052	Stalled	chr17:5490599-5753891	261.293
Rere	654	0	10.90052	3631	60.51667	19.6835	17.6783	Stalled	chr4:149654024-149996075	340.052
Ehd1	651	0	10.85052	668	11.13333	24.467	6.433479	Stalled	chr19:6274895-6300096	23.202
Abr	650	0	10.83385	1065	17.75	2.62506	0.783652	Stalled	chr11:76230235-76393229	160.995
Trio	650	0	10.83385	1682	28.03333	1.19709	3.126312	Stalled	chr15:27660403-27957603	295.201
Zmynd8	649	0	10.81718	2920	48.66667	20.6537	7.845433	Stalled	chr2:165609653-165712188	100.536
Vgll4	647	0	10.78385	1447	24.11667	15.8321	3.506599	Stalled	chr6:114812107-114873770	59.664
Tmem189	646	0	10.76718	1117	18.61667	28.5792	3.542623	Stalled	chr2:167468724-167489044	18.321
Rxra	646	0	10.76718	655	10.91667	3.33805	1.150084	Stalled	chr2:27530720-27618839	86.12
Sh2b3	643	0	10.71718	2088	34.8	26.5668	3.582441	Stalled	chr5:122267223-122288810	19.588
Nkd1	643	0	10.71718	209	3.483333	0.436736	3.607308	Unclassified	chr8:91043242-91118785	73.544
Fam49b	642	0	10.70051	3727	62.11667	15.8401	8.955843	Stalled	chr15:63760649-63894010	131.362
Dnajb12	640	0	10.66718	923	15.38333	17.2416	3.984153	Stalled	chr10:59340338-59360764	18.427
Scl12a3	640	0	10.66718	402	6.7	0.206105	0.575533	Stalled	chr8:96851107-96890119	37.013
Lrp1	639	0	10.65051	176	2.933333	0.309772	3.178083	Unclassified	chr10:126975213-127060204	82.992
Nfat2	639	0	10.65051	857	14.28333	1.67054	9.892383	Stalled	chr2:168301909-168417783	113.875
Ldlrap1	638	0	10.63384	242	4.033333	5.28229	4.833365	Stalled	chr4:134301326-134325919	22.594
Snx8	638	0	10.63384	1834	30.56667	71.4947	5.961576	Stalled	chr5:140816256-140867201	48.946
Lhpp	638	0	10.63384	505	8.416667	6.5145	19.91075	Stalled	chr7:139800325-139898102	95.778
Traf5	636	66	10.60051	824	13.73333	12.0398	16.95332	Stalled	chr1:193821087-193918445	95.359
Afmid	633	0	10.55051	719	11.98333	5.54923	6.050978	Stalled	chr11:117685232-117701220	13.989
Gse1	633	0	10.55051	1981	33.01667	5.9349	3.179334	Stalled	chr8:123010765-123105281	92.517
Nfkb1	633	71	10.55051	11759	195.9833	90.8503	2.927395	Elongating	chr3:135247618-135356511	106.894
Mgll	632	0	10.53384	393	6.55	4.97755	8.095613	Stalled	chr6:88672405-88778353	103.949
Plekho2	631	59	10.51717	1902	31.7	30.178	3.326766	Stalled	chr9:65402190-65429841	25.652
Ppp2r5c	630	0	10.5005	1809	30.15	23.5701	14.40823	Stalled	chr12:111721948-111821271	97.324
Foxp1	630	142	10.5005	4807	80.11667	11.4778	0.506304	Stalled	chr6:98880083-99115012	232.93
Map3k14	628	0	10.46717	2133	35.55	9.66992	5.242407	Stalled	chr11:103081077-103130715	47.639
Pml	626	46	10.43383	3114	51.9	46.6166	2.24077	Elongating	chr9:58064986-58099593	32.608
Ninj2	626	0	10.43383	883	14.71667	0.202691	0.857143	Stalled	chr6:120041397-120150356	106.96
Zc3h12d	625	68	10.41717	1474	24.56667	13.7075	3.299482	Stalled	chr10:7550267-7590194	37.928
Hdac7	625	0	10.41717	1462	24.36667	22.2347	2.98872	Stalled	chr15:97623111-97664102	38.992
Fam102a	623	0	10.38383	411	6.85	10.2309	17.88402	Stalled	chr2:32388878-32425270	34.393
Lpp	623	0	10.38383	4681	78.01667	0.81611	28.44265	Stalled	chr16:24391435-24992662	599.228

Mical3	621	0	10.3505	862	14.36667	2.43338	1.176608	Stalled	chr6:120957257-121033627	74.371
Aff3	621	0	10.3505	16353	272.55	16.7907	11.44357	Stalled	chr1:38234171-38723800	487.63
Rab8a	619	45	10.31716	1039	17.31667	60.3261	6.829101	Stalled	chr8:74683098-74705265	20.168
Phc2	617	0	10.28383	1575	26.25	23.8409	0.115619	Stalled	chr4:128380239-128430118	47.88
Zdhhc18	615	0	10.25049	1082	18.03333	39.9179	1.493116	Elongating	chr4:133162906-133191344	26.439
Ptpn6	613	0	10.21716	1421	23.68333	126.082	2.425542	Elongating	chr6:124670735-124685163	12.429
Sla	613	210	10.21716	680	11.33333	10.0575	4.410335	Stalled	chr15:66612425-66646155	31.731
H2-Ab1	611	0	10.18382	1465	24.41667	1402.72	1.604188	Elongating	chr17:34398184-344006355	6.172
Dido1	610	0	10.16715	1750	29.16667	13.9313	5.894213	Stalled	chr2:180392668-180446704	52.037
Tnip1	610	0	10.16715	1516	25.26667	16.9938	1.697317	Elongating	chr11:54724288-54778440	52.153
Zfpm1	608	0	10.13382	961	16.01667	9.86931	2.718438	Elongating	chr8:124804040-124861147	55.108
Slc45a4	607	0	10.11715	258	4.3	2.85993	0.432436	Stalled	chr15:73410722-73457174	44.453
Cyfp2	607	0	10.11715	3790	63.16667	25.9892	5.893502	Stalled	chr11:46007359-46127852	118.494
Cxxc5	605	0	10.08382	639	10.65	2.87659	0.967815	Stalled	chr18:35987471-36021342	31.872
Cerk	605	0	10.08382	1129	18.81667	20.0981	3.526348	Stalled	chr15:85969532-86018571	47.04
Sbno2	604	0	10.06715	2603	43.38333	24.6825	3.578319	Stalled	chr10:79519758-79567447	45.69
Ralgds	602	0	10.03381	741	12.35	10.6292	2.034411	Elongating	chr2:28386983-28408601	19.619
Rab35	599	0	9.983812	2567	42.78333	139.883	2.624657	Elongating	chr5:116079995-116097167	15.173
Med13l	598	0	9.967144	4801	80.01667	5.34768	4.518319	Stalled	chr5:119008727-119215446	204.72
Cacna1d	598	81	9.967144	1326	22.1	0.250544	4.562468	Stalled	chr14:30853124-31306342	451.219
Myo18a	597	0	9.950477	1228	20.46667	8.48402	0.066669	Stalled	chr11:77588766-77679482	88.717
Taok3	597	0	9.950477	2810	46.83333	20.176	6.32998	Stalled	chr5:117581603-117723924	140.322
Ildr1	596	0	9.933809	780	13	2.60055	0.898374	Stalled	chr16:36692123-36726827	32.705
Stoml1	594	0	9.900474	585	9.75	23.6435	4.396366	Stalled	chr9:58098970-58110330	9.361
Bcl2	594	122	9.900474	1372	22.86667	20.3921	13.69562	Stalled	chr1:108434755-108612867	176.113
Dock2	594	82	9.900474	8844	147.4	24.5221	16.63428	Stalled	chr11:34126863-34599325	470.463
Adora2a	593	0	9.883807	342	5.7	6.32611	5.070339	Stalled	chr10:74777687-74797533	17.847
H13	593	0	9.883807	1731	28.85	60.1825	5.334374	Stalled	chr2:152493196-152534404	39.209
Cpne5	593	0	9.883807	307	5.116667	0.33171	0.62182	Unclassified	chr17:29293465-29376735	81.271
Nod2	592	62	9.867139	374	6.233333	2.01595	3.682191	Stalled	chr8:91169245-91212373	41.129
Trpm8	592	255	9.867139	91	1.516667	0.070016	0.471364	Unclassified	chr1:90201286-90285426	82.141
Gimap4	591	78	9.850472	1009	16.81667	129.92	1.066644	Elongating	chr6:48632576-48642061	7.486
Card11	591	0	9.850472	4685	78.08333	41.7957	3.446769	Stalled	chr5:141348952-141478550	127.599
Cyb5r3	589	0	9.817137	1158	19.3	125.998	6.973504	Stalled	chr15:82983931-83004638	18.708
Ubash3b	588	0	9.80047	945	15.75	3.60389	3.939542	Stalled	chr9:40821723-40967577	143.855
Rnf123	587	0	9.783802	1054	17.56667	11.1763	0.509034	Stalled	chr9:107954170-107982134	25.965
Pold1	586	0	9.767135	629	10.48333	25.3967	6.084683	Stalled	chr7:51788113-51806185	16.073
Prr5	586	0	9.767135	1357	22.61667	36.6259	2.37418	Elongating	chr15:84509427-84534103	22.677
Blnk	586	61	9.767135	3786	63.1	53.1406	3.657857	Stalled	chr19:41003416-41071025	65.61
4831426I19Rik	584	0	9.7338	1400	23.33333	7.50043	10.82521	Stalled	chr12:106168158-106250019	79.862
Lasp1	583	0	9.717132	540	9	25.002	13.77223	Stalled	chr11:97658985-97700078	39.094
Msi2	582	62	9.700465	6140	102.3333	3.96942	14.06841	Stalled	chr11:88152883-88581543	426.661
Vav1	581	0	9.683797	1834	30.56667	26.8699	8.219509	Stalled	chr17:57416522-57486859	50.138
Zfp217	574	0	9.567125	1753	29.21667	18.1559	2.772495	Elongating	chr2:169934142-169958720	22.579
Ptp4a3	573	0	9.550458	933	15.55	64.0996	2.43875	Elongating	chr15:73576455-73589196	10.742
Grk6	573	0	9.550458	1162	19.36667	69.3059	2.480888	Elongating	chr13:55544694-55562288	15.595
Tbc1d17	571	0	9.517123	631	10.51667	7.86004	1.293214	Elongating	chr7:52096145-52106449	8.305
Fam65b	571	0	9.517123	2579	42.98333	11.5943	3.330511	Stalled	chr13:24704478-24825675	119.198
Pim1	569	164	9.483788	1848	30.8	139.598	1.73068	Elongating	chr17:29625989-29632404	4.416
Ap3d1	569	0	9.483788	953	15.88333	21.7824	3.086312	Stalled	chr10:80169722-80206956	35.235
Dnajc7	569	0	9.483788	1516	25.26667	81.5361	3.206628	Stalled	chr11:100444149-100483482	37.334
Rnf220	569	0	9.483788	1620	27	20.8392	0.486763	Stalled	chr4:116944068-117171520	225.453
Gpr183	567	84	9.450453	2310	38.5	17.1015	0.756234	Stalled	chr14:122351552-122366415	12.864
Relt	566	0	9.433785	974	16.23333	9.08038	5.803493	Stalled	chr7:107994361-108013927	17.567
Foxk1	565	0	9.417118	1267	21.11667	9.306	5.204837	Stalled	chr5:142875450-142937969	60.52
Trappc9	565	0	9.417118	1999	33.31667	5.4179	22.67572	Stalled	chr15:72420050-72893634	471.585
Dnmt3a	564	0	9.40045	2578	42.96667	13.3847	3.450391	Stalled	chr12:3804979-3914443	107.465
Chd5	562	0	9.367116	178	2.966667	0.109644	1.32696	Unclassified	chr4:151710759-151764303	51.545
Camk2b	562	54	9.367116	2030	33.83333	0.950389	0.134108	Stalled	chr11:5869669-5967661	95.993
Gfnd1	562	0	9.367116	307	5.116667	1.47133	10.64464	Stalled	chr13:43290887-43401541	108.655
Zc3h12a	561	0	9.350448	1277	21.28333	22.3798	2.365184	Elongating	chr4:124795657-124807125	9.469
Pole2	561	0	9.350448	2184	36.4	13.6075	4.152276	Stalled	chr12:70302765-70331177	26.413
Agbl4	560	0	9.333781	2440	40.66667	0.078409	0	Unclassified	chr4:110068395-111330115	1259.721
Abli2	559	0	9.317113	265	4.416667	0.277302	2.900895	Unclassified	chr5:36098579-36227619	127.041
Slit1	559	0	9.317113	373	6.216667	0.37436	1.936007	Unclassified	chr19:41674746-41820346	143.601
Pgs1	554	0	9.233776	1310	21.83333	14.4263	3.572207	Stalled	chr11:117846170-117885325	37.156
Fam107b	554	72	9.233776	1602	26.7	24.1402	9.120052	Stalled	chr2:3628729-3699406	68.678
Pstpip1	553	0	9.217108	919	15.31667	28.3571	8.439725	Stalled	chr9:55935782-55976697	38.916
Panx1	553	79	9.217108	1145	19.08333	16.9217	7.649462	Stalled	chr9:14810228-14851922	39.695
Rai1	553	0	9.217108	2640	44	10.017	1.602398	Elongating	chr11:59916514-60012697	94.184
Slamf6	551	132	9.183773	1345	22.41667	21.5319	5.379643	Stalled	chr1:173845667-173873999	26.333
Gna15	549	0	9.150438	707	11.78333	18.2391	3.907291	Stalled	chr10:80965058-80988970	21.913
Scd2	548	0	9.133771	1520	25.33333	110.468	3.054581	Stalled	chr19:44366165-44381352	13.188
Vars	547	0	9.117104	2052	34.2	114.803	3.511028	Stalled	chr17:35135851-35153274	15.424
Snx30	547	0	9.117104	2088	34.8	6.91735	12.02541	Stalled	chr4:59816521-59917612	99.092
Spib	546	0	9.100436	691	11.51667	96.3278	2.443878	Elongating	chr7:51781364-51789441	6.078
D8ErtD82e	545	0	9.083769	3848	64.13333	33.2153	3.6906	Stalled	chr8:37155881-37210841	52.961
Bin1	545	0	9.083769	868	14.46667	31.7819	0.994463	Stalled	chr18:32534870-32595394	58.525
Ikzf3	545	123	9.083769	3419	56.98333	36.5862	6.290661	Stalled	chr11:98326006-98409345	81.34
St3gal1	544	0	9.067101	920	15.33333	4.78304	14.18994	Stalled	chr15:66934436-67010444	74.009
Eef2	541	0	9.017099	1393	23.21667	1295.41	1.504007	Elongating	chr10:80637375-80645252	5.878
Hnrrpl	541	0	9.017099	1988	33.13333	96.0545	2.077285	Elongating	chr7:29593908-29607285	11.378
Sh3bp2	541	0	9.017099	1586	26.43333	22.2045	4.156036	Stalled	chr5:34866432-34906287	37.856
Gpr132	540	0	9.000431	796	13.26667	20.6538	3.055026	Stalled	chr12:114089086-114101127	10.042
Nup62	540	0	9.000431	1365	22.75	76.3839	4.613578	Stalled	chr7:52069789-52086176	14.388
Klf13	540	0	9.000431	1851	30.85	11.8448	11.38321	Stalled	chr7:71031237-71085801	52.565

Tcof1	539	0	8.983764	2571	42.85	48.4431	1.806537	Elongating	chr18:60974195-61010562	34.368
Atp2b2	539	0	8.983764	520	8.666667	0.101813	0.72449	Unclassified	chr6:113695661-113994020	296.36
Tlr9	537	65	8.950429	264	4.4	13.0315	2.589345	Stalled	chr9:106122928-106129207	4.28
Wpp5c	537	0	8.950429	1319	21.983333	63.1984	2.225186	Elongating	chr7:17589991-17615263	23.273
Wwox	537	0	8.950429	2553	42.55	4.96958	30.53313	Stalled	chr8:116961551-117876612	913.062
Snn	536	0	8.933761	674	11.233333	39.0953	3.609388	Stalled	chr16:11064390-11075078	8.689
Fam169b	536	53	8.933761	2713	45.21667	11.9505	0.06301	Stalled	chr7:75416724-75507976	89.253
Sorl1	533	0	8.883759	2042	34.033333	8.76738	8.244637	Stalled	chr9:41776571-41934372	155.802
Kcnn4	532	0	8.867092	980	16.333333	45.4715	2.947331	Stalled	chr7:25153281-25170230	14.95
Gns	532	0	8.867092	889	14.81667	14.849	5.620847	Stalled	chr10:120800145-120834301	32.157
Camkk1	529	0	8.817089	226	3.766667	2.33134	1.689602	Elongating	chr11:72830509-72855567	23.059
Birc3	527	0	8.783754	2492	41.533333	32.589	3.032464	Stalled	chr9:7848700-7875170	24.471
Bcl11a	527	0	8.783754	3586	59.76667	31.2485	2.233892	Elongating	chr11:23976055-24073558	95.504
Chst11	527	0	8.783754	2988	49.8	5.37755	12.57399	Stalled	chr10:82446241-82658636	210.396
Hemk1	522	0	8.700417	1484	24.733333	8.06521	1.50517	Elongating	chr9:107229412-107242681	11.27
Nfkbil1	521	0	8.683749	519	8.65	13.399	5.761953	Stalled	chr17:35357119-35374760	15.642
Bid2	521	0	8.683749	407	6.7833333	9.97644	19.40774	Stalled	chr13:49434917-49482394	45.478
Ppp3cc	521	160	8.683749	2152	35.86667	27.9438	13.39602	Stalled	chr14:70617704-70691256	71.553
Stat3	520	0	8.667082	1577	26.283333	49.6181	9.840916	Stalled	chr11:100748123-100802825	52.703
Ptpns	520	0	8.667082	359	5.9833333	3.80721	3.884451	Stalled	chr17:56551848-56617903	64.056
mmu-mir-29a	520	0	8.667082	4730	78.833333	ND	ND	Stalled	chr6:30997688-31082102	84.415
A430084P05Rik	518	0	8.633747	127	2.116667	2.18566	3.214183	Stalled	chr11:70604433-70628063	21.631
Bcar3	518	63	8.633747	6745	112.4167	36.3802	5.410724	Stalled	chr3:122120697-122233098	110.402
Tcx2	517	0	8.61708	898	14.96667	1.70613	11.54806	Stalled	chr11:106363452-106476244	110.793
Mgat5	517	0	8.61708	1969	32.81667	6.21227	12.08592	Stalled	chr1:129099562-129379549	277.988
Kcnn5	516	72	8.600412	807	13.45	0.04701	13.69182	Stalled	chr14:20959279-21003004	41.726
Myo1c	515	0	8.583745	1804	30.06667	35.7396	3.780473	Stalled	chr11:75463010-75488136	23.127
Slc2a6	514	0	8.567077	887	14.783333	62.2112	2.001148	Elongating	chr2:26876884-26885518	6.635
BC013712	514	66	8.567077	2039	33.983333	48.6913	2.180836	Elongating	chr4:132338271-132354279	14.009
Heg1	513	0	8.55041	1665	27.75	5.73957	6.863754	Stalled	chr16:33682551-33768281	83.731
Bcr	513	0	8.55041	696	11.6	3.63617	6.759596	Stalled	chr10:74521640-74647668	124.029
Pag1	513	0	8.55041	2130	35.5	8.20912	14.31676	Stalled	chr3:9691897-9835630	141.734
Lat2	512	0	8.533742	842	14.033333	51.126	5.081051	Stalled	chr5:135076134-135092893	14.76
Camk2d	512	133	8.533742	3413	56.883333	16.3013	22.20996	Stalled	chr3:126297890-126547972	248.083
Cd97	511	0	8.517075	1320	22	6.19234	1.824796	Elongating	chr8:86247149-86267210	18.062
IL17ra	511	0	8.517075	791	13.183333	21.3975	5.44582	Stalled	chr6:120411214-120433744	20.531
Il6ra	511	0	8.517075	633	10.55	5.35621	6.085227	Stalled	chr3:89673245-89719084	43.84
Cnp	510	88	8.500407	811	13.51667	76.4159	1.974383	Elongating	chr11:100434252-100443052	6.801
Btbd19	509	0	8.48374	833	13.883333	17.5092	1.051199	Elongating	chr4:116791822-116800330	6.509
Fcer2a	509	0	8.48374	1290	21.5	182.918	0.88774	Stalled	chr8:3681736-3696174	12.439
Dedd2	509	0	8.48374	318	5.3	14.8607	4.844369	Stalled	chr7:25987858-26006878	17.021
Fgd3	507	0	8.450405	795	13.25	6.0114	5.368409	Stalled	chr13:49358478-49406577	46.1
Pde2a	507	0	8.450405	371	6.1833333	4.74979	2.150001	Unclassified	chr7:108568211-108661340	91.13
Slc23a2	507	0	8.450405	1481	24.683333	11.0882	4.136167	Stalled	chr2:131878231-131972844	92.614
Csnk1g2	506	0	8.433737	631	10.51667	36.1783	6.529788	Stalled	chr10:80083524-80103516	17.993
Scamp4	504	0	8.400403	595	9.916667	0	6.276061	Stalled	chr10:80063626-80078528	12.903
Slc1a1	504	0	8.400403	1135	18.91667	8.38524	8.152084	Stalled	chr15:76001404-76061927	58.524
Clk3	502	0	8.367068	898	14.96667	29.1096	2.420165	Elongating	chr9:57598517-57615667	15.151
Fam83f	501	0	8.3504	478	7.966667	1.36563	2.018395	Elongating	chr15:80500276-80530855	28.58
Polm	500	0	8.333733	361	6.016667	6.9899	6.802992	Stalled	chr11:5727863-5740019	10.157
Txnp	499	199	8.317065	204	3.4	35.4395	3.12779	Stalled	chr3:96359879-96365780	3.902
Zcchc24	498	0	8.300398	611	10.183333	2.33176	3.875837	Stalled	chr14:26531125-26590342	57.218
Cd79b	497	116	8.28373	468	7.8	500.876	1.984177	Elongating	chr11:106172654-106177843	3.19
Bmf	495	0	8.250395	198	3.3	2.41219	1.097066	Stalled	chr2:118354492-118377414	20.923
Syvn1	494	82	8.233728	1618	26.96667	70.24	2.39798	Elongating	chr19:6044575-6053717	7.143
9030617003Rik	494	0	8.233728	419	6.9833333	3.59923	20.07136	Stalled	chr12:102015332-102110820	93.489
Myo3b	494	0	8.233728	987	16.45	0.206847	0.848221	Unclassified	chr2:69875182-70267252	390.071
Gpr157	493	0	8.21706	239	3.9833333	4.80178	9.174226	Stalled	chr4:149459611-149480036	18.426
Tcf7	493	0	8.21706	186	3.1	0.720342	0.26693	Stalled	chr11:52066105-52097752	29.648
Pfxnd1	493	0	8.21706	865	14.41667	13.6607	3.251176	Stalled	chr6:115904828-115947023	40.196
Usp36	492	0	8.200393	1365	22.75	13.0657	7.87229	Stalled	chr11:118120967-118153558	30.592
Tbc1d22a	491	0	8.183725	2077	34.61667	10.0085	31.42229	Stalled	chr15:86042888-86328933	284.046
Anks1	490	0	8.167058	1048	17.46667	3.23201	9.389378	Stalled	chr17:28044284-28199581	153.298
Syng2	489	0	8.150391	1218	20.3	391.45	1.476119	Elongating	chr11:117668980-117675600	4.621
Ets1	489	137	8.150391	1871	31.183333	14.9727	12.1448	Stalled	chr9:32501626-32565405	61.78
Itpk1	489	0	8.150391	1837	30.61667	8.58228	5.967717	Stalled	chr12:103806792-103945079	136.288
Cdc57	488	0	8.133723	394	6.566667	1.71231	17.71945	Stalled	chr11:120687855-120796186	106.332
Sh3gl1	487	0	8.117056	1410	23.5	30.0898	3.043941	Stalled	chr17:56156172-56177999	19.828
Chd7	487	0	8.117056	2877	47.95	7.95518	5.042882	Stalled	chr4:8616067-8793956	175.89
Katnb1	486	0	8.100388	147	2.45	6.15859	9.659936	Stalled	chr8:97603100-97623774	18.675
Slc24a1	486	0	8.100388	622	10.36667	0.100539	0	Stalled	chr9:64770667-64801414	28.748
Snx20	485	10	8.083721	795	13.25	82.783	2.64572	Elongating	chr8:91150726-91162027	9.302
Xrcc3	484	0	8.067053	963	16.05	10.977	1.994191	Elongating	chr12:113041403-113054052	10.65
Lsm4	483	0	8.050386	631	10.51667	146.385	1.971402	Elongating	chr8:73195129-73202651	5.523
Ggta1	482	98	8.033718	2152	35.86667	10.9651	5.201579	Stalled	chr2:35255699-35318945	61.247
Myo9b	482	0	8.033718	1917	31.95	16.3727	14.19611	Stalled	chr8:73794612-73884611	88
Sbf1	479	0	7.983716	417	6.95	17.6894	12.41782	Stalled	chr15:89118667-89147742	27.076
A830007P12Rik	478	0	7.967048	497	8.2833333	18.4599	1.511507	Elongating	chr2:25048239-25054133	3.895
Stat1	478	0	7.967048	1712	28.533333	20.5141	4.34724	Stalled	chr1:52174281-52218707	42.427
Ttc25	476	0	7.933713	211	3.516667	0.777712	14.77766	Stalled	chr11:100404945-100433880	26.936
Inpp5a	476	0	7.933713	1287	21.45	2.43625	11.8101	Stalled	chr7:146573007-146765551	190.545
Rnf167	475	36	7.917046	1116	18.6	28.234	0.939952	Elongating	chr11:70459090-70464916	3.827
Aldh3b1	475	0	7.917046	486	8.1	17.8325	1.245557	Elongating	chr19:3913490-3931716	16.227
Zfp423	475	0	7.917046	1006	16.76667	0.135671	0.911237	Unclassified	chr8:90185708-90485494	297.787
Abi3	474	0	7.900379	327	5.45	8.87318	6.921479	Stalled	chr11:95691385-95705753	12.369
Sidt2	473	0	7.883711	794	13.233333	23.6644	5.1126	Stalled	chr9:45745957-45765332	17.376

Pati2	473	0	7.883711	2966	49.43333	0.052655	0	Stalled	chr2:121945843-122013925	66.083
Tmem108	473	0	7.883711	1393	23.21667	2.36964	7.615299	Stalled	chr9:103386768-103666130	277.363
Gimap1	472	105	7.867044	986	16.43333	92.9775	1.462491	Elongating	chr6:48687045-48693794	4.75
Gnai2	472	0	7.867044	1151	19.18333	189.772	5.072177	Stalled	chr9:107516468-107539673	21.206
Strn4	472	0	7.867044	788	13.13333	16.1204	2.812764	Elongating	chr7:17399237-17426279	25.043
Mapre2	472	71	7.867044	1667	27.78333	32.0766	13.16264	Stalled	chr18:23960470-24052362	89.893
Camk2a	471	0	7.850376	788	13.13333	3.37545	3.910656	Stalled	chr18:61083285-61147806	62.522
Mef2d	470	0	7.833709	1437	23.95	28.3597	4.598806	Stalled	chr3:87944316-87973089	26.774
Tor3a	469	0	7.817041	1375	22.91667	20.308	4.525397	Stalled	chr1:158583747-158606470	20.724
Kdm6b	468	0	7.800374	1155	19.25	3.32957	0.121104	Stalled	chr11:69212019-69229177	15.159
Grb2	468	0	7.800374	3405	56.75	92.7981	5.214043	Stalled	chr11:115505457-115571911	64.455
Rap1gap2	467	0	7.783706	834	13.9	1.57111	1.384795	Unclassified	chr11:74196984-74405660	206.677
Tap1	466	0	7.767039	1080	18	102.38	4.834608	Stalled	chr17:34322500-34334170	9.671
Hip1r	466	0	7.767039	1634	27.23333	36.2276	3.198248	Stalled	chr5:124421636-124453223	29.588
Rgs10	466	0	7.767039	225	3.75	5.18471	4.702758	Stalled	chr7:135517138-135563686	44.549
D4300042009Rik	466	0	7.767039	534	8.9	1.74485	50.49355	Stalled	chr7:132849389-133018311	166.923
Ccr7	465	0	7.750371	447	7.45	18.0689	3.632989	Stalled	chr11:99005512-99018391	10.88
Jag2	465	0	7.750371	128	2.133333	2.02611	0.942139	Stalled	chr12:114146800-114169706	20.907
Gimap5	464	121	7.733704	896	14.93333	45.3107	4.638944	Stalled	chr6:48694195-48704199	8.005
Qprt	464	0	7.733704	102	1.7	0.214141	0.115052	Stalled	chr7:134251283-134267543	14.261
Xylt1	461	0	7.683702	3518	58.63333	5.05892	4.956577	Stalled	chr7:124522492-124811144	286.653
Ranbp3	460	0	7.667034	1301	21.68333	31.966	8.520087	Stalled	chr17:56810679-56851192	38.514
Tspan18	460	0	7.667034	742	12.36667	0.283473	1.206131	Stalled	chr2:93041916-93176644	132.729
Hist1h1e	459	168	7.650367	325	5.416667	0	1.896671	Unclassified	chr13:23712497-23716427	1.931
Cyba	459	0	7.650367	750	12.5	314.713	5.890825	Stalled	chr8:124948670-124958840	8.171
Rassf5	459	0	7.650367	1011	16.85	9.99188	2.073111	Elongating	chr1:133072986-133143755	68.77
Aicda	456	81	7.600364	2690	44.83333	73.0521	1.847257	Elongating	chr6:122501826-122514198	10.373
Smarcb1	456	0	7.600364	719	11.98333	39.3718	10.46531	Stalled	chr10:75359513-75386359	24.847
Mkl1	455	0	7.583697	1946	32.43333	16.2155	12.11894	Stalled	chr15:80842710-81023187	178.478
Pfkfb3	454	0	7.567029	375	6.25	7.9357	7.982784	Stalled	chr2:11393061-11425694	30.634
Synj2	454	0	7.567029	495	8.25	2.08119	5.980483	Stalled	chr17:5939279-6044290	103.012
Mef2b	453	0	7.550362	671	11.18333	33.4439	5.246796	Stalled	chr8:72674676-72691387	14.712
Tm6sf1	453	0	7.550362	365	6.083333	7.711	4.944994	Stalled	chr7:89001907-89028954	25.048
Epb4.111	453	0	7.550362	222	3.7	0.197623	1.412316	Unclassified	chr2:156244787-156368950	122.164
Ralgps1	453	0	7.550362	763	12.71667	2.26049	12.18493	Stalled	chr2:32992492-33228998	234.507
Ubash3a	452	0	7.533694	188	3.133333	0.121523	0.451872	Stalled	chr17:31343010-31379348	34.339
Nudcd3	452	0	7.533694	1118	18.63333	18.8637	14.85601	Stalled	chr11:6005695-6102454	94.76
Dock10	452	76	7.533694	10443	174.05	37.6661	8.078376	Stalled	chr1:80497647-80757128	257.482
Tmc8	451	0	7.517027	794	13.23333	34.1691	4.395053	Stalled	chr11:117642363-117654342	9.98
Mgrn1	450	0	7.500359	898	14.96667	19.7428	6.293037	Stalled	chr16:4884251-4938296	52.046
Itsn1	450	0	7.500359	681	11.35	3.7018	21.3962	Stalled	chr16:91727615-91920824	191.21
Selpg	449	0	7.483692	1183	19.71667	46.151	7.220682	Stalled	chr5:114267806-114282510	12.705
Sic1a2	448	0	7.467024	650	10.83333	0.93599	0.167843	Stalled	chr2:102496839-102630941	132.103
Rhof	447	49	7.450357	761	12.68333	35.3981	4.637372	Stalled	chr5:123568188-123584638	14.451
Ahrgef1	446	56	7.43369	1213	20.21667	87.4519	7.025768	Stalled	chr7:25686004-25711610	23.607
Plxna1	446	0	7.43369	470	7.833333	1.89815	4.131685	Stalled	chr6:89266309-89314607	46.299
Wsf2	446	0	7.43369	1513	25.21667	19.3674	9.035637	Stalled	chr4:132684547-132754245	67.699
Tbxas1	446	0	7.43369	1338	22.3	5.34428	2.738512	Elongating	chr6:38866984-39034578	165.595
Akap13	446	70	7.43369	2537	42.28333	6.73619	17.66334	Stalled	chr7:82598419-82899495	299.077
Bid	445	92	7.417022	1363	22.71667	17.3219	5.046192	Stalled	chr6:120843136-120868838	23.703
Herpud1	444	99	7.400355	678	11.3	54.1396	7.758464	Stalled	chr8:96908399-96919258	8.86
Gm5544	444	0	7.400355	318	5.3	0.043153	0.303919	Stalled	chr3:97732095-97770941	36.847
Hivep2	444	0	7.400355	909	15.15	1.26706	15.48772	Stalled	chr10:13684184-13871184	185.001
Uba7	443	0	7.383687	617	10.28333	20.4443	1.487426	Elongating	chr9:107875897-107886387	8.491
Pik3r2	443	0	7.383687	575	9.583333	14.7494	2.728537	Stalled	chr8:73292079-73302611	8.533
mmu-mir-34a	443	0	7.383687	901	15.01667	ND	ND	Stalled	chr4:149425095-149456128	31.034
Cib1	442	0	7.36702	403	6.716667	45.6419	3.041599	Stalled	chr7:87372045-87379502	5.458
Tnfrsf13b	442	0	7.36702	1857	30.95	62.0562	0.39292	Stalled	chr11:60952336-60961144	6.809
Fam105b	442	0	7.36702	1524	25.4	43.3664	6.23621	Stalled	chr15:27535675-27562448	24.774
Ralgps2	442	108	7.36702	2323	38.71667	10.4264	15.37503	Stalled	chr1:158734297-158871757	135.461
Hmha1	441	0	7.350352	798	13.3	101.796	3.332092	Stalled	chr10:79477416-79494216	14.801
Scn4a	441	0	7.350352	649	10.81667	14.2168	0.0439	Stalled	chr11:106179906-106212704	30.799
Coro1c	441	0	7.350352	907	15.11667	19.7569	11.88212	Stalled	chr5:114292447-114360715	66.269
Rreb1	441	0	7.350352	2823	47.05	5.04789	12.54761	Stalled	chr13:37915906-38043871	125.966
Map3k5	441	51	7.350352	1945	32.41667	6.70291	14.53896	Stalled	chr10:19652331-19862556	208.226
Syt2	440	0	7.333685	229	3.816667	0.526023	1.230436	Unclassified	chr1:136541257-136645994	102.738
Adam19	439	65	7.317017	2153	35.88333	20.1947	6.081915	Stalled	chr11:45867488-45960844	91.357
2310014H01Rik	438	0	7.30035	1101	18.35	79.0162	2.15747	Elongating	chr17:36000539-36012541	10.003
mmu-mir-155	438	0	7.30035	3243	54.05	ND	ND	Stalled	chr16:84705128-84719542	14.415
Txnrc11	438	0	7.30035	1057	17.61667	17.5823	28.63829	Stalled	chr16:11075003-11136625	59.623
Pnk4	438	53	7.30035	611	10.18333	17.4265	13.9575	Stalled	chr1:74329607-74400266	68.66
Sipa1l3	438	0	7.30035	2259	37.65	3.81608	1.959075	Elongating	chr7:30105396-30292479	185.084
Mybbp1a	437	56	7.283682	984	16.4	72.4254	3.565502	Stalled	chr11:72252879-72265052	10.174
Pgls	436	0	7.267015	209	3.483333	80.1073	5.469317	Stalled	chr8:74114082-74120166	4.085
Tmc6	436	0	7.267015	806	13.43333	26.5666	4.325842	Stalled	chr11:117627299-117643935	14.637
Adamts7	436	0	7.267015	83	1.383333	0.611262	1.516294	Unclassified	chr9:90055815-90094940	37.126
Agpat4	436	0	7.267015	1240	20.66667	10.8545	15.57849	Stalled	chr17:12310149-12412506	100.358
Trn	435	0	7.250347	499	8.316667	52.5213	0.630831	Stalled	chr11:102289635-102298121	6.487
Gbc1d9b	434	0	7.23368	563	9.383333	7.99507	9.44639	Stalled	chr11:49942861-49986287	41.427
Wdr51b	433	0	7.217012	831	13.85	6.01012	14.24121	Stalled	chr10:98567804-98660622	90.819
Gimap6	432	18	7.200345	794	13.23333	130.237	0.665683	Stalled	chr6:48651581-48660243	6.663
Atxn1	431	0	7.183678	3800	63.33333	1.767	18.2719	Stalled	chr13:45650261-46062345	101.085
Foxj2	430	0	7.16701	328	5.466667	5.00071	7.55297	Stalled	chr6:122768201-122795382	25.182
Moy1g	428	0	7.133675	1312	21.86667	106.439	2.519474	Elongating	chr11:6406551-6422961	14.411
Ppcdc	428	53	7.133675	782	13.03333	7.95759	5.79132	Stalled	chr9:57260470-57289921	27.452
Mami3	428	0	7.133675	2312	38.53333	2.92387	8.241196	Stalled	chr3:51491536-51910928	417.393

Mnt	427	0	7.117008	1242	20.7	8.17286	2.187283	Elongating	chr11:74642425-74659227	14.803
Fhad1	427	0	7.117008	872	14.53333	2.66894	0.36234	Stalled	chr4:141446765-141569552	120.788
Man1a	427	81	7.117008	6437	107.2833	60.1211	12.39085	Stalled	chr10:53625838-53797602	169.765
Wdr6	426	0	7.10034	309	5.15	27.8838	4.091373	Stalled	chr9:108474643-108483001	6.359
Zfp335	426	0	7.10034	992	16.53333	14.3148	5.83976	Stalled	chr2:164717391-164739250	19.86
Slc7a1	425	0	7.083673	3086	51.43333	17.5953	7.698708	Stalled	chr5:149138985-149213480	72.496
Sh3pxd2a	424	39	7.067005	1343	22.38333	2.92896	5.126172	Stalled	chr19:47334664-47540901	204.238
Ppp1r10	423	157	7.050338	1578	26.3	16.0484	6.3991	Stalled	chr17:36051855-36069226	15.372
Dus2l	423	0	7.050338	413	6.883333	7.67544	18.91492	Stalled	chr8:108533406-108577719	42.314
BC057022	423	0	7.050338	739	12.31667	1.41809	0.842351	Stalled	chr5:115016259-115063227	94.969
Abtb2	423	55	7.050338	1472	24.53333	4.09075	18.89967	Stalled	chr2:103404466-103558580	152.115
Paqr5	422	0	7.03367	240	4	0.128163	1.154512	Unclassified	chr9:61801544-61876597	73.054
Vps8	422	0	7.03367	758	12.63333	2.12657	30.6538	Stalled	chr16:21421190-21644753	221.564
Pptc7	421	0	7.017003	1480	24.66667	15.7811	3.78895	Stalled	chr5:122732406-122774290	39.885
Rps6ka1	421	0	7.017003	1059	17.65	34.6023	3.956359	Stalled	chr4:133403205-133445714	40.51
Ptbp1	420	0	7.000335	1344	22.4	90.9108	4.340494	Stalled	chr10:79315349-79327178	9.83
Rcsd1	420	0	7.000335	1858	30.96667	47.2843	2.761651	Elongating	chr1:167579075-167640225	59.151
Mys1e	420	0	7.000335	3111	51.85	17.721	8.823423	Stalled	chr9:70053156-70247874	192.719
Ebf1	420	61	7.000335	6079	101.3167	10.616	5.792057	Stalled	chr11:44429635-44818674	387.04
BC046404	418	0	6.967001	2396	39.93333	2.90621	1.556215	Elongating	chr11:62418385-62464025	43.641
Cd19	417	0	6.950333	576	9.6	277.246	3.022538	Stalled	chr7:133551961-133560384	6.424
Arsg	416	0	6.933666	581	9.683333	0.498422	60.68671	Stalled	chr11:109332687-109434641	99.955
Tmem49	416	249	6.933666	1917	31.95	23.7371	13.20462	Stalled	chr11:86397366-86499324	99.959
St3gal6	415	99	6.916998	1058	17.63333	10.2786	6.577794	Stalled	chr16:58470654-58525425	52.772
Prr7	414	0	6.900331	338	5.633333	4.82939	5.839544	Stalled	chr13:55563627-55574516	8.89
Sh2d5	414	0	6.900331	60	1	0.579592	5.359493	Stalled	chr4:137804325-137816883	10.559
BC006779	414	0	6.900331	1141	19.01667	36.8678	2.091555	Elongating	chr2:180962319-180978732	14.414
Sufu	414	0	6.900331	1148	19.13333	11.1907	13.27489	Stalled	chr19:46469407-46561150	89.744
Atxn2	414	0	6.900331	1026	17.1	3.94869	40.45311	Stalled	chr5:122159617-122264959	103.343
Xbp1	413	315	6.883663	1283	21.38333	183.725	2.319475	Elongating	chr11:5418969-5425875	4.907
Rnf41	413	0	6.883663	304	5.066667	5.19296	20.95958	Stalled	chr10:127846671-127878496	29.826
Ano10	413	0	6.883663	496	8.266667	4.28978	28.72801	Stalled	chr9:122084996-122205492	118.497
Fbxl22	412	0	6.866996	953	15.88333	1.86024	0.385949	Stalled	chr9:66356265-66364400	6.136
Tbc1d10c	412	0	6.866996	374	6.233333	60.7023	2.278647	Elongating	chr19:4184356-4193047	6.692
Cltc	412	77	6.866996	1897	31.61667	80.5302	15.91138	Stalled	chr11:86508154-86572994	62.841
Ptpr	412	0	6.866996	1186	19.76667	2.25839	1.105925	Stalled	chr7:142727506-142877977	148.472
Ccnd2	411	0	6.850328	5657	94.28333	36.0815	2.390682	Elongating	chr6:127075726-127103066	25.341
Gna12	411	0	6.850328	348	5.8	9.8694	9.988036	Stalled	chr5:141235897-141308385	70.489
Itp2	411	0	6.850328	1686	28.1	3.72041	42.40659	Stalled	chr6:146060001-146452434	390.434
Pik3r5	410	0	6.833661	868	14.46667	8.01386	7.633059	Stalled	chr11:68243626-68311348	65.723
Rbm47	410	0	6.833661	1074	17.9	1.42567	2.223973	Elongating	chr5:66407795-66545163	135.369
Brunol4	410	33	6.833661	1023	17.05	0.648305	0.212086	Unclassified	chr18:25636120-25914484	276.365
Clec2g	409	0	6.816993	1801	30.01667	0.480055	0.346568	Stalled	chr6:128882398-128934725	50.328
Mmwd	408	0	6.800326	57	0.95	4.20557	2.406299	Elongating	chr7:19659548-19668124	6.577
Dap4k1	408	47	6.800326	1771	29.51667	88.4289	4.036175	Stalled	chr7:29765872-29788297	20.426
Sh3tc1	408	0	6.800326	441	7.35	2.99708	12.31805	Stalled	chr5:36039828-36073925	32.098
Alpl	408	0	6.800326	1553	25.88333	44.4482	5.876756	Stalled	chr4:137297646-137354292	54.647
St6galnc5	408	0	6.800326	321	5.35	0.080135	0.999996	Unclassified	chr3:152483673-152647171	161.499
Cdk6	408	0	6.800326	1016	16.93333	2.7988	11.12286	Stalled	chr5:3342311-3522225	177.915
Limd2	407	0	6.783658	579	9.65	102.599	2.034893	Elongating	chr11:106017569-106023456	3.888
Cish	406	0	6.766991	1167	19.45	36.8655	1.868297	Elongating	chr9:107197019-107204292	5.274
Chst12	403	0	6.716989	590	9.833333	15.9825	6.734491	Stalled	chr5:140979562-141001192	19.631
Zfp180	402	0	6.700321	331	5.516667	6.88491	23.43448	Stalled	chr7:24864962-24892234	25.273
Hdac5	402	0	6.700321	662	11.03333	11.6513	4.326018	Stalled	chr11:102057060-102093486	34.427
Padi2	402	0	6.700321	363	6.05	2.45076	1.440283	Stalled	chr4:140460274-140508501	46.228
Atf4	401	64	6.683654	592	9.866667	96.5117	1.96054	Stalled	chr15:80083613-80087971	2.359
Dnm1	401	0	6.683654	144	2.4	0.392607	3.267176	Unclassified	chr2:32163990-32210824	44.835
Unc84b	400	0	6.666986	742	12.36667	18.0984	5.403259	Stalled	chr15:79554499-79574960	18.462
Sema4a	399	0	6.650319	206	3.433333	3.11653	1.087242	Stalled	chr3:88239883-88261683	19.801
Mx11	399	0	6.650319	534	8.9	3.17546	5.911407	Stalled	chr19:53382995-53450300	65.306
Plekho1	398	63	6.633651	344	5.733333	67.3093	2.108917	Elongating	chr3:95792762-95801762	7.001
Egln2	398	0	6.633651	627	10.45	50.6791	5.374995	Stalled	chr7:27943676-27953731	8.056
Rrp1b	398	0	6.633651	1208	20.13333	15.4931	8.479125	Stalled	chr17:32171106-32199807	26.702
Baiap2	398	0	6.633651	289	4.816667	3.37516	38.8603	Stalled	chr11:119802405-119868096	63.692
Shisa5	397	0	6.616984	620	10.33333	320.678	1.935069	Elongating	chr9:108955424-108960280	2.857
Mta3	397	0	6.616984	1301	21.68333	13.591	12.77255	Stalled	chr17:84103502-84214245	108.744
Napa	396	0	6.600316	583	9.716667	31.4521	6.79902	Stalled	chr7:16681991-16703324	19.334
Klhl18	395	0	6.583649	582	9.7	7.49639	12.52581	Stalled	chr9:110328429-110381198	50.77
Tmprss6	394	0	6.566981	283	4.716667	0.152464	0.179883	Stalled	chr15:78270096-78301064	28.969
Milt1	394	0	6.566981	764	12.73333	14.9321	4.355333	Stalled	chr17:57032033-57076811	42.779
Gas7	394	89	6.566981	606	10.1	0.890048	0.814701	Unclassified	chr11:67344499-67502494	155.996
Zbtb32	393	0	6.550314	333	5.55	113.391	2.092477	Stalled	chr7:31374699-31379961	3.263
Fam117a	393	65	6.550314	543	9.05	8.89155	12.62918	Stalled	chr11:95196331-95243185	44.855
4632428N05Rik	391	0	6.516979	545	9.083333	8.67609	2.571385	Elongating	chr10:59807598-59835432	25.835
Nedd9	391	87	6.516979	3953	65.88333	24.6079	11.36338	Stalled	chr13:41405284-41584689	177.406
Lyl1	390	0	6.500311	649	10.81667	69.2346	1.985827	Elongating	chr8:87223355-87228615	3.261
Lif	390	0	6.500311	177	2.95	0.301194	0.438276	Stalled	chr11:4155570-4172517	14.948
Cacna1	390	0	6.500311	876	14.6	2.48544	0.669674	Stalled	chr15:80115667-80228722	111.056
Leng8	389	0	6.483644	678	11.3	34.5684	6.205639	Stalled	chr7:4086657-4099775	11.119
5930434B04Rik	389	0	6.483644	812	13.53333	6.04086	1.52714	Elongating	chr2:26863485-26876609	11.125
Irf5	388	0	6.466977	880	14.66667	46.8529	2.953178	Stalled	chr6:29474732-29487319	10.588
Poir3h	387	0	6.450309	537	8.95	14.4121	2.847858	Stalled	chr15:81745459-81758643	11.185
Cables2	387	0	6.450309	939	15.65	6.20217	1.856233	Elongating	chr7:179993243-180010170	14.928
Mapk8ip3	387	0	6.450309	949	15.81667	20.2807	12.35035	Stalled	chr17:25034451-25075922	39.472
Ampd3	387	0	6.450309	162	2.7	0.523989	0.386398	Unclassified	chr7:117914117-117955909	39.793
A530032D15Rik	386	177	6.433642	383	6.383333	21.5037	1.693339	Elongating	chr1:85084713-85108428	21.716

Kcnab2	386	0	6.433642	1437	23.95	22.0234	5.574149	Stalled	chr4:151764852-151853588	86.737
Rabl4	385	0	6.416974	310	5.166667	16.0095	4.0058	Stalled	chr15:77989892-78006538	14.647
Gm885	385	0	6.416974	463	7.716667	4.67192	2.399425	Elongating	chr11:106610581-106628882	16.302
Fbxw8	385	0	6.416974	1291	21.51667	10.0554	6.935457	Stalled	chr5:118514989-118607467	90.479
Prkcb	385	0	6.416974	3529	58.81667	13.8601	10.48848	Stalled	chr7:129430638-129777915	345.278
Tspan4	384	0	6.400307	189	3.15	1.9195	10.83459	Stalled	chr7:148659138-148679321	18.184
Col15a1	384	0	6.400307	261	4.35	0.036143	0.855705	Unclassified	chr4:47218883-47326037	105.155
Vti1a	384	0	6.400307	2345	39.08333	4.83618	46.48294	Stalled	chr19:55388840-55701051	310.212
Ncf4	383	0	6.383639	380	6.333333	45.8446	8.87643	Stalled	chr15:78073240-78093010	17.771
Nfam1	383	0	6.383639	193	3.216667	1.79295	0.448027	Stalled	chr15:82828225-82855568	25.344
Rgs3	383	0	6.383639	478	7.966667	0.600151	0	Unclassified	chr4:62218880-62364053	143.174
Plxnc1	383	0	6.383639	3217	53.61667	12.2012	7.110191	Stalled	chr10:94253611-94409212	153.602
Rasgrf2	383	0	6.383639	200	3.333333	0.15763	3.25956	Unclassified	chr13:92020012-92903449	881.438
Mapt	382	0	6.366972	372	6.2	0.466157	2.112946	Unclassified	chr11:104090749-104193407	100.659
Gstt2	381	0	6.350304	342	5.7	85.4827	2.381353	Stalled	chr10:75294589-75299626	3.038
Abcb8	381	0	6.350304	223	3.716667	13.0977	10.63784	Stalled	chr5:23897973-23915765	15.793
Tctn1	381	0	6.350304	859	14.31667	4.89627	1.3453	Elongating	chr5:122691523-122716469	22.947
Strada	381	0	6.350304	270	4.5	10.5793	34.95362	Stalled	chr11:106024649-106056862	30.214
Tns1	381	0	6.350304	420	7	0.597707	4.040656	Unclassified	chr1:73956804-74173021	214.218
Lpcat1	379	0	6.316969	1323	22.05	19.7284	7.686333	Stalled	chr13:73602830-73651986	47.157
Gtf3c1	379	0	6.316969	1034	17.23333	13.1634	12.61239	Stalled	chr7:132784467-132853202	66.736
Cd180	378	0	6.300302	535	8.916667	12.4995	3.686012	Stalled	chr13:103481637-103496711	13.075
Ap1m1	378	0	6.300302	587	9.783333	45.6625	7.488155	Stalled	chr8:74762030-74781278	17.249
Gm13251	377	169	6.283634	55	0.916667	0.290897	1.043488	Unclassified	chr4:145728598-145751009	20.412
Crybb1	376	0	6.266967	150	2.5	0.601912	0.235244	Stalled	chr5:112682840-112698602	13.763
Tpst1	376	0	6.266967	1383	23.05	26.6136	11.67767	Stalled	chr5:130553355-130611602	56.248
Ncan	375	0	6.250299	72	1.2	0.345497	0.812902	Unclassified	chr8:72616983-72646743	27.761
Atg16l2	373	0	6.216965	768	12.8	8.09509	2.693794	Elongating	chr7:108438129-108452602	12.474
Zc3h4	373	0	6.216965	1537	25.61667	16.6702	11.24323	Stalled	chr7:16984544-17023045	36.502
Clic4	373	0	6.216965	3360	56	65.6863	6.324027	Stalled	chr4:134769884-134830675	58.792
Prr5l	373	0	6.216965	488	8.133333	0.480231	0.404439	Unclassified	chr2:101554441-101681137	124.697
Zfr2	372	0	6.200297	185	3.083333	0.659805	10.08892	Stalled	chr10:80693907-80714868	18.962
Kif21b	372	0	6.200297	1307	21.78333	14.2333	3.608421	Stalled	chr1:138025977-138074591	46.615
Adcy7	372	0	6.200297	1524	25.4	14.4846	0.93042	Stalled	chr8:90794301-90853861	57.561
Ctsz	371	64	6.18363	1314	21.9	246.965	1.98188	Elongating	chr2:174252994-174266493	11.5
Tnfr3	371	0	6.18363	1550	25.83333	20.8356	3.521831	Stalled	chr10:18720721-18737216	14.496
Sdc4	371	0	6.18363	1561	26.01667	47.5896	3.875101	Stalled	chr2:164249746-164270688	18.943
Acvr1b	371	0	6.18363	331	5.516667	3.34325	14.13773	Stalled	chr15:101002555-101043032	38.478
Ntsdc3	371	0	6.18363	700	11.66667	2.11835	25.63673	Stalled	chr10:86239749-86301134	59.386
B4gaint1	370	0	6.166962	387	6.45	39.4195	4.272183	Stalled	chr10:126600280-126609386	7.107
Itp3r	370	0	6.166962	1285	21.41667	18.4026	11.89408	Stalled	chr17:27192248-27259168	64.921
Ankrd55	370	64	6.166962	384	6.4	1.86596	3.161297	Unclassified	chr13:113076658-113174210	95.553
Lama5	369	0	6.150295	568	9.466667	0.11026	0.314608	Stalled	chr2:179911077-179962564	49.488
Ccdc21	369	73	6.150295	1463	24.38333	2.44316	10.54829	Stalled	chr4:133685772-133745000	57.229
Ece1	369	0	6.150295	1002	16.7	4.31957	8.407085	Stalled	chr4:137416151-137521143	102.993
Irf1	367	57	6.11696	781	13.01667	26.3468	3.79137	Stalled	chr11:53581515-53591876	8.362
Tpm3	367	0	6.11696	2000	33.33333	50.3258	0.026555	Stalled	chr3:89874615-89904526	27.912
Kcnk13	367	0	6.11696	262	4.366667	2.88755	6.493652	Stalled	chr12:101200708-101300891	98.184
Dbp	366	0	6.100292	524	8.733333	7.44543	0.502286	Stalled	chr7:52958616-52965573	4.958
Dtx1	366	0	6.100292	915	15.25	14.6119	2.862495	Elongating	chr5:121130272-121163678	31.407
Iscu	365	0	6.083625	335	5.583333	23.6846	2.305345	Elongating	chr5:114220820-114228291	5.472
Bbc3	365	0	6.083625	624	10.4	17.9912	3.239448	Stalled	chr7:16892931-16903682	8.752
Pdxk	365	0	6.083625	298	4.966667	4.15142	16.47891	Stalled	chr10:77899491-77929693	28.203
Tmem184b	365	0	6.083625	1221	20.35	12.3108	8.339884	Stalled	chr15:79191113-79235733	42.621
Hist1h1d	364	101	6.066957	234	3.9	4.95852	5.171779	Stalled	chr13:23644900-23649877	2.978
Fam69b	364	0	6.066957	1653	27.55	0.75833	0.038179	Stalled	chr2:26481976-26492017	8.042
Mvd	364	0	6.066957	226	3.766667	107.821	7.894629	Stalled	chr8:124957495-124969322	9.828
P2ry6	364	0	6.066957	71	1.183333	0.066996	0.798085	Unclassified	chr7:108086147-108114880	26.734
Rhoh	364	0	6.066957	1027	17.11667	7.93627	6.613895	Stalled	chr5:66252807-66287939	33.133
Gimap3	363	62	6.05029	576	9.6	117.82	1.742606	Elongating	chr6:48714462-48722850	6.389
Pqlc3	363	91	6.05029	432	7.2	10.244	6.507828	Stalled	chr12:16995454-17008924	11.471
Trex1	362	0	6.033622	149	2.483333	34.2863	1.818673	Unclassified	chr9:108960445-108963765	1.321
Btd	362	0	6.033622	404	6.733333	9.79612	11.06031	Stalled	chr14:32452242-32481381	27.14
Zfp608	362	0	6.033622	2107	35.11667	13.4633	1.461929	Elongating	chr18:55047701-55151567	101.867
Irf2	361	94	6.016955	1746	29.1	22.0486	14.11182	Stalled	chr8:47823098-47932812	107.715
Prkag2	360	0	6.000288	1058	17.63333	2.77254	6.403396	Stalled	chr5:24368552-24608460	237.909
Cd37	359	0	5.98362	865	14.41667	267.502	2.159681	Elongating	chr7:52489001-52496209	5.209
Clec2d	359	237	5.98362	915	15.25	11.4318	2.681585	Stalled	chr6:129128639-129136552	5.914
Cd276	359	0	5.98362	35	0.583333	0.180967	0.617748	Unclassified	chr9:58372106-58390747	16.642
Glipr2	359	0	5.98362	529	8.816667	14.1848	4.905511	Stalled	chr4:43968573-43991990	21.418
Hhat	359	55	5.98362	1175	19.58333	0.676509	15.02435	Stalled	chr1:194336709-194599413	260.705
Mgat1	358	154	5.966953	1736	28.93333	56.3583	1.993152	Elongating	chr11:49055692-49076526	18.835
Ptmr12	358	0	5.966953	854	14.23333	4.00198	18.33155	Stalled	chr15:12132848-12201995	67.148
Ppard	358	0	5.966953	744	12.4	7.29177	6.507103	Stalled	chr17:28367698-28438414	68.717
Sergef	358	0	5.966953	1268	21.13333	5.64931	14.70198	Stalled	chr7:53698542-53897160	196.619
Stard5	357	0	5.950285	513	8.55	6.71059	2.959831	Stalled	chr7:90778526-90790838	10.313
Cdh29	356	0	5.933618	591	9.85	0	3.064886	Stalled	chr9:107883423-107897338	11.916
Slc38a10	356	0	5.933618	978	16.3	21.2608	7.745731	Stalled	chr11:119965264-120014665	47.402
Plcg2	356	0	5.933618	3836	63.93333	51.6742	7.080214	Stalled	chr8:120020190-120159042	136.853
mmu-mir-200c	354	0	5.900283	601	10.01667	ND	ND	Elongating	chr6:124667057-124674077	7.021
Rusc1	354	0	5.900283	334	5.566667	13.5809	4.016823	Stalled	chr3:88887900-88899285	9.386
Acbd4	354	0	5.900283	326	5.433333	11.9124	1.219205	Elongating	chr11:102961001-102973513	10.513
Cacna1s	354	0	5.900283	211	3.516667	2.60191	0.238055	Unclassified	chr1:137947477-138016399	66.923
Dgk1	354	0	5.900283	2144	35.73333	25.9571	5.571627	Stalled	chr1:89747861-89841064	91.204
Lemd2	353	0	5.883615	432	7.2	18.1755	4.314911	Stalled	chr17:27326544-27343383	14.84
Capn5	353	0	5.883615	363	6.05	2.87866	9.302009	Stalled	chr7:105270074-105328703	56.63

Edem1	352	0	5.866948	1310	21.83333	36.9232	9.050073	Stalled	chr6:108776634-108809350	30.717
Dclre1b	351	120	5.85028	234	3.9	7.12549	9.626013	Stalled	chr3:103604527-103615310	8.784
Pdap1	351	0	5.85028	822	13.7	63.3724	3.434873	Stalled	chr5:145889638-145902958	11.321
Nkndr11	351	0	5.85028	4400	73.33333	16.8573	6.227303	Stalled	chr8:125407220-125567897	158.678
Vdr	350	0	5.833613	228	3.8	1.0867	4.517747	Stalled	chr15:97684857-97740727	53.871
Fkbp5	350	0	5.833613	767	12.78333	15.7173	18.55468	Stalled	chr17:28536039-28625057	87.019
Clic1	349	0	5.816945	1004	16.73333	168.888	2.772428	Stalled	chr17:35185187-35195664	8.478
Pcnx13	349	0	5.816945	529	8.816667	12.3874	10.24096	Stalled	chr19:5664634-5690908	24.275
Cmah	349	97	5.816945	1621	27.01667	3.16557	0.084112	Stalled	chr13:24417288-24569154	149.867
Anp32a	348	0	5.800278	1752	29.2	100.334	3.56769	Stalled	chr9:62187149-62228609	37.461
Map3k1	348	0	5.800278	2011	33.51667	9.10511	6.206823	Stalled	chr13:112536642-112601191	62.55
Rasgrp1	348	0	5.800278	613	10.21667	5.86689	16.23063	Stalled	chr2:117105728-117170613	62.886
Sgms1	348	0	5.800278	1462	24.36667	2.60455	9.658652	Stalled	chr19:32197217-32464944	265.728
Nfkb1a	347	58	5.78361	618	10.3	125.819	1.961047	Elongating	chr12:56590395-56595634	3.24
Spn	347	0	5.78361	155	2.583333	22.3945	1.186448	Elongating	chr7:134276977-134283331	4.355
Jund	346	0	5.766943	1094	18.23333	230.981	0.1526	Stalled	chr8:73219637-73224515	2.879
Cybasc3	346	0	5.766943	651	10.85	59.4717	5.956262	Stalled	chr19:10650212-10664320	12.109
Nek6	346	0	5.766943	1622	27.03333	4.63337	4.363936	Stalled	chr2:38365216-38443010	75.795
Fam125b	346	0	5.766943	450	7.5	1.0006	3.87959	Unclassified	chr2:33585475-33745466	157.992
Uvrag	346	0	5.766943	7127	118.7833	28.397	8.549309	Stalled	chr7:106035252-106291654	254.403
Etv3	345	0	5.750276	810	13.5	14.7311	6.282304	Stalled	chr3:87327499-87344078	14.58
Gucy2c	345	0	5.750276	356	5.933333	3.97615	0.569745	Unclassified	chr6:136645804-136732263	84.46
Antxr1	345	0	5.750276	512	8.533333	0.267818	0.281831	Unclassified	chr6:87083846-87287769	201.924
Tmem176b	344	0	5.733608	341	5.683333	87.3335	2.775123	Stalled	chr6:48783812-48792987	7.176
Crtc1	344	0	5.733608	524	8.733333	2.96741	20.92816	Stalled	chr8:72906256-72965472	57.217
2010001M09Rik	343	110	5.716941	323	5.383333	889.234	1.868378	Stalled	chr18:35806919-35811021	2.103
Surf2	343	0	5.716941	360	6	16.3961	2.457123	Stalled	chr2:26769940-26775690	3.751
Bat1a	343	0	5.716941	1643	27.38333	94.7185	2.829781	Stalled	chr17:35376690-35390650	11.961
Ncoa3	343	0	5.716941	1725	28.75	23.9057	13.3663	Stalled	chr2:165816136-165898742	80.607
Ttc7b	343	0	5.716941	1327	22.11667	4.0096	4.959005	Stalled	chr12:101538979-101761032	220.054
Ptma	342	0	5.700273	960	16	317.837	1.363553	Elongating	chr1:88421310-88427273	3.964
Icam5	342	0	5.700273	105	1.75	2.60393	3.189189	Stalled	chr9:20834481-20843480	7
Titit	342	52	5.700273	312	5.2	13.172	3.731326	Stalled	chr16:43648973-43666297	15.325
Gatad2a	342	0	5.700273	1840	30.66667	14.4233	6.400903	Stalled	chr8:72430967-72500282	67.316
Evl	342	0	5.700273	1231	20.51667	68.593	0.876345	Stalled	chr12:109790929-109926723	133.795
Dnajb13	341	26	5.683606	291	4.85	1.64829	0.035776	Stalled	chr7:107651528-107665324	11.797
Cflar	341	0	5.683606	1929	32.15	11.1864	2.395315	Elongating	chr1:58768129-58815726	45.598
Slamf7	340	67	5.666938	1790	29.83333	11.0215	0.043403	Stalled	chr1:173562533-173585168	20.636
Samm50	340	0	5.666938	597	9.95	45.5451	10.15975	Stalled	chr15:84020662-84044733	22.072
AW555464	340	0	5.666938	183	3.05	3.29962	2.609435	Elongating	chr12:113958384-113984802	24.419
Cep110	340	34	5.666938	1320	22	12.2173	21.90235	Stalled	chr2:34963011-35034342	69.332
Hip1	340	0	5.666938	913	15.21667	1.88025	3.929332	Stalled	chr5:135882387-136022992	138.606
Zfp513	339	0	5.650271	453	7.55	20.2061	2.530003	Stalled	chr5:31501353-31506606	3.254
Adssi1	339	0	5.650271	360	6	6.5316	12.28287	Stalled	chr12:113856257-113879566	21.31
Csmtm7	339	0	5.650271	843	14.05	18.7803	8.026056	Stalled	chr9:114665953-114692947	24.995
Ubr4	339	0	5.650271	2305	38.41667	16.0517	13.81455	Stalled	chr4:138934573-139045445	108.873
Fzr1	338	0	5.633603	754	12.56667	40.9388	2.484304	Elongating	chr10:80829623-80843115	11.493
Rab5c	338	0	5.633603	485	8.083333	79.7696	8.929899	Stalled	chr11:100576579-100601444	22.866
Atg4d	337	0	5.616936	611	10.18333	11.9793	3.089835	Stalled	chr9:21067742-21078812	9.071
Ncf1	337	0	5.616936	983	16.38333	95.0179	1.780811	Elongating	chr5:134696129-134707495	9.367
Kdm4a	337	0	5.616936	645	10.75	23.047	10.47094	Stalled	chr4:117814648-117854648	38.001
Spns3	337	0	5.616936	139	2.316667	1.54264	10.48223	Stalled	chr11:72311657-72365748	52.092
Ctdp1	337	0	5.616936	1049	17.48333	11.1019	20.67962	Stalled	chr18:80604697-80668406	61.71
Il9r	336	0	5.600268	183	3.05	5.14094	1.11734	Elongating	chr11:32088996-32102279	11.284
Ldlr	336	0	5.600268	2002	33.36667	22.4874	4.522219	Stalled	chr9:21526037-21554362	26.326
Mfsd10	335	0	5.583601	129	2.15	26.2174	5.934509	Stalled	chr5:34976295-34981763	3.469
Mif4gd	335	0	5.583601	456	7.6	65.3302	3.626236	Stalled	chr11:115469234-115475817	4.584
Bnip1	335	0	5.583601	197	3.283333	14.3886	8.557283	Stalled	chr17:26916023-26929464	11.442
Sic1a5	335	64	5.583601	1200	20	62.9648	4.126841	Stalled	chr7:17364694-17383623	16.93
Rab11fip4	335	0	5.583601	355	5.916667	0.383063	0.668574	Unclassified	chr11:79402713-79507514	102.802
Atg7	335	0	5.583601	1517	25.28333	3.28031	21.54627	Stalled	chr6:114591142-114809954	216.813
Fermt3	334	0	5.566933	1682	28.03333	108.151	3.25692	Stalled	chr19:7073447-7095959	20.513
Tmem123	333	156	5.550266	2571	42.85	128.987	6.12086	Stalled	chr9:7762076-7794332	30.257
Tmem163	333	0	5.550266	495	8.25	2.2857	6.29864	Stalled	chr1:129386918-129576598	187.681
Rnf122	332	39	5.533598	261	4.35	2.69491	6.062458	Stalled	chr8:32220317-32241945	19.629
Cln6	332	0	5.533598	749	12.48333	6.60562	9.702827	Stalled	chr4:147380592-147414876	32.285
Sic9a1	332	0	5.533598	687	11.45	12.4494	21.9601	Stalled	chr4:132923686-132979613	53.928
Ppp1r13b	332	0	5.533598	409	6.816667	3.45714	17.73156	Stalled	chr12:113066668-113148266	79.599
Pex10	331	0	5.516931	364	6.066667	4.63676	2.008486	Elongating	chr4:154439138-154446515	5.378
Tspan32	331	0	5.516931	656	10.93333	17.101	4.095901	Stalled	chr7:150188950-150205390	14.441
Pear1	331	0	5.516931	551	9.183333	7.42167	1.522253	Elongating	chr3:87553018-87574875	19.858
Pofut1	331	0	5.516931	834	13.9	8.96454	11.19415	Stalled	chr2:153065267-153095985	28.719
Plcg1	331	0	5.516931	489	8.15	5.18946	5.059656	Stalled	chr2:160555045-160601496	44.452
Zbtb7b	330	0	5.500264	296	4.933333	9.67774	0.9376	Stalled	chr3:89181567-89199125	15.559
4930539E08Rik	330	0	5.500264	192	3.2	1.2079	0.256241	Stalled	chr17:29033339-29054269	18.931
Usp22	330	0	5.500264	828	13.8	10.8045	4.873783	Stalled	chr11:60965282-60990561	23.28
Scube1	330	0	5.500264	227	3.783333	0.087635	1.045575	Unclassified	chr15:83433012-83557451	122.44
Ncln	328	0	5.466929	355	5.916667	26.949	6.534385	Stalled	chr10:80949203-80961108	9.906
Atp4a	328	0	5.466929	133	2.216667	0.959169	0.084678	Stalled	chr7:31495250-31510553	13.304
Ubtf	328	0	5.466929	1825	30.41667	46.1227	1.229698	Elongating	chr11:102165873-102182410	14.538
D730040F13Rik	328	0	5.466929	780	13	2.94875	7.535163	Stalled	chr4:56888884-56962301	71.418
Lef1	328	0	5.466929	748	12.46667	4.0762	1.561116	Stalled	chr3:130811388-130926249	112.862
Zfp36	327	3	5.450261	379	6.316667	46.7677	2.383103	Stalled	chr7:29161802-29166247	2.446
Ruvbl2	327	0	5.450261	444	7.4	50.1792	6.297334	Stalled	chr7:52677267-52691834	12.568
Freq	327	0	5.450261	242	4.033333	0.911507	3.341938	Stalled	chr2:31099442-31150991	49.55
BC030307	327	83	5.450261	386	6.433333	4.5623	83.85025	Stalled	chr10:86166555-86239588	71.034

Bop1	326	0	5.433594	877	14.61667	41.0961	11.91833	Stalled	chr15:76283425-76309699	24.275
Rassf4	326	0	5.433594	324	5.4	4.43466	22.44221	Stalled	chr6:116583025-116625854	40.83
Pitpnm1	325	0	5.416926	414	6.9	21.1722	3.34132	Stalled	chr19:4098116-4113964	13.849
Sla2	325	0	5.416926	221	3.683333	0.983745	2.303906	Elongating	chr2:156698657-156714814	14.158
Serinc3	325	138	5.416926	2034	33.9	116.814	6.013136	Stalled	chr2:163449008-163472879	21.872
Iqsec1	325	0	5.416926	2264	37.73333	18.5512	1.494804	Elongating	chr6:90609591-90668523	56.933
Alg14	325	57	5.416926	340	5.666667	8.9413	44.64302	Stalled	chr3:120992734-121064929	70.196
Cdk8	325	131	5.416926	648	10.8	7.54442	10.26329	Stalled	chr5:147041250-147114450	71.201
Ahnak	325	0	5.416926	259	4.316667	0.572011	6.266473	Stalled	chr19:9061773-9151409	87.637
Runx1	325	0	5.416926	5212	86.86667	5.25802	5.841392	Stalled	chr16:92601710-92828311	224.602
Itrp1	325	0	5.416926	3911	65.18333	11.6071	25.86318	Stalled	chr6:108161089-108501104	338.016
Phf19	324	0	5.400259	674	11.23333	7.20641	5.989657	Stalled	chr2:34749274-34771496	20.223
Anxa6	324	0	5.400259	554	9.233333	33.391	7.663165	Stalled	chr11:54792463-54848973	54.511
mmu-mir-23a,r	323	0	5.383591	706	11.76667	ND	ND	Stalled	chr8:86722447-86733454	11.008
Dgkz	323	0	5.383591	635	10.58333	19.2655	7.427439	Stalled	chr2:91772978-91805720	30.743
Pcif1	322	0	5.366924	849	14.15	15.7564	7.259917	Stalled	chr2:164702867-164716937	12.071
Sipa1	322	0	5.366924	477	7.95	38.7033	4.623527	Stalled	chr19:5651184-5665707	12.524
Ptprcd	322	0	5.366924	468	7.8	60.3742	1.157393	Elongating	chr14:31408554-31425498	14.945
Limd1	322	0	5.366924	1046	17.43333	30.8377	5.078206	Stalled	chr9:123385818-123430668	42.851
Hspg2	322	0	5.366924	373	6.216667	0.770026	11.49099	Stalled	chr4:137022717-137126545	101.829
Ptprcap	321	77	5.350256	411	6.85	323.586	0.889916	Elongating	chr19:4152645-4156710	2.066
Haoa	321	63	5.350256	646	10.76667	27.6698	14.12237	Stalled	chr17:84230693-84248130	15.438
D6Mm5e	321	0	5.350256	499	8.316667	0.568642	0.141711	Stalled	chr6:82894915-82980303	83.389
Nop56	320	0	5.333589	697	11.61667	45.055	4.566195	Stalled	chr2:130098147-130105049	4.903
Gramd2	320	0	5.333589	46	0.766667	1.59241	3.85513	Stalled	chr9:59553570-59564231	8.662
Ppp2r2c	320	0	5.333589	159	2.65	0.041333	1.04916	Unclassified	chr5:37257808-37346317	86.51
Wdr38	319	0	5.316921	764	12.73333	2.02408	0.320923	Stalled	chr2:38851828-38857104	3.277
Adat3	319	0	5.316921	222	3.7	23.0801	5.351853	Stalled	chr10:80063624-80070399	4.776
Wnt10a	319	0	5.316921	48	0.8	3.58864	1.697275	Unclassified	chr1:74836592-74850747	12.156
Pde4c	319	0	5.316921	203	3.383333	1.3965	0.341935	Stalled	chr8:73245962-73275075	27.114
Cd2	318	0	5.300254	340	5.666667	33.6061	0.942903	Elongating	chr3:101079830-101093862	12.033
Rrp1	318	0	5.300254	694	11.56667	138.712	4.188565	Stalled	chr10:77863106-77877788	12.683
Tnfrsf8	318	0	5.300254	3110	51.83333	16.4578	3.550647	Stalled	chr4:144858878-144907050	46.173
Zfp408	317	0	5.283587	162	2.7	13.1119	6.507076	Stalled	chr2:91483844-91491948	6.105
Il12a	317	0	5.283587	167	2.783333	9.42836	0.436761	Stalled	chr3:68492565-68502469	7.905
Trim11	317	0	5.283587	598	9.966667	21.2241	4.914592	Stalled	chr11:58789617-58804960	13.344
Cyp4f18	317	0	5.283587	177	2.95	16.6257	3.167835	Stalled	chr8:74512380-74535525	21.146
5031414D18Rik	317	0	5.283587	998	16.63333	6.05645	4.157057	Stalled	chr14:75413833-75452339	36.507
Por	317	0	5.283587	572	9.533333	20.8192	21.19996	Stalled	chr5:136163083-136211195	46.113
Ttc13	317	0	5.283587	397	6.616667	7.69524	19.00851	Stalled	chr8:127195226-127247875	50.65
Iqgap1	317	0	5.283587	3347	55.78333	32.1662	10.24246	Stalled	chr7:87856468-87950217	91.75
Akt1s1	316	0	5.266919	585	9.75	18.3943	1.168456	Elongating	chr7:52102596-52110780	6.185
Fbxl18	316	0	5.266919	154	2.566667	3.74808	11.96023	Stalled	chr5:143633467-143658917	23.451
Traf3ip3	316	54	5.266919	1344	22.4	39.5059	3.969438	Stalled	chr1:195001698-195029740	26.043
Lsp1	316	0	5.266919	720	12	131.576	2.913361	Elongating	chr7:149644774-149680504	33.731
Rpl13a	315	0	5.250252	674	11.23333	1433.89	1.647799	Elongating	chr7:52381145-52386105	2.961
Gm14446	315	127	5.250252	17	0.283333	0.65965	0.644446	Unclassified	chr19:34667377-34678458	9.082
Lrch4	315	73	5.250252	255	4.25	22.0291	12.50605	Stalled	chr5:138068350-138082327	11.978
Atg2a	315	0	5.250252	295	4.916667	7.63612	6.615946	Stalled	chr19:6239667-6262304	20.638
Arhgap23	315	0	5.250252	165	2.75	0.526632	0.947864	Unclassified	chr11:97309473-97363714	52.242
Gstz1	314	0	5.233584	623	10.38333	4.95896	6.062053	Stalled	chr12:88486667-88505673	17.007
1810008A18Rik	314	0	5.233584	988	16.46667	19.5045	9.615791	Stalled	chr10:76949400-76980558	29.159
Atp2a3	314	0	5.233584	756	12.6	65.4714	7.455355	Stalled	chr11:72772670-72806545	31.876
Lgr6	314	0	5.233584	271	4.516667	0.665048	0.303208	Unclassified	chr1:136882929-137003853	118.925
Derl3	313	0	5.216917	176	2.933333	36.7177	1.757808	Elongating	chr10:75354142-75358686	2.545
Dok3	313	64	5.216917	160	2.666667	31.1743	4.716229	Stalled	chr13:55624595-55631899	5.305
Dusp7	313	0	5.216917	198	3.3	6.44946	2.298029	Elongating	chr9:106268962-106278052	7.091
Pld4	313	47	5.216917	422	7.033333	71.7212	1.964198	Elongating	chr12:113996865-114007197	8.333
Fam83e	312	0	5.200249	674	11.23333	0.291682	3.085669	Stalled	chr7:52974589-52984862	8.274
Nfe211	312	0	5.200249	640	10.66667	26.1548	8.797058	Stalled	chr11:96678727-96693282	12.556
Ube2i	312	0	5.200249	939	15.65	28.4789	1.584686	Elongating	chr17:25397455-25413236	13.782
Il2rb	312	0	5.200249	605	10.08333	14.2158	2.592708	Elongating	chr15:78310978-78327452	14.475
Dip2b	312	50	5.200249	2724	45.4	3.43021	8.792983	Stalled	chr15:99867094-100049904	180.811
Pitpnc1	312	0	5.200249	927	15.45	2.94617	18.50031	Stalled	chr11:107069205-107334034	262.83
Gpr56	311	0	5.183582	150	2.5	1.31843	1.280699	Unclassified	chr8:97506502-97538091	29.59
Hs3st1	311	0	5.183582	220	3.666667	1.39932	7.611883	Stalled	chr5:40005173-40037870	30.698
Btg2	310	110	5.166914	298	4.966667	54.2369	4.621815	Stalled	chr1:135971441-135977732	4.292
Rnf114	310	0	5.166914	980	16.33333	32.2962	5.661512	Stalled	chr2:167316144-167341666	23.523
Cabcl1	310	0	5.166914	541	9.016667	3.34081	10.6449	Stalled	chr1:182095368-182128151	30.784
Hmgm3	310	84	5.166914	1709	28.48333	39.6436	2.146444	Elongating	chr9:83003550-83042214	36.665
Ski	310	0	5.166914	887	14.78333	2.84312	5.089007	Stalled	chr4:154528183-154596644	68.462
Serpinf1	309	0	5.150247	252	4.2	3.04466	0.263949	Stalled	chr11:75223530-75238125	12.596
Ankrd24	309	0	5.150247	293	4.883333	3.37136	1.220141	Elongating	chr10:81089284-81110357	19.074
Elmod3	309	0	5.150247	189	3.15	4.51055	19.95481	Stalled	chr6:72515920-72550336	32.417
Pex16	308	0	5.133579	147	2.45	18.6424	7.539445	Stalled	chr2:92213395-92221376	5.982
Map4k4	308	0	5.133579	2091	34.85	22.2935	7.524363	Stalled	chr1:39955757-40083155	125.399
H2-DMA	307	0	5.116912	208	3.466667	239.812	2.43624	Stalled	chr17:34270615-34275480	2.866
Rhbh	307	0	5.116912	27	0.45	0.891512	0.857823	Unclassified	chr3:88046795-88060606	11.812
Trmu	307	0	5.116912	233	3.883333	7.58697	15.28877	Stalled	chr15:85707756-85727823	18.068
B4galnt5	307	0	5.116912	2469	41.15	16.6971	2.902665	Elongating	chr2:167123944-167176678	50.735
Disc1	307	0	5.116912	441	7.35	0.387417	7.322012	Stalled	chr8:127576094-127785051	206.958
Pink1	306	0	5.100244	263	4.383333	15.555	4.411164	Stalled	chr4:137869324-137884211	12.888
Zfp219	306	0	5.100244	225	3.75	5.28623	9.156534	Stalled	chr14:52625751-52642408	14.658
Sfp1	306	0	5.100244	676	11.26667	45.5558	7.712794	Stalled	chr2:90934953-90959131	18.961
6330416G13Rik	306	0	5.100244	259	4.316667	3.50164	2.640363	Elongating	chr4:63219393-63247387	25.995
Abcc1	306	0	5.100244	1519	25.31667	6.46148	13.63229	Stalled	chr16:14359652-14474967	113.316

Vps13d	306	0	5.100244	2053	34.21667	3.36611	0.662063	Stalled	chr4:144565039-144782495	215.457
Mafg	305	0	5.083577	263	4.383333	12.9089	2.402686	Elongating	chr11:120489666-120496861	5.196
Mcam	305	0	5.083577	195	3.25	0.252604	0.454842	Stalled	chr9:43940740-43950809	8.07
Chd9	305	0	5.083577	1961	32.68333	2.67019	11.30738	Stalled	chr8:93350733-93578407	225.675
Cicf1	304	0	5.066909	261	4.35	18.0768	1.966353	Elongating	chr19:4212391-4222615	8.225
Slc17a9	304	0	5.066909	741	12.35	11.4495	7.18138	Stalled	chr2:180458043-180476983	16.941
Inpp5k	304	0	5.066909	351	5.85	12.076	14.83885	Stalled	chr11:75442521-75462367	17.847
Acsf2	304	0	5.066909	512	8.533333	8.56829	7.232703	Stalled	chr11:94418415-94465100	44.686
Frm4b	304	0	5.066909	681	11.35	0.310915	0.326271	Unclassified	chr6:97236860-97569651	330.792
Hspa5	303	61	5.050242	416	6.933333	339.521	6.390741	Stalled	chr2:34625609-34632049	4.441
Myc	303	0	5.050242	1287	21.45	53.4588	1.563911	Elongating	chr15:61814895-61821916	5.022
Nfkbie	303	0	5.050242	546	9.1	28.5507	1.670586	Elongating	chr17:45690664-45700117	7.454
Mier2	302	0	5.033575	248	4.133333	8.19349	6.822248	Stalled	chr10:79002989-79019836	14.848
Tnnt2	302	0	5.033575	66	1.1	0.335143	3.311028	Stalled	chr1:137730962-137748838	15.877
Tead2	302	0	5.033575	833	13.88333	0.890612	0.059543	Stalled	chr7:52469122-52488989	17.868
Son	302	0	5.033575	1508	25.13333	25.4049	10.6605	Stalled	chr16:91646068-91679437	31.37
Traf4	301	0	5.016907	337	5.616667	13.0035	2.840072	Stalled	chr11:77971924-77981052	7.129
Fam116b	301	0	5.016907	222	3.7	3.27602	19.16893	Stalled	chr15:89012642-89028905	14.264
Hck	301	0	5.016907	163	2.716667	2.37206	3.887523	Stalled	chr2:152932243-152977172	42.93
Ptprj	301	0	5.016907	923	15.38333	1.22466	8.52226	Stalled	chr2:90269912-90422804	150.893
Dak	300	0	5.00024	728	12.13333	4.45295	0.598758	Stalled	chr19:10666686-10680748	12.063
Rps19	299	0	4.983572	704	11.73333	197.553	2.899603	Stalled	chr7:25667732-25674821	5.09
Slc25a10	299	0	4.983572	136	2.266667	8.21393	10.55706	Stalled	chr11:120351150-120362475	9.326
C85492	299	0	4.983572	47	0.783333	0.17853	0.444275	Unclassified	chr9:121890723-121907144	14.422
1110007L15Rik	299	0	4.983572	677	11.28333	26.9639	10.32045	Stalled	chr5:139726277-139746004	17.728
Ptk2b	299	57	4.983572	2808	46.8	37.3252	4.104446	Stalled	chr14:66772093-66901889	127.797
Ppan	298	0	4.966905	481	8.016667	50.7376	3.018384	Stalled	chr9:20690618-20696623	4.006
Ath1l	298	0	4.966905	97	1.616667	1.72715	10.49843	Stalled	chr7:148125479-148133557	6.079
Dgat1	298	0	4.966905	251	4.183333	3.91407	9.455534	Stalled	chr15:76332444-76344248	9.805
Eif3d	298	0	4.966905	769	12.81667	99.8151	8.539345	Stalled	chr15:77789427-77803254	11.828
Abcb9	298	0	4.966905	257	4.283333	1.22617	3.294948	Stalled	chr5:124511865-124547807	33.943
BC017612	298	0	4.966905	488	8.133333	21.1277	0.883109	Stalled	chr9:15307938-15349703	39.766
Usp10	298	0	4.966905	1190	19.83333	20.2749	9.727986	Stalled	chr8:122432751-122481457	46.707
2410131K14Rik	297	0	4.950237	165	2.75	5.52414	20.24203	Stalled	chr5:118693235-118713123	17.889
Batf	297	0	4.950237	1140	19	130.095	5.66715	Stalled	chr12:87025669-87050037	22.369
Dnase1l3	297	0	4.950237	373	6.216667	5.24148	3.630199	Stalled	chr14:8797703-8828696	28.994
Scml4	296	0	4.93357	346	5.766667	1.50402	5.573672	Stalled	chr10:42578317-42680588	100.272
Cnrm2	296	0	4.93357	249	4.15	6.14345	23.51407	Stalled	chr19:46834098-46953070	116.973
Trmrt2a	295	0	4.916902	635	10.58333	47.2846	3.220577	Stalled	chr16:18246975-18253595	4.621
Sic1a4	295	0	4.916902	189	3.15	4.44893	27.3003	Stalled	chr11:20202182-20234716	30.535
Reb27a	294	0	4.900235	511	8.516667	14.0494	8.824823	Stalled	chr9:72890671-72945399	52.729
Pecam1	294	0	4.900235	908	15.13333	7.40457	1.365022	Elongating	chr11:106515531-106578595	61.065
Lrrc45	293	0	4.883567	79	1.316667	10.2571	8.91589	Stalled	chr11:120573266-120582439	7.174
Tap2	293	0	4.883567	697	11.61667	93.7652	2.037158	Elongating	chr17:34339423-34353264	11.842
Smo	293	48	4.883567	84	1.4	0.629897	1.142223	Unclassified	chr6:29683496-29711366	25.871
Obfc1	293	0	4.883567	363	6.05	5.26071	16.25782	Stalled	chr19:47575537-47613510	35.974
Klc1	293	0	4.883567	2861	47.68333	73.0236	5.099593	Stalled	chr12:112995059-113044986	47.928
Pepd	293	0	4.883567	1821	30.35	10.6976	7.465354	Stalled	chr7:35695425-35829727	132.303
Zfp361l	292	0	4.8669	713	11.88333	75.7906	2.580568	Stalled	chr12:81208746-81216000	5.255
Pias4	292	0	4.8669	933	15.55	17.2927	2.494245	Elongating	chr10:80616715-80632465	13.751
Unc93b1	292	0	4.8669	958	15.96667	126.174	4.226267	Stalled	chr19:3933185-3949339	14.155
Rfc2	292	0	4.8669	663	11.05	50.8537	3.651142	Stalled	chr5:135056559-135074198	15.64
Cbx7	292	0	4.8669	830	13.83333	12.9207	2.097548	Elongating	chr15:79746236-79765076	16.841
Pibld2	292	0	4.8669	428	7.133333	11.2217	5.618778	Stalled	chr5:120933901-120955632	19.732
Tecpr2	292	0	4.8669	316	5.266667	1.49756	62.3006	Stalled	chr12:112125473-112210604	83.132
Cdc42se1	291	0	4.850232	421	7.016667	55.6976	7.691154	Stalled	chr3:95030701-95040331	7.631
Trabd	291	0	4.850232	558	9.3	43.4819	2.326912	Elongating	chr15:88904493-88917505	11.013
Unkl	291	0	4.850232	205	3.416667	1.94732	5.635749	Stalled	chr17:25357526-25371387	11.862
Gli3	291	0	4.850232	330	5.5	0.180947	2.636092	Unclassified	chr4:107105323-107307664	200.342
Trm222	290	0	4.833565	256	4.266667	13.7907	9.347074	Stalled	chr4:132821959-132835705	11.747
Twf2	290	0	4.833565	170	2.833333	32.6452	15.24619	Stalled	chr9:106103438-106117718	12.281
Dguok	290	0	4.833565	194	3.233333	6.28913	49.69565	Stalled	chr6:83430207-83458963	26.757
Mapkapk2	290	0	4.833565	1224	20.4	40.3303	12.34327	Stalled	chr1:132950280-132996120	43.841
Morn1	290	0	4.833565	212	3.533333	1.2575	49.36191	Stalled	chr4:154458685-154519616	58.932
BC031353	290	0	4.833565	774	12.9	6.3894	21.15855	Stalled	chr9:74798859-74880275	79.417
Inpp4a	290	0	4.833565	449	7.483333	1.53484	11.59662	Stalled	chr1:37354737-37467578	110.842
Filip1l	290	94	4.833565	1416	23.6	3.87511	0.935838	Stalled	chr16:57351389-57572909	219.521
2610528E23Rik	290	94	4.833565	1926	32.1	17.411	18.94183	Stalled	chr16:57302112-57608980	304.869
Cited2	289	64	4.816897	199	3.316667	36.0248	3.551682	Stalled	chr10:17441033-17445479	2.447
4931408C20Rik	289	147	4.816897	7	0.116667	0.020719	0.399657	Unclassified	chr1:26738646-26746305	5.66
Lipe	289	0	4.816897	656	10.93333	7.60344	1.680998	Elongating	chr7:26164545-26183006	16.462
Arid3b	289	68	4.816897	1148	19.13333	10.0955	1.363559	Elongating	chr9:57638315-57684041	43.727
Ly86	289	0	4.816897	1415	23.58333	63.7355	13.92575	Stalled	chr13:37435213-37510904	73.692
Slc25a42	288	0	4.80023	188	3.133333	2.31888	13.9138	Stalled	chr8:72708238-72738180	27.943
Dot1l	288	0	4.80023	2108	35.13333	17.2682	3.696745	Stalled	chr10:80215950-80257092	39.143
Src	288	0	4.80023	474	7.9	1.1294	0.894194	Stalled	chr2:157248028-157297574	47.547
Ogdh	288	0	4.80023	767	12.78333	20.0147	31.91273	Stalled	chr11:6189599-6259096	67.498
Commd1	288	0	4.80023	483	8.05	34.9189	29.90394	Stalled	chr11:22799727-22884284	82.558
Egflam	288	0	4.80023	181	3.016667	0.092501	0	Unclassified	chr15:7156119-7350304	192.186
Imp2l	288	0	4.80023	4057	67.61667	5.31651	118.2754	Stalled	chr12:41748676-43056573	1305.898
Dusp4	287	63	4.783563	585	9.75	11.9798	6.189181	Stalled	chr8:35868663-35882948	12.286
Slc4a8	287	0	4.783563	217	3.616667	1.39114	11.88316	Stalled	chr15:100590177-100654402	62.226
Mcl1	286	59	4.766895	484	8.066667	87.2033	4.897633	Stalled	chr3:95460642-95467101	4.46
Aip	286	0	4.766895	348	5.8	40.8972	3.766334	Stalled	chr19:4114445-4127827	11.383
Gusb	286	0	4.766895	257	4.283333	24.0668	9.304968	Stalled	chr5:130464890-130480698	13.809
Twsg1	286	0	4.766895	863	14.38333	13.4908	4.997255	Stalled	chr17:66272405-66302527	28.123

Ramp1	286	0	4.766895	113	1.883333	0.414961	1.127898	Unclassified	chr1:93074398-93121773	45.376
Plekhl1	286	0	4.766895	1133	18.883333	12.7931	10.73958	Stalled	chr11:103226405-103275978	47.574
Eef2k	286	0	4.766895	420	7	4.24945	10.14271	Stalled	chr7:127984396-128047515	61.12
Entpd1	286	0	4.766895	508	8.466667	1.94486	4.117287	Stalled	chr19:40732283-40816092	81.81
Camk1d	286	0	4.766895	2308	38.46667	2.87345	18.1748	Stalled	chr2:5214502-5637710	421.209
Slc35b2	285	0	4.750228	1076	17.933333	20.4745	0.847827	Elongating	chr17:45699100-45704618	3.519
Arhgdia	285	0	4.750228	532	8.866667	179.771	2.910082	Stalled	chr11:120438548-120444934	4.387
C330016O10Rik	285	0	4.750228	165	2.75	6.87571	2.315316	Elongating	chr11:51456590-51466575	7.986
Pgf	285	0	4.750228	71	1.183333	1.57606	4.664757	Stalled	chr12:86507590-86520235	10.646
Hyou1	285	0	4.750228	760	12.66667	56.9245	8.649738	Stalled	chr9:44185572-44200451	12.88
Poidip3	285	57	4.750228	897	14.95	41.0568	13.59559	Stalled	chr15:82956407-82981766	23.36
Nkd2	285	0	4.750228	31	0.516667	0.258554	4.683132	Unclassified	chr13:73956775-73987079	28.305
Rpl38	284	0	4.73356	503	8.383333	120.691	2.040966	Elongating	chr11:114527856-114533645	3.79
F630110N24Rik	284	0	4.73356	216	3.6	6.50049	2.83882	Stalled	chr10:80818314-80826780	6.467
Kat5	284	0	4.73356	346	5.766667	11.3443	4.19842	Stalled	chr19:5603417-5612029	6.613
Fasn	284	0	4.73356	2112	35.2	55.4287	3.634519	Stalled	chr11:120667271-120687861	18.591
Lig1	283	0	4.716893	291	4.85	6.86677	5.984798	Stalled	chr11:60511191-60527689	14.499
Infrg2	283	0	4.716893	814	13.56667	24.1443	6.577595	Stalled	chr16:91545338-91564252	16.915
mmu-mir-181d	282	0	4.700225	723	12.05	ND	ND	Stalled	chr8:86719832-86730841	11.01
Pascin2	282	0	4.700225	1301	21.683333	16.8869	11.40401	Stalled	chr15:83206036-83297036	89.001
Dopey2	282	0	4.700225	493	8.216667	2.07576	16.20655	Stalled	chr16:93710151-93810833	98.683
1110034A24Rik	281	68	4.683558	721	12.01667	53.4402	3.710038	Stalled	chr12:70290824-70301416	8.593
Ube2q1	281	0	4.683558	371	6.183333	28.4071	6.763742	Stalled	chr3:89575530-89587919	10.39
Chrna4	281	0	4.683558	27	0.45	0.050546	0	Unclassified	chr2:180757015-180775882	16.868
Sf3a1	281	0	4.683558	654	10.9	29.4757	6.464759	Stalled	chr11:4058356-4082544	22.189
Ankrd44	281	99	4.683558	2377	39.61667	6.39159	9.379598	Stalled	chr1:54702183-54985202	281.02
Trim46	280	0	4.66689	151	2.516667	1.50444	2.386762	Elongating	chr3:89038098-89051819	11.722
Mettl11a	280	0	4.66689	537	8.95	12.9397	6.292899	Stalled	chr2:30661496-30678534	15.039
Xrcc1	280	0	4.66689	438	7.3	40.1131	6.605129	Stalled	chr7:25330168-25358457	26.29
Gnptab	280	49	4.66689	1085	18.083333	5.27463	7.610248	Stalled	chr10:87840156-87910074	67.919
Abhd2	280	0	4.66689	604	10.06667	5.07193	16.42297	Stalled	chr7:86416151-86506487	88.337
Acot7	280	0	4.66689	416	6.933333	16.0226	27.89484	Stalled	chr4:151550208-151645963	93.756
Apool	279	94	4.650223	158	2.633333	6.79532	10.73706	Stalled	chrX:109423016-109486039	61.024
Ryr1	279	0	4.650223	1076	17.933333	0.534732	0.504728	Stalled	chr7:29788358-29912170	121.813
Farp1	279	0	4.650223	640	10.66667	0.174083	1.39296	Unclassified	chr14:121432795-121682948	248.154
Ndufs7	278	0	4.633555	181	3.016667	70.7326	6.127307	Stalled	chr10:79710196-79719537	7.342
Etfb	278	0	4.633555	186	3.1	77.2618	12.60021	Stalled	chr7:50697512-50713152	13.641
Lmnb1	278	0	4.633555	1322	22.033333	81.8268	12.82974	Stalled	chr18:56865466-56913079	45.614
Setd4	277	0	4.616888	211	3.516667	5.51843	28.31692	Stalled	chr16:93583705-93606060	20.356
St8sia4	277	247	4.616888	1223	20.383333	15.5996	24.12373	Stalled	chr1:97484260-97566171	79.912
Mdga2	277	122	4.616888	342	5.7	0.034525	2.059596	Unclassified	chr12:67572171-68324190	750.02
Ift140	276	0	4.60022	1042	17.36667	13.2029	16.5645	Stalled	chr17:25151030-25236442	83.413
AI413582	275	0	4.583553	450	7.5	18.6261	0.689729	Elongating	chr17:27700713-27704672	1.96
Fam43a	275	0	4.583553	260	4.333333	22.8985	2.614051	Stalled	chr16:30597808-30602883	3.076
Lonp1	275	0	4.583553	2025	33.75	40.1504	1.037163	Elongating	chr17:56753721-56768326	12.606
Snx32	275	0	4.583553	920	15.333333	3.71997	0.821549	Stalled	chr19:5495277-5512489	15.213
Pcnx12	275	0	4.583553	199	3.316667	0.053313	0.422832	Unclassified	chr8:128275407-128424193	146.787
Srgap3	275	0	4.583553	427	7.116667	0.415344	2.438703	Unclassified	chr6:112667965-112899260	229.296
Pik1	274	0	4.566885	237	3.95	45.5936	7.009901	Stalled	chr7:129300950-129313389	10.44
Map3k12	274	0	4.566885	1268	21.133333	1.27584	0.599427	Stalled	chr15:102328077-102349435	19.359
Rap1gap	274	0	4.566885	621	10.35	4.64327	0.423541	Stalled	chr4:137235617-137285782	48.166
Itm2c	273	0	4.550218	307	5.116667	27.0345	3.542709	Stalled	chr1:87789084-87805273	14.19
Prodh	273	0	4.550218	84	1.4	1.05804	3.93351	Stalled	chr16:18071818-18091283	17.466
Sphk2	272	0	4.533551	424	7.066667	18.61	7.913211	Stalled	chr7:52965630-52975285	7.656
Nacad	272	0	4.533551	274	4.566667	0.41378	0.282908	Stalled	chr11:6497825-6508057	8.233
Man2c1	272	0	4.533551	538	8.966667	12.731	8.619171	Stalled	chr9:56976583-56990017	11.435
Tex22	272	0	4.533551	30	0.6	7.56554	69.5202	Stalled	chr12:114310712-114327125	14.414
Xrcc6	272	0	4.533551	544	9.066667	15.3498	19.0405	Stalled	chr15:81844798-81870514	23.717
Picd3	272	0	4.533551	741	12.35	4.11988	1.613925	Elongating	chr11:102931609-102964972	31.364
Cldn10a	272	0	4.533551	183	3.05	4.69197	0	Unclassified	chr14:119185092-119273746	86.655
D18Erd653e	272	0	4.533551	635	10.583333	0.930079	3.359783	Unclassified	chr18:68090910-68415203	322.294
Snd1	272	0	4.533551	7424	123.733333	57.6349	20.60458	Stalled	chr6:28428347-28838832	408.486
Junb	271	0	4.516883	460	7.666667	139.757	1.069599	Elongating	chr8:87500810-87504617	1.808
Lrdd	271	0	4.516883	72	1.2	7.54248	2.634213	Stalled	chr7:148624413-148631254	4.842
Nol9	271	0	4.516883	799	13.1667	20.6982	6.426823	Stalled	chr4:151411435-151435603	22.169
Pqic1	271	0	4.516883	281	4.683333	10.034	18.35813	Stalled	chr18:80451044-80489463	36.42
Clstn1	271	0	4.516883	304	5.066667	2.32826	2.316134	Unclassified	chr4:148958746-149022008	61.263
Cd44	271	49	4.516883	4583	76.383333	27.365	5.441345	Stalled	chr2:102651299-102743822	90.524
AI118078	271	0	4.516883	274	4.566667	0.074545	20.67806	Stalled	chr9:55172755-55286151	111.397
Spata2L	270	0	4.500216	42	0.7	2.74621	1.905034	Elongating	chr8:125756157-125762109	3.953
Tbxa2r	270	0	4.500216	131	2.183333	5.73585	4.308349	Stalled	chr10:80789475-80797917	6.443
Prdm1	270	308	4.500216	1040	17.333333	6.60794	2.8048	Elongating	chr10:44156980-44180493	21.514
Rab43	270	0	4.500216	602	10.033333	22.7707	10.82468	Stalled	chr6:87738846-87763773	22.928
Bin3	270	0	4.500216	801	13.35	11.9413	7.429733	Stalled	chr14:70497951-70538013	38.063
Fam129b	270	0	4.500216	289	4.816667	1.61111	3.711267	Stalled	chr2:32729653-32780773	49.121
Med22	269	0	4.483548	84	1.4	10.7972	20.55348	Stalled	chr2:26760786-26768162	5.377
Cxcr7	269	0	4.483548	227	3.783333	3.5028	6.962986	Stalled	chr1:92098577-92112863	12.287
Mzf1	269	0	4.483548	60	1	2.15071	12.03035	Stalled	chr7:13627651-13642113	12.463
Msh5	269	0	4.483548	172	2.866667	2.55103	26.35591	Stalled	chr17:35165551-35185551	18.001
Ptprv	269	0	4.483548	279	4.65	0.830473	16.04411	Stalled	chr1:137005074-137031152	24.079
Trp73	269	0	4.483548	312	5.2	1.37201	2.94068	Unclassified	chr4:153430357-153516317	83.961
Bsn	269	0	4.483548	502	8.366667	0.51984	0.470451	Stalled	chr9:107998352-108094714	94.363
Dusp1	268	0	4.466881	50	0.833333	12.2593	16.06966	Stalled	chr17:26642536-26647417	2.882
Rbm15	268	0	4.466881	255	4.25	13.2686	9.537229	Stalled	chr3:107129027-107138207	7.181
Hspa12a	268	0	4.466881	178	2.966667	0.393268	3.182117	Unclassified	chr19:58870240-58937474	65.235
Cdt1	267	0	4.450213	504	8.4	20.3287	6.020131	Stalled	chr8:125089914-125097030	5.117

BC017643	267	0	4.450213	346	5.766667	0	4.052508	Stalled	chr11:121083902-121092579	6.678
H2-Ob	267	0	4.450213	412	6.866667	58.0508	1.767	Elongating	chr17:34373849-34382853	7.005
Arf1	267	0	4.450213	786	13.1	105.773	8.448198	Stalled	chr11:59024913-59043664	16.752
Dhx34	267	0	4.450213	376	6.266667	3.74816	11.01866	Stalled	chr7:16782569-16809381	24.813
Znfx1	267	0	4.450213	848	14.13333	10.0423	21.29464	Stalled	chr2:166861296-166890515	27.22
Hcls1	267	0	4.450213	761	12.68333	210.345	7.289413	Stalled	chr16:36933068-36963298	28.231
Rgs8	267	0	4.450213	105	1.75	0.103785	0	Unclassified	chr1:155498166-155544795	44.63
Cradd	267	82	4.450213	3684	61.4	4.53556	7.045344	Stalled	chr10:94637379-94788731	149.353
Fkbp2	266	0	4.433546	258	4.3	84.0702	3.497615	Stalled	chr19:7052230-7056930	2.701
Capg	266	0	4.433546	508	8.466667	150.225	4.806823	Stalled	chr6:72492432-72512974	18.543
Vps37c	266	0	4.433546	402	6.7	5.62406	17.36123	Stalled	chr19:10761304-10788909	25.606
Grap2	266	0	4.433546	401	6.683333	10.9003	0.725847	Stalled	chr15:80451912-80480728	26.817
Unc119	265	0	4.416878	88	1.466667	10.105	4.203808	Stalled	chr11:78155023-78162658	5.636
Dnajc17	265	0	4.416878	345	5.75	7.19961	22.73541	Stalled	chr2:118998242-119036531	36.29
Myo7a	265	0	4.416878	425	7.083333	3.03945	0.410826	Stalled	chr7:105199569-105270003	68.435
Ify122	265	0	4.416878	254	4.233333	1.75639	25.88884	Stalled	chr6:115801545-115876717	73.173
Tha1	264	0	4.400211	386	6.433333	4.4714	1.289598	Elongating	chr11:117729262-117736840	5.579
Gnb2l1	264	0	4.400211	654	10.9	1016.77	5.187719	Stalled	chr11:48611861-48619743	5.883
Trim41	264	0	4.400211	1482	24.7	22.4432	2.450403	Elongating	chr11:48619905-48632893	10.989
Itgb7	264	0	4.400211	162	2.7	4.27464	2.280035	Elongating	chr15:102046425-102064366	15.942
Itfg3	264	0	4.400211	69	1.15	2.6811	17.75058	Stalled	chr17:26349657-26383086	31.43
Zfp362	264	0	4.400211	1443	24.05	21.4972	2.388556	Elongating	chr4:128450328-128485356	33.029
Ndufs8	263	0	4.383543	107	1.783333	72.492	8.84404	Stalled	chr19:3908869-3914717	3.849
Ndufa13	263	0	4.383543	228	3.8	57.0164	5.579468	Stalled	chr8:72418080-72428457	8.378
Dbnl	263	89	4.383543	461	7.683333	53.5262	12.65501	Stalled	chr11:5686485-5700983	12.499
Actr1a	263	0	4.383543	271	4.516667	38.4974	7.692195	Stalled	chr19:46451303-46472225	18.923
Zmat5	263	0	4.383543	224	3.733333	16.0931	29.9918	Stalled	chr11:4602680-4637669	32.99
Tfdp1	263	0	4.383543	2734	45.56667	51.1239	1.563502	Elongating	chr8:13337673-13377702	38.03
Cdk5rap3	262	0	4.366876	164	2.733333	22.7386	11.38656	Stalled	chr11:96769099-96779795	8.697
1700029H14Rik	262	0	4.366876	83	1.383333	0.1166	4.345487	Stalled	chr8:13550732-13564448	11.717
Srgn	262	0	4.366876	971	16.18333	138.131	3.347652	Stalled	chr10:61957175-61972503	13.329
Tle2	262	0	4.366876	25	0.416667	1.75285	7.646318	Stalled	chr10:81036276-81053590	15.315
Sic15a4	262	0	4.366876	1054	17.56667	13.586	6.017463	Stalled	chr5:128076035-128099762	21.728
Upb1	262	0	4.366876	127	2.116667	0.741293	0.808303	Unclassified	chr10:74867778-74902940	33.163
Chst15	262	0	4.366876	385	6.416667	1.77877	13.40574	Stalled	chr7:139427937-139510838	80.902
Erp29	261	0	4.350208	774	12.9	147.565	4.589796	Stalled	chr5:121894761-121904483	7.723
Per1	261	0	4.350208	467	7.783333	7.82929	3.144962	Stalled	chr11:68910457-68923457	11.001
Stambp	261	0	4.350208	275	4.583333	3.01318	10.72996	Stalled	chr6:83493200-83524498	29.299
Arhgap25	261	0	4.350208	1618	26.96667	40.7318	3.496328	Stalled	chr6:87409378-87448294	36.917
Add1	261	0	4.350208	320	5.333333	25.2078	51.70654	Stalled	chr5:34914362-34974954	58.593
Arhgef3	261	0	4.350208	1117	18.61667	3.63536	9.003032	Stalled	chr14:28049224-28217090	165.867
Fam40a	260	0	4.333541	254	4.233333	11.62	13.09163	Stalled	chr3:107415449-107436628	19.18
Lrrc50	260	0	4.333541	208	3.466667	1.93184	9.65203	Stalled	chr8:122097134-122122354	23.221
Nacc2	260	0	4.333541	146	2.433333	0.460893	1.873316	Unclassified	chr2:25911055-25980331	67.277
Dscaml1	260	0	4.333541	519	8.65	0.026061	2.299122	Unclassified	chr9:45236375-45561796	323.422
Ddit4	259	0	4.316874	98	1.633333	88.7014	4.693664	Stalled	chr10:59412422-59416518	2.097
Mrp121	259	0	4.316874	203	3.383333	20.7742	9.381809	Stalled	chr19:3281046-3292837	9.792
Rinl	259	0	4.316874	278	4.633333	6.91136	1.692651	Elongating	chr7:29571987-29583982	9.996
Klhdc5	259	0	4.316874	259	4.316667	6.21084	10.36342	Stalled	chr6:147037596-147061300	21.705
Fam83g	259	0	4.316874	175	2.916667	1.38475	9.101382	Stalled	chr11:61495911-61523452	25.542
Tsc2	259	0	4.316874	305	5.083333	6.1113	13.09606	Stalled	chr17:24732881-24771574	36.694
Letm1	259	0	4.316874	403	6.716667	20.3933	23.21005	Stalled	chr5:34084000-34127353	41.354
Trappc3	258	0	4.300206	106	1.766667	32.4835	13.79878	Stalled	chr4:125937648-125953127	13.48
Cep250	258	0	4.300206	500	8.333333	8.78757	14.05261	Stalled	chr2:155780293-155824636	42.344
Cep164	258	0	4.300206	370	6.166667	4.07899	9.441734	Stalled	chr9:45575028-45638721	61.694
Thbd	257	0	4.283539	9	0.15	1.12012	3.712262	Unclassified	chr2:148230206-148235924	3.719
Psmb9	257	0	4.283539	388	6.466667	152.426	5.633453	Stalled	chr17:34319043-34326275	5.233
Gnb3	257	0	4.283539	208	3.466667	1.27727	4.072876	Stalled	chr6:124784257-124792293	6.037
Snx33	257	0	4.283539	68	1.133333	3.93357	9.499815	Stalled	chr9:56765006-56781878	11.173
Trpm5	257	0	4.283539	177	2.95	0.046786	0.333199	Stalled	chr7:150257433-150282547	23.115
Bend5	257	0	4.283539	1256	20.93333	20.0982	4.932966	Stalled	chr4:111085610-111132530	44.921
4930572J05Rik	256	0	4.266871	61	1.016667	23.8366	4.679337	Stalled	chr15:74549663-74554803	3.141
Ino80e	256	0	4.266871	403	6.716667	39.4396	3.790965	Stalled	chr7:133995946-134006977	9.032
Scn2b	256	0	4.266871	50	0.833333	0.219131	0.365906	Unclassified	chr9:44923958-44938153	12.196
Dbn1	256	0	4.266871	69	1.15	0.274813	0.812243	Unclassified	chr13:55575147-55591529	14.383
Cage1	256	0	4.266871	145	2.416667	0.941717	49.04635	Stalled	chr13:38097920-38130806	30.887
Galnt6	256	0	4.266871	545	9.083333	3.56962	6.32835	Stalled	chr15:100520346-100561807	39.462
Lfng	255	0	4.250204	523	8.716667	26.0064	3.696737	Stalled	chr5:141081294-141091499	8.206
Gimap8	255	57	4.250204	391	6.516667	27.4124	3.696023	Stalled	chr6:48595232-48610874	13.643
Orai1	255	0	4.250204	307	5.116667	10.6682	15.61584	Stalled	chr5:123463082-123480461	15.38
Ncf2	255	0	4.250204	883	14.71667	17.7115	2.775957	Elongating	chr1:154653019-154684120	29.102
Snx9	255	0	4.250204	1495	24.91667	21.602	12.9989	Stalled	chr17:5839379-5930711	89.333
Nsmce2	255	88	4.250204	1644	27.4	12.6296	14.89339	Stalled	chr15:59203752-59433238	227.487
Socs1	254	0	4.233536	227	3.783333	62.6626	2.320851	Unclassified	chr16:10783901-10787629	1.729
Tnf	254	0	4.233536	390	6.5	12.6234	1.71941	Elongating	chr17:35336335-35340941	2.607
Pfn1	254	15	4.233536	480	8	1151.48	2.350097	Stalled	chr11:70465350-70470152	2.803
Fam100a	254	0	4.233536	265	4.416667	25.6775	4.677381	Stalled	chr16:4874779-4881851	5.073
Myi4	254	0	4.233536	340	5.666667	14.0622	17.98929	Stalled	chr11:104409976-104448533	36.558
Chid1	254	0	4.233536	224	3.733333	4.22846	55.26198	Stalled	chr7:148679035-148727756	46.722
Cdc42se2	254	71	4.233536	1289	21.48333	26.0707	17.03823	Stalled	chr11:54530916-54603205	70.29
Grccl0	253	53	4.216869	27	0.45	143.199	30.70707	Unclassified	chr6:124689201-124693097	1.897
Gpr152	253	0	4.216869	55	0.916667	0.568217	0.412308	Stalled	chr19:4137798-4145740	5.943
Gfi1	253	0	4.216869	101	1.683333	3.07948	5.840358	Stalled	chr5:108145673-108155363	7.691
Cstf1	253	0	4.216869	300	5	17.2504	7.96556	Stalled	chr2:172194502-172206586	10.085
1300014I06Rik	253	0	4.216869	858	14.3	9.41826	6.840257	Stalled	chr13:34719709-34746550	24.842
Trim14	253	0	4.216869	737	12.28333	12.3211	11.46309	Stalled	chr4:46519718-46551016	29.299

Hps4	253	0	4.216869	312	5.2	6.67508	16.65302	Stalled	chr5:112770114-112807443	35.33
Slc25a37	253	0	4.216869	500	8.333333	6.6966	8.649441	Stalled	chr14:69859907-69905160	43.254
Uck2	253	0	4.216869	2009	33.48333	38.8509	8.592544	Stalled	chr1:169156216-169217258	59.043
Acap2	253	0	4.216869	913	15.21667	6.62005	26.08989	Stalled	chr16:31092498-31203324	108.827
8430427H17Rik	253	0	4.216869	414	6.9	0.588508	0.68072	Unclassified	chr2:153233197-153357707	122.511
Cugbp2	253	55	4.216869	2432	40.53333	6.49477	0.260359	Unclassified	chr2:6460743-7319825	857.083
Tssk6	252	0	4.200201	77	1.283333	6.70737	0.804864	Unclassified	chr8:72424113-72427417	1.305
Bet1l	252	0	4.200201	71	1.183333	12.2449	8.634334	Stalled	chr7:148039282-148044282	3.001
Irf7	252	0	4.200201	226	3.766667	19.9211	1.50372	Elongating	chr7:148449087-148454300	3.214
Mrpl49	252	62	4.200201	510	8.5	17.4361	3.23789	Stalled	chr19:6053629-6059751	4.123
Rrp9	252	0	4.200201	277	4.616667	36.0933	3.327481	Stalled	chr9:106377639-106387746	8.108
Itprlp	252	0	4.200201	711	11.85	8.6119	6.001225	Stalled	chr19:47969085-47995789	24.705
Ip6k1	252	0	4.200201	783	13.05	23.0232	16.35094	Stalled	chr9:107902978-107951113	46.136
Tom1l2	252	46	4.200201	512	8.533333	3.26212	16.30749	Stalled	chr11:60040215-60168407	126.193
Ric8	251	0	4.183534	101	1.683333	14.325	16.30868	Stalled	chr7:148041295-148049630	6.336
Tgif1	251	0	4.183534	530	8.833333	22.3635	3.809106	Stalled	chr17:71193546-71202550	7.005
Elk4	251	0	4.183534	677	11.28333	4.92559	11.00046	Stalled	chr1:133902181-133922261	18.081
BC004004	251	0	4.183534	825	13.75	13.0029	10.95522	Stalled	chr17:29403732-29439832	34.101
Wdr1	251	0	4.183534	2001	33.35	60.7397	6.292627	Stalled	chr5:38918051-38954834	34.784
Dusp22	251	204	4.183534	788	13.13333	2.94222	27.33447	Stalled	chr13:30749964-30803094	51.131
Hipk1	251	0	4.183534	578	9.633333	7.40383	24.24892	Stalled	chr3:103543737-103597198	51.462
Ascc1	251	0	4.183534	383	6.383333	11.1085	84.88179	Stalled	chr10:59463586-59562734	97.149
Clasp1	251	0	4.183534	3873	64.55	8.3887	16.35195	Stalled	chr1:120283634-120506039	220.406
Gadd45g	250	90	4.166866	433	7.216667	115.4	1.068283	Elongating	chr13:51940043-51943841	1.799
Wdr83	250	0	4.166866	307	5.116667	19.7513	2.071396	Elongating	chr8:87598933-87606645	5.713
Guk1	250	0	4.166866	123	2.05	15.1156	11.45889	Stalled	chr11:58997356-59007454	8.099
Map2k2	250	0	4.166866	761	12.68333	42.1846	13.4949	Stalled	chr10:80566691-80587442	18.752
Dazap1	250	0	4.166866	937	15.61667	67.9172	5.399014	Stalled	chr10:79725735-79751158	23.424
Ndufb10	249	0	4.150199	495	8.25	112.969	0.562442	Stalled	chr17:24859011-24863333	2.323
Dalrd3	249	0	4.150199	118	1.966667	24.1442	3.561757	Stalled	chr9:108470222-108475102	2.881
Slc25a19	249	0	4.150199	1313	21.88333	86.504	3.779999	Stalled	chr11:115476296-115491453	13.158
Cicn4-2	249	70	4.150199	275	4.583333	7.6206	8.788298	Stalled	chr7:7235026-7254222	17.197
Rcc2	249	0	4.150199	1836	30.6	134.956	2.480521	Elongating	chr4:140255456-140277390	19.935
Dap	249	0	4.150199	613	10.21667	20.239	5.324773	Stalled	chr15:31152139-31204093	49.955
Flt3	249	0	4.150199	905	15.08333	15.1342	13.83825	Stalled	chr5:148142316-148214065	69.75
Lrrk1	249	0	4.150199	1611	26.85	6.16807	11.67982	Stalled	chr7:73403632-73535227	129.596
Mbd4	248	0	4.133531	150	2.5	4.93694	9.726254	Stalled	chr6:115790714-115805359	12.646
Uckl1	248	0	4.133531	270	4.5	13.0239	8.179288	Stalled	chr2:181303858-181318678	12.821
Caskin1	248	0	4.133531	202	3.666667	0.238936	0.172987	Stalled	chr17:24623727-24645852	20.126
Arhgap30	248	60	4.133531	1237	20.61667	75.9064	7.048494	Stalled	chr1:173317090-173340368	21.279
Tmem201	248	0	4.133531	377	6.283333	4.59826	4.996799	Stalled	chr4:149089492-149114143	22.652
AI413782	248	0	4.133531	141	2.35	8.35938	41.96722	Stalled	chr12:88579824-88609236	27.413
Tmco3	248	0	4.133531	182	3.033333	3.86477	35.34028	Stalled	chr8:13286012-13322924	34.913
Dkk3	248	0	4.133531	199	3.316667	2.87861	1.395287	Unclassified	chr7:119259532-119304571	43.04
Sipa1l2	248	0	4.133531	227	3.783333	0.708718	0.489933	Unclassified	chr8:127941962-128018610	74.649
Myom1	248	0	4.133531	140	2.333333	0.125583	1.294769	Unclassified	chr17:17366896-71476196	107.301
Lipc	248	0	4.133531	327	5.45	1.64784	0	Unclassified	chr9:70645934-70784615	136.682
Lrpc3	247	0	4.116864	375	6.25	177.155	4.300691	Stalled	chr5:122839936-122856187	14.252
Acox3	247	0	4.116864	649	10.81667	10.4371	3.987685	Stalled	chr5:35923708-35956450	30.743
Unk	247	77	4.116864	960	16	11.3449	9.989447	Stalled	chr11:115889635-115922508	30.874
Itgb4	247	0	4.116864	489	8.15	0.340774	0.438607	Stalled	chr11:115834038-115869725	33.688
Npc1	247	0	4.116864	342	5.7	4.22622	7.07166	Stalled	chr18:12348202-12396895	46.694
Mocos	247	0	4.116864	69	1.15	1.71931	20.22448	Stalled	chr18:24810191-24860057	47.867
Ak5	247	0	4.116864	410	6.833333	0.462364	0.332603	Unclassified	chr3:152125778-152333104	205.327
Ndufaf3	246	0	4.100196	90	1.5	23.7402	3.044077	Unclassified	chr9:108468195-108471673	1.479
Htra2	246	0	4.100196	133	2.216667	49.3924	8.088453	Stalled	chr6:83001262-83006565	3.304
Rhdbf1	246	0	4.100196	165	2.75	1.19719	1.457753	Elongating	chr11:32109585-32124293	12.709
Lbh	246	0	4.100196	433	7.216667	17.8957	22.76013	Stalled	chr17:73265644-73291286	23.643
Tyk2	246	0	4.100196	409	6.816667	12.1128	12.94765	Stalled	chr9:20908511-20937719	27.209
Nppla6	246	0	4.100196	283	4.716667	9.59736	6.458079	Stalled	chr8:3513383-3544267	28.885
Recql5	246	0	4.100196	571	9.516667	8.33059	6.18644	Stalled	chr11:115753990-115796320	40.331
Mfsd4	246	57	4.100196	600	10	3.15085	0.694633	Stalled	chr1:133923197-133966639	41.443
Ahdcl1	246	0	4.100196	432	7.2	2.52706	8.569812	Stalled	chr4:132565420-132634025	66.606
Tram2	246	228	4.100196	953	15.88333	7.86415	10.22119	Stalled	chr1:20991458-21071290	77.833
Crip2	245	0	4.083529	18	0.3	1.71216	5.560395	Stalled	chr12:114376446-114383715	5.27
Arl6ip1	245	0	4.083529	259	4.316667	65.128	20.57799	Stalled	chr7:125262404-125275139	10.736
Ccdc134	245	0	4.083529	533	8.883333	23.6665	9.65244	Stalled	chr15:81956351-81972632	14.282
Hsp90b1	245	203	4.083529	835	13.91667	429.065	8.897868	Stalled	chr10:86153585-86170189	14.605
Tnk2	245	0	4.083529	319	5.316667	11.9174	3.076088	Stalled	chr16:32642728-32683579	38.852
Rnf121	245	0	4.083529	338	5.633333	7.69822	20.61057	Stalled	chr7:109168385-109215646	45.262
Runx3	245	0	4.083529	2031	33.85	22.2134	1.511695	Elongating	chr4:134674559-134733905	57.347
Aprt	244	0	4.066862	132	2.2	85.6115	2.309742	Stalled	chr8:125098536-125102807	2.272
Yipf2	244	0	4.066862	235	3.916667	13.508	3.464392	Stalled	chr9:21393125-21399190	4.066
Dapk3	244	0	4.066862	540	9	26.8466	0.671119	Stalled	chr10:80644749-80655743	8.995
Dph1	244	0	4.066862	440	7.333333	0	3.878825	Stalled	chr11:74991144-75005985	12.842
S1pr3	244	0	4.066862	328	5.466667	3.22567	3.669301	Stalled	chr13:51502132-51518166	14.035
Mfsd2a	244	0	4.066862	1013	16.88333	5.1117	5.392026	Stalled	chr4:122624097-122640431	14.335
Ggt5	244	0	4.066862	129	2.15	0.210576	1.708925	Unclassified	chr10:75050125-75079713	27.589
Tcf25	244	0	4.066862	1156	19.26667	56.0205	11.46677	Stalled	chr8:125895652-125928073	30.422
Tst	243	0	4.050194	14	0.233333	2.15132	11.54157	Stalled	chr15:78229985-78238289	6.305
Ckap4	243	0	4.050194	215	3.583333	29.0534	4.754834	Stalled	chr10:83989049-83998633	7.585
Fxyd5	243	0	4.050194	286	4.766667	59.6952	3.50345	Stalled	chr7:31817741-31829341	9.601
Necap2	243	0	4.050194	525	8.75	47.629	5.176051	Stalled	chr4:140622427-140636260	11.834
Prpf31	243	0	4.050194	577	9.616667	24.7559	3.184945	Stalled	chr7:3579586-3594084	12.499
Atp6v0a1	243	61	4.050194	1071	17.85	13.3627	11.65406	Stalled	chr11:100868768-100925028	54.261
Fkbp15	243	0	4.050194	878	14.63333	16.8479	20.97406	Stalled	chr4:61961375-62023582	60.208

4922505G16Rik	243	0	4.050194	97	1.616667	1.58159	135.3903	Stalled	chr2:157034285-157107285	71.001
Crif2	242	0	4.033527	358	5.966667	22.4115	1.199854	Elongating	chr5:109983729-109990012	4.284
3110062M04Rik	242	0	4.033527	291	4.85	4.19563	4.754489	Stalled	chr6:34821770-34830065	6.296
Ppif	242	0	4.033527	154	2.566667	17.319	8.01528	Stalled	chr14:26511655-26519952	6.298
Sic29a3	242	0	4.033527	875	14.583333	4.56233	12.15613	Stalled	chr10:60174819-60217530	40.712
4933407H18Rik	242	0	4.033527	228	3.8	2.648	47.82213	Stalled	chr5:33719344-33762403	41.06
Gng12	242	0	4.033527	1577	26.28333	5.1163	6.334564	Stalled	chr6:66844449-66971288	124.84
Dock9	242	0	4.033527	1161	19.35	3.47076	1.010577	Stalled	chr14:121941260-122140151	196.892
Rps17	241	0	4.016859	255	4.25	181.232	2.074292	Stalled	chr7:88487618-88492120	2.503
Jun	241	22	4.016859	241	4.016667	29.5693	4.696515	Stalled	chr4:94715726-94720913	3.188
Trappc5	241	0	4.016859	274	4.566667	40.1065	2.931223	Stalled	chr8:3674476-3680921	4.446
Lrrc24	241	0	4.016859	321	5.35	17.669	0.667677	Stalled	chr15:76545705-76554603	6.899
Fam110a	241	0	4.016859	148	2.466667	7.32246	3.672196	Stalled	chr2:151795133-151807955	10.823
Hnrnpul2	241	0	4.016859	290	4.833333	46.3584	15.20248	Stalled	chr19:8891890-8908632	14.743
Pank4	241	0	4.016859	766	12.76667	15.4392	3.962589	Stalled	chr4:154336241-154355046	16.806
B3gnt2	241	0	4.016859	684	11.4	7.97266	13.35486	Stalled	chr11:22734738-22761735	24.998
Rrp15	241	0	4.016859	380	6.333333	38.8475	14.26401	Stalled	chr1:18854964-188575237	28.274
Mosc2	241	0	4.016859	257	4.283333	25.6088	18.37873	Stalled	chr1:186636946-186671726	32.781
Mare	241	0	4.016859	539	8.983333	7.59448	17.77871	Stalled	chr11:32132418-32169614	35.197
Snx1	241	0	4.016859	314	5.233333	24.2432	20.8578	Stalled	chr9:65935933-65974693	36.761
Zcchc2	241	0	4.016859	750	12.5	8.13652	14.37376	Stalled	chr1:107884982-107930654	43.673
Coro7	241	0	4.016859	1487	24.78333	26.0917	6.198308	Stalled	chr16:4626883-4681720	52.838
Gramd3	241	0	4.016859	1745	29.08333	22.7818	1.906984	Elongating	chr18:56589785-56663446	71.662
Sic3a2	240	0	4.000192	521	8.683333	48.4853	4.886514	Stalled	chr19:8781371-8790387	7.017
BC005764	240	0	4.000192	718	11.96667	0.586135	0.060906	Stalled	chr10:79327526-79339379	9.854
Tjp3	240	0	4.000192	160	2.666667	1.19833	0.481987	Stalled	chr10:80735944-80756012	18.069
Man2b2	240	0	4.000192	508	8.466667	14.2919	4.474344	Stalled	chr5:37198051-37223888	23.838
Sic2a1	240	0	4.000192	700	11.66667	17.1928	14.78662	Stalled	chr4:118779349-118809934	28.586
Ezr	240	0	4.000192	1542	25.7	60.577	12.49806	Stalled	chr17:6942479-6989129	44.651
Casp8	240	0	4.000192	1098	18.3	27.6254	7.742193	Stalled	chr1:58850217-58904347	52.131
Phf2	240	0	4.000192	869	14.48333	13.8449	6.398183	Stalled	chr13:48897119-48968254	69.136
Copp2	240	0	4.000192	251	4.183333	4.31116	42.16888	Stalled	chr6:30698410-30848760	148.351
Pip5k1l	239	0	3.983524	53	0.883333	0.888088	4.063224	Stalled	chr2:32429338-32439298	7.961
Selp	239	0	3.983524	92	1.533333	0.351064	0.427942	Unclassified	chr1:166051832-166079875	26.044
Arid1a	239	106	3.983524	2573	42.88333	24.5466	5.200676	Stalled	chr4:133234922-133311526	74.605
Sipa1l1	239	0	3.983524	1284	21.4	8.2299	1.17548	Stalled	chr12:83410335-83552769	140.435
Rps12	238	0	3.966857	151	2.516667	0	3.803278	Stalled	chr10:23504989-23509015	2.027
Psmb10	238	0	3.966857	154	2.566667	69.7307	0.824085	Elongating	chr8:108459627-108464292	2.666
Ndufa11	238	0	3.966857	173	2.883333	13.7432	6.148347	Stalled	chr17:5685184-56863670	6.487
Pmm2	238	0	3.966857	669	11.15	12.6221	8.098677	Stalled	chr16:8635799-8657617	19.819
N4bp2l1	238	0	3.966857	266	4.433333	7.33405	7.373623	Stalled	chr5:151374217-151399100	22.884
Psd4	238	0	3.966857	1110	18.5	28.2911	2.682445	Elongating	chr2:24238916-24264249	23.334
Sp1	238	37	3.966857	439	7.316667	7.62402	14.29362	Stalled	chr15:102234746-102266835	30.09
Ido2	238	0	3.966857	735	12.25	2.41729	0.111615	Stalled	chr8:25642363-25688805	44.443
Madd	238	0	3.966857	422	7.033333	11.9273	11.66611	Stalled	chr2:90977516-91025135	45.62
Ubp2	238	0	3.966857	1459	24.31667	17.4137	17.89589	Stalled	chr4:41141347-41224168	80.822
Btrc	238	0	3.966857	530	8.833333	1.83078	22.92842	Stalled	chr19:45436223-45607833	169.611
Samd4	238	0	3.966857	320	5.333333	0.789796	4.503785	Unclassified	chr14:47500639-47725492	222.854
Mypop	237	0	3.950189	269	4.483333	8.04679	2.154038	Elongating	chr7:19574593-19587115	10.523
Zfp668	237	0	3.950189	305	5.083333	9.68343	13.56911	Stalled	chr7:135008872-135022337	11.466
Adc	237	0	3.950189	374	6.233333	8.14085	15.75171	Stalled	chr4:128609389-128641661	30.273
Ndrg1	237	0	3.950189	75	1.25	1.14416	20.98251	Stalled	chr15:66760879-66803203	40.325
Dnajc11	237	0	3.950189	1170	19.5	18.1787	7.296261	Stalled	chr4:151305828-151356068	48.241
Clp2	237	0	3.950189	529	8.816667	7.40528	7.768717	Stalled	chr5:134965255-135030304	63.05
C330019G07Rik	237	58	3.950189	681	11.35	3.243	17.44515	Stalled	chr5:33131855-33198879	65.025
Cytsa	237	0	3.950189	878	14.63333	6.70169	31.91251	Stalled	chr10:74672817-74775144	100.328
Vwf	237	0	3.950189	296	4.933333	0.079948	0.309566	Unclassified	chr6:125500980-125636695	133.716
Ier5	236	0	3.933522	356	5.933333	45.939	3.479989	Stalled	chr1:156943496-156948766	3.271
Sic35c1	236	0	3.933522	116	1.933333	12.2618	12.10836	Stalled	chr2:92292921-92301951	7.031
Tmem8	236	0	3.933522	75	1.25	1.75515	12.98967	Stalled	chr17:26248260-26260196	9.937
Cog7	236	0	3.933522	325	5.416667	7.37459	9.67148	Stalled	chr7:129066352-129127207	58.856
0610007P08Rik	236	83	3.933522	3992	66.53333	24.5111	19.26507	Stalled	chr13:63914627-64001609	84.983
Nck2	236	0	3.933522	1082	18.03333	4.27019	6.672078	Stalled	chr1:43500595-43627363	124.769
Hist1h1a	235	54	3.916854	0	0	6.84328	658	Unclassified	chr13:23853536-23856283	0.748
Men1	235	0	3.916854	145	2.416667	29.715	3.59761	Stalled	chr19:6333038-6340894	5.857
Sic35c2	235	0	3.916854	177	2.95	11.1295	7.460381	Stalled	chr2:165102055-165115327	11.273
Tomm40	235	0	3.916854	819	13.65	61.5138	3.862325	Stalled	chr7:20286661-20302778	14.118
Stgalnac2	235	0	3.916854	792	13.2	0.668239	0.419231	Stalled	chr11:116538018-116557974	17.957
5730437N04Rik	235	0	3.916854	452	7.533333	38.7845	6.266029	Stalled	chr17:5410863-5442260	29.398
Rrbp1	235	0	3.916854	2775	46.25	74.2172	6.247411	Stalled	chr2:143773130-143838999	63.87
Ampd2	234	0	3.900187	403	6.716667	15.9948	5.161759	Stalled	chr3:107876979-107891545	12.567
Tchp	234	0	3.900187	236	3.933333	8.03887	4.615308	Stalled	chr5:115155787-115172336	14.55
Dtx2	234	0	3.900187	457	7.616667	8.87341	12.80417	Stalled	chr5:136468746-136508734	37.989
Nup214	234	0	3.900187	1467	24.45	8.15774	14.53143	Stalled	chr2:31827969-31909495	79.527
Zcchc7	234	0	3.900187	1330	22.16667	7.29321	55.94573	Stalled	chr4:44767439-44945082	175.644
Fyn	234	0	3.900187	1666	27.76667	18.6188	18.3013	Stalled	chr10:39087604-39285180	195.577
Dusp2	233	0	3.883519	287	4.783333	43.7249	1.938658	Stalled	chr2:127159894-127164113	2.22
Lad1	233	0	3.883519	123	2.05	39.0722	4.925262	Stalled	chr1:137713174-137729918	14.745
Rnasel	233	0	3.883519	159	2.65	3.5831	2.794393	Elongating	chr1:155594555-155611350	14.796
Adamts12	233	0	3.883519	76	1.266667	0.063252	1.354357	Unclassified	chr2:26932900-26964133	29.234
H6pd	233	0	3.883519	337	5.616667	4.36962	24.75338	Stalled	chr4:149353589-149385132	29.544
Pkd1	233	0	3.883519	429	7.15	2.82773	25.92436	Stalled	chr17:24684894-24733459	46.566
Lcp1	233	0	3.883519	2639	43.98333	94.5342	0.341753	Stalled	chr14:75534231-75630610	94.38
Ospb2	233	0	3.883519	225	3.75	0.369043	3.728951	Unclassified	chr11:3603733-3765906	160.174
Cdk5rap2	233	95	3.883519	928	15.46667	3.75744	13.54513	Stalled	chr4:69884057-70073401	187.345
mmu-mir-191,r	232	0	3.866852	351	5.85	ND	ND	Elongating	chr9:108469481-108472090	2.61

Stra13	232	0	3.866852	118	1.966667	29.0746	2.120473	Stalled	chr11:120572254-120577081	2.828
Mus81	232	0	3.866852	87	1.45	12.8052	15.28862	Stalled	chr19:5482839-5490336	5.498
Nfe2	232	0	3.866852	768	12.8	0.591427	0.040041	Stalled	chr15:103078648-103087847	7.2
Insig1	232	74	3.866852	508	8.466667	54.6971	9.10594	Stalled	chr5:28395951-28405202	7.252
Tapbp	232	0	3.866852	465	7.75	84.006	3.925072	Stalled	chr17:34054422-34066235	9.814
Ttc34	232	0	3.866852	62	1.033333	0.176113	0.138039	Unclassified	chr4:154228308-154241236	10.929
Rnf31	232	0	3.866852	393	6.55	15.8009	5.362239	Stalled	chr14:56208626-56222508	11.883
Rhbdf2	232	0	3.866852	647	10.78333	6.56574	0.165108	Stalled	chr11:116459478-116490333	28.856
Serinc5	232	0	3.866852	528	8.8	6.54165	33.70402	Stalled	chr13:93379092-93481901	100.81
Ddcccag8	232	0	3.866852	1082	18.03333	7.68017	16.06285	Stalled	chr1:178742942-178950563	205.622
Gltpd1	231	0	3.850184	56	0.933333	10.7778	21.54715	Stalled	chr4:155238831-155245549	4.719
Prss42	231	0	3.850184	12	0.2	0.197808	0.550812	Unclassified	chr9:110698688-110706248	5.561
Srrm2	231	0	3.850184	2456	40.93333	53.6038	3.295512	Stalled	chr17:23938153-23961710	21.558
Hk2	231	0	3.850184	1443	24.05	12.6249	8.410129	Stalled	chr6:82675020-82726448	49.429
Mrv1	231	0	3.850184	255	4.25	0.113115	0.306745	Unclassified	chr7:118011780-118127609	113.83
Cd68	230	0	3.833517	69	1.15	5.86108	8.392407	Unclassified	chr11:69477872-69481564	1.693
Wnt1	230	0	3.833517	16	0.266667	0.378382	0.470356	Unclassified	chr15:98618287-98624261	3.975
Csf2ra	230	0	3.833517	463	7.716667	0	0.349712	Stalled	chr19:61300304-61306321	4.018
Ii10	230	146	3.833517	230	3.833333	5.54244	0.933796	Elongating	chr1:132914423-132921547	5.125
Bsg	230	0	3.833517	243	4.05	170.495	7.880007	Stalled	chr10:79165102-79174724	7.623
Slc15a3	230	0	3.833517	876	14.6	45.3877	2.970048	Stalled	chr19:10915033-10932404	15.372
Mfng	230	0	3.833517	502	8.366667	19.8994	6.292585	Stalled	chr15:78586312-78605875	17.564
Parvg	230	0	3.833517	574	9.566667	49.9056	5.166965	Stalled	chr15:84153149-84173408	18.26
Pkm2	230	0	3.833517	1535	25.58333	685.202	7.327327	Stalled	chr9:59502414-59527182	22.769
Vps37b	230	0	3.833517	1276	21.26667	15.6461	3.188092	Stalled	chr5:124454649-124484269	27.621
Dscr3	230	0	3.833517	283	4.716667	9.10359	32.40335	Stalled	chr16:94719330-94750236	28.907
A430078G23Rik	230	0	3.833517	347	5.783333	6.3594	6.654141	Stalled	chr8:3351414-3390297	36.884
1110059E24Rik	230	0	3.833517	540	9	13.0681	21.71942	Stalled	chr19:21671802-21729281	55.48
Usp12	230	0	3.833517	409	6.816667	5.53933	13.77116	Stalled	chr5:147546387-147608532	60.146
Vipr2	230	0	3.833517	137	2.283333	0.340759	0.990613	Unclassified	chr12:117314195-117384734	68.54
Lrp8	230	0	3.833517	1794	29.9	3.34617	3.624811	Stalled	chr4:107472863-107549445	74.583
Gpr176	230	0	3.833517	115	1.916667	0.358263	5.887827	Unclassified	chr2:118102845-118201047	96.203
Lrba	230	0	3.833517	1572	26.2	4.75315	74.8254	Stalled	chr3:86026611-86586616	558.006
Rpl11	229	0	3.81685	417	6.95	203.649	2.214401	Stalled	chr4:135605862-135611286	3.425
Lgals1	229	0	3.81685	106	1.766667	75.8589	1.336429	Elongating	chr15:78755154-78760895	3.742
Cd2bp2	229	0	3.81685	207	3.45	32.7141	6.704909	Stalled	chr7:134335173-134341514	4.342
Ddit3	229	0	3.81685	376	6.266667	23.7951	4.349301	Stalled	chr10:126725848-126733344	5.497
Coq2	229	0	3.81685	464	7.733333	10.6002	7.028251	Stalled	chr5:101083744-101105275	19.532
290010M23Rik	228	0	3.800182	525	8.75	54.5444	4.204115	Stalled	chr17:27259609-27272836	11.228
Nup85	228	0	3.800182	730	12.16667	26.511	6.095221	Stalled	chr11:115423757-115445226	19.47
Mast1	228	0	3.800182	359	5.983333	2.05924	0.383341	Stalled	chr8:87435751-87463252	25.502
Pkn1	228	0	3.800182	590	9.833333	38.1626	10.56815	Stalled	chr8:86193994-86225025	29.032
Fam149b	228	65	3.800182	352	5.866667	4.0121	19.3724	Stalled	chr14:21165383-21202713	35.331
Slc12a7	228	0	3.800182	278	4.633333	1.92078	11.66948	Stalled	chr13:73899144-73954190	53.047
Fanci	228	0	3.800182	539	8.983333	3.49348	18.72355	Stalled	chr7:86535223-86595150	57.928
Arrb1	228	0	3.800182	287	4.783333	1.4391	7.47552	Stalled	chr7:106681995-106755281	71.287
Mark3	228	0	3.800182	878	14.63333	17.0869	17.00732	Stalled	chr12:112810720-112894438	81.719
Mef2c	228	237	3.800182	8807	146.7833	45.053	0.036267	Stalled	chr13:83641032-83806684	163.653
Ltb	227	0	3.783515	170	2.833333	182.884	0.571429	Elongating	chr17:35329451-35333250	1.8
Adm	227	0	3.783515	43	0.716667	20.6359	6.314187	Stalled	chr7:117769182-117773333	2.152
Eif4a1	227	0	3.783515	847	14.11667	116.565	3.279147	Stalled	chr11:69480437-69487925	5.489
Ogfod2	226	0	3.766847	33	0.55	13.8742	8.343199	Stalled	chr5:124560346-124565485	3.14
Gem	226	0	3.766847	399	6.65	13.4902	6.497019	Stalled	chr4:11629593-11642140	10.548
Nfya	226	0	3.766847	810	13.5	16.8022	14.97736	Stalled	chr17:48526209-48551145	22.937
Ccnf	226	0	3.766847	574	9.566667	19.2074	15.32602	Stalled	chr17:24360176-24390354	28.179
Tmem104	226	0	3.766847	403	6.716667	2.30972	23.97205	Stalled	chr11:115046800-115108339	59.54
Jarid2	226	0	3.766847	2941	49.01667	8.53698	8.517274	Stalled	chr13:44824271-45016346	190.076
Rasl10a	225	0	3.75018	10	0.166667	2.11678	1.898286	Stalled	chr11:4956130-4960386	2.257
Fam113a	225	0	3.75018	133	2.216667	8.98158	19.29742	Stalled	chr2:130243419-130252377	6.959
Trmt1	225	0	3.75018	345	5.75	26.7019	2.346497	Elongating	chr8:87211145-87223707	10.563
Vps16	225	0	3.75018	441	7.35	20.5102	23.19685	Stalled	chr2:130248055-130270005	19.951
Dym	225	0	3.75018	1955	32.58333	7.54059	14.42875	Stalled	chr18:75176425-75446620	268.196
Tcf4	225	226	3.75018	3686	61.43333	9.98762	14.96247	Stalled	chr18:69502145-69847621	343.477
Ly6d	224	0	3.733512	43	0.716667	334.446	1.367591	Unclassified	chr15:74592485-74595997	1.513
Cd93	224	0	3.733512	93	1.55	5.55767	3.511862	Stalled	chr2:148262386-148271271	6.886
Cdcd84	224	0	3.733512	659	10.98333	9.7803	1.418664	Elongating	chr9:44218246-44228090	7.845
Zfyve27	224	0	3.733512	380	6.333333	4.9147	10.91192	Stalled	chr19:42243056-42269800	24.025
Cdcd12	224	0	3.733512	1006	16.76667	39.4404	11.73572	Stalled	chr9:110557006-110614096	55.091
Mpdu1	223	0	3.716845	188	3.133333	28.9432	11.70094	Stalled	chr11:69470205-69478144	5.94
Ctsa	223	0	3.716845	293	4.883333	25.6092	3.173007	Stalled	chr2:164656372-164666532	8.161
Pbxip1	223	0	3.716845	152	2.533333	14.2244	6.815431	Stalled	chr3:89238625-89254874	14.25
Ii10rb	223	0	3.716845	285	4.75	4.94812	18.99209	Stalled	chr16:91404479-91426078	19.6
1500010J02Rik	223	0	3.716845	285	4.75	7.1941	22.09616	Stalled	chr11:68827412-68849974	20.563
Rexo1	223	0	3.716845	907	15.11667	16.9125	3.475263	Stalled	chr10:80003670-80026305	20.636
Pigr	223	0	3.716845	182	3.033333	0.207146	0	Stalled	chr1:132721260-132748824	25.565
Lrrc8a	223	0	3.716845	343	5.716667	1.8557	18.5621	Stalled	chr2:30091288-30119310	26.023
Dtl	223	0	3.716845	897	14.95	8.80254	22.32239	Stalled	chr1:193361243-193401413	38.171
Celsr1	223	0	3.716845	534	8.9	0.870853	5.61747	Stalled	chr15:85729187-85866207	135.021
Pex14	223	0	3.716845	1508	25.13333	13.7848	10.33137	Stalled	chr4:148334643-148475921	139.279
Btbnd9	223	0	3.716845	2100	35	3.1545	26.6193	Stalled	chr17:30352468-30715232	360.765
Cacna1c	223	0	3.716845	1079	17.98333	0.493247	7.170905	Stalled	chr6:118542314-119148427	604.114
AI467606	222	0	3.700177	60	1	16.4358	8.702102	Stalled	chr7:134232949-134237563	2.615
Hexim1	222	0	3.700177	114	1.9	25.6593	8.312669	Stalled	chr11:102975638-102981038	3.401
Siva1	222	0	3.700177	65	1.083333	32.2994	10.17378	Stalled	chr12:113881038-113887363	4.326
Cnpy3	222	0	3.700177	1175	19.58333	59.7587	6.393099	Stalled	chr17:46872661-46891161	16.501
Pdia4	222	0	3.700177	814	13.56667	151.785	10.01656	Stalled	chr6:47746139-47765511	17.373

Dclre1a	222	0	3.700177	88	1.466667	0.720285	18.05821	Stalled	chr19:56603650-56624516	18.867
Wipi2	222	0	3.700177	385	6.416667	7.41129	27.73265	Stalled	chr5:143103537-143145324	39.788
Acsf3	222	0	3.700177	539	8.983333	7.30423	3.849925	Stalled	chr8:125297404-125341781	42.378
Ints7	222	0	3.700177	1114	18.56667	18.7286	19.66783	Stalled	chr1:193397612-193445570	45.959
Osbpl5	222	0	3.700177	599	9.983333	5.61324	0.480984	Stalled	chr7:150874666-150929868	53.203
Ttll5	222	0	3.700177	1079	17.98333	3.26773	52.02083	Stalled	chr12:87163659-87394850	229.192
Pold4	221	0	3.68351	67	1.116667	86.1702	3.411834	Unclassified	chr19:4229898-4233633	1.736
Gpr108	221	0	3.68351	70	1.166667	16.5109	19.94655	Stalled	chr17:57374337-57389064	12.728
Ehbp111	221	0	3.68351	673	11.21667	33.1747	3.687978	Stalled	chr19:5707373-5728317	18.945
Wdr63	221	0	3.68351	260	4.333333	0.444867	1.629617	Unclassified	chr3:145703490-145773000	67.511
Plekhn3	221	0	3.68351	1600	26.66667	3.54412	13.02158	Stalled	chr1:64835694-65005398	167.705
Megf11	221	0	3.68351	590	9.833333	0.118841	1.390391	Unclassified	chr9:64231432-64548781	315.35
Nav2	221	0	3.68351	1143	19.05	0.427978	0.362527	Unclassified	chr7:56212442-56865458	651.017
H2afx	220	0	3.666842	184	3.066667	55.3676	1.402039	Unclassified	chr9:44140797-44144156	1.36
Snx22	220	0	3.666842	235	3.916667	2.94079	0.149105	Stalled	chr9:65912982-65919538	4.557
Eif2b4	220	66	3.666842	85	1.416667	25.5471	19.69632	Stalled	chr5:31489930-31497512	5.583
Cuedc2	220	0	3.666842	143	2.383333	24.5287	5.568114	Stalled	chr19:46404301-46415150	8.85
Rhcg	220	0	3.666842	495	8.25	56.3129	7.36417	Stalled	chr7:109387636-109400632	10.997
Gga3	220	0	3.666842	870	14.5	9.84966	10.0543	Stalled	chr11:115445568-115467220	19.653
Golga2	220	0	3.666842	167	2.783333	12.9212	26.74756	Stalled	chr2:32141772-32163441	19.67
Aldh18a1	220	0	3.666842	616	10.26667	21.2177	6.607418	Stalled	chr19:40624747-40664953	38.207
Stt3b	220	0	3.666842	2545	42.41667	28.7964	17.78611	Stalled	chr9:115151699-115221539	67.841
Tpd52	220	0	3.666842	518	8.633333	10.2688	14.13853	Stalled	chr3:8929435-9006515	75.081
Map3k4	220	0	3.666842	360	6	4.47937	26.40962	Stalled	chr17:12420486-12513526	91.041
Calr	219	0	3.650175	508	8.466667	600.338	4.304399	Stalled	chr8:87365986-87372830	4.845
Rrm2	219	0	3.650175	532	8.866667	40.6922	5.358766	Stalled	chr12:25391118-25399010	5.893
2400001E08Rik	219	0	3.650175	158	2.633333	34.3184	10.62497	Stalled	chr7:109052350-109060415	6.066
Nek8	219	0	3.650175	139	2.316667	3.91737	9.847646	Stalled	chr11:77979607-77992168	10.562
Klhdc2	219	0	3.650175	1233	20.55	103.07	4.896238	Stalled	chr12:70395667-70411674	14.008
Kri1	219	0	3.650175	1005	16.75	19.4744	0	Stalled	chr9:21077900-21094413	14.514
Nsl1	219	0	3.650175	517	8.616667	9.16996	10.96505	Stalled	chr1:192884899-192908435	21.537
Aloxe3	219	0	3.650175	53	0.883333	0.722262	1.745193	Unclassified	chr11:68937878-68962616	22.739
Vcpip1	219	0	3.650175	146	2.433333	16.0832	39.93576	Stalled	chr1:9713277-9740463	25.187
Adnp	219	0	3.650175	915	15.25	11.7196	7.875984	Stalled	chr2:168006464-168034562	26.099
Adamts14	219	0	3.650175	294	4.9	0.717807	0.407919	Unclassified	chr10:60659859-60738186	76.328
Smpd3	219	0	3.650175	324	5.4	0.184228	10.75057	Stalled	chr8:108776447-108863888	85.442
Nrp2	219	0	3.650175	782	13.03333	4.19381	10.20794	Stalled	chr1:62747890-62865266	115.377
Uqcr	218	0	3.633507	59	0.983333	68.4196	9.37033	Stalled	chr10:79865741-79871566	3.826
4930427A07Rik	218	0	3.633507	82	1.366667	6.97799	12.05328	Stalled	chr12:114392631-114403669	9.039
Psd	218	0	3.633507	567	9.45	7.33899	0.217941	Stalled	chr19:46386576-46403646	15.071
Klhdc4	218	0	3.633507	623	10.38333	23.8191	10.48742	Stalled	chr8:124320207-124354569	33.263
Steap3	218	0	3.633507	180	3	1.36933	0.976179	Unclassified	chr1:122122992-122169659	44.668
Pisd	218	0	3.633507	611	10.18333	15.4503	22.20402	Stalled	chr5:33078961-33130275	49.315
Plxdc1	218	0	3.633507	451	7.516667	1.35083	3.757794	Stalled	chr11:97784550-97849760	63.211
Usp48	218	0	3.633507	678	11.3	10.5328	42.64066	Stalled	chr4:137148103-137214452	64.35
Gnb1l	218	0	3.633507	278	4.633333	1.64526	67.89988	Stalled	chr16:18496860-18566772	67.913
Fam69a	218	0	3.633507	1202	20.03333	6.08234	8.961803	Stalled	chr5:108337060-108418096	79.037
Atp5d	217	0	3.61684	137	2.283333	162.702	3.124404	Stalled	chr10:79603059-79608563	3.505
Abhd15	217	0	3.61684	44	0.733333	1.86551	4.186198	Stalled	chr11:77326618-77334130	5.513
Ifi271l	217	0	3.61684	402	6.7	95.8286	1.205298	Elongating	chr12:104670398-104678455	6.058
Ddx41	217	0	3.61684	184	3.066667	31.5272	4.299868	Stalled	chr13:55631770-55640019	6.25
Lgals3bp	217	0	3.61684	270	4.5	26.8353	4.234883	Stalled	chr11:118254065-118265245	9.181
Sico4a1	217	0	3.61684	718	11.96667	9.90333	0.651837	Stalled	chr2:180193682-180209557	13.876
Sic34a1	217	0	3.61684	50	0.833333	0.106192	0.219348	Unclassified	chr13:55499008-55516056	15.049
Polr3gl	217	40	3.61684	96	1.6	9.05787	20.74103	Stalled	chr3:96381796-96400081	16.286
Dhx37	217	0	3.61684	474	7.9	7.85747	6.547821	Stalled	chr5:125894773-125916418	19.646
Fam167a	217	0	3.61684	371	6.183333	3.1618	3.732881	Stalled	chr14:64053230-64084339	29.11
Spns2	217	0	3.61684	632	10.53333	0.61469	1.002325	Elongating	chr11:72265139-72305406	38.268
2900026A02Rik	217	0	3.61684	235	3.916667	0.551155	0.488697	Unclassified	chr5:113515344-113594333	76.99
Pop7	216	0	3.600173	0	0	32.342	380	Unclassified	chr5:137942666-137945657	0.992
Cstf2t	216	0	3.600173	83	1.383333	12.9569	4.68716	Stalled	chr19:31155330-31161082	3.753
Spag7	216	0	3.600173	194	3.233333	41.8727	9.876103	Stalled	chr11:70477270-70484918	5.649
Nr1d1	216	0	3.600173	81	1.35	1.04878	1.517472	Elongating	chr11:98629248-98638556	7.309
Cplx2	216	0	3.600173	86	1.433333	0.64537	0.592772	Stalled	chr13:54470712-54485278	12.567
Mss4a1	216	0	3.600173	437	7.283333	104.054	4.930019	Stalled	chr19:11325092-11342641	15.55
Arpc2	216	0	3.600173	1630	27.16667	197.359	7.146146	Stalled	chr1:74281123-74314787	31.665
Phf21b	216	0	3.600173	153	2.55	0.90963	11.27328	Stalled	chr15:84615805-84688559	70.755
Stk10	216	0	3.600173	1717	28.61667	20.1231	12.59504	Stalled	chr11:32431265-32524595	91.331
Ergic1	216	0	3.600173	1236	20.6	19.92	12.91693	Stalled	chr17:26696456-26793878	95.423
Prkg1	216	0	3.600173	1007	16.78333	0.275158	2.714982	Unclassified	chr19:30642040-31841523	1197.484
Ogg1	215	0	3.583505	88	1.466667	14.1069	27.42954	Stalled	chr6:113274969-113284180	7.212
Mpnd	215	0	3.583505	316	5.266667	35.0512	4.143268	Stalled	chr17:56146623-56156206	7.584
Telo2	215	0	3.583505	317	5.283333	9.21101	10.75337	Stalled	chr17:25236513-25254850	16.338
Fuk	215	0	3.583505	218	3.633333	3.3319	2.725474	Elongating	chr8:113406362-113428359	19.998
Sfrs16	215	0	3.583505	743	12.38333	18.6563	8.995096	Stalled	chr7:20166391-20191817	23.427
Ell	215	0	3.583505	824	13.73333	9.85297	11.1376	Stalled	chr8:73061573-73116757	53.185
Prdm15	215	81	3.583505	423	7.05	2.66754	20.8574	Stalled	chr16:98013073-98074834	59.762
Dtnb	215	85	3.583505	1072	17.86667	6.79726	8.752305	Stalled	chr12:3571040-3781397	208.358
Mars2	214	0	3.566838	29	0.483333	16.1747	18.16967	Stalled	chr1:55292020-55296902	2.883
Rps18	214	0	3.566838	501	8.35	258.558	2.598621	Stalled	chr17:34088943-34094586	3.644
Sharpin	214	0	3.566838	204	3.4	28.9994	4.07974	Stalled	chr15:76177469-76183540	4.072
Nckipso	214	0	3.566838	142	2.366667	6.1303	9.167298	Stalled	chr9:108708710-108720697	9.988
Fbxl2	214	0	3.566838	226	3.766667	0.348757	2.130825	Unclassified	chr9:113886075-113937869	49.795
H2afy	214	0	3.566838	1546	25.76667	85.6974	10.50285	Stalled	chr13:56174983-56238911	61.929
Wdr25	214	0	3.566838	619	10.31667	1.40572	43.20232	Stalled	chr12:110130481-110266660	134.18
Dennd1a	214	0	3.566838	1717	28.61667	3.83661	21.88908	Stalled	chr2:37654509-38144904	488.396

Klf2	213	0	3.55017	549	9.15	50.777	1.829675	Elongating	chr8:74840960-74845553	2.594
Tm7sf2	213	0	3.55017	123	2.05	26.2564	4.379073	Stalled	chr19:6062820-6069850	5.031
Snx17	213	67	3.55017	397	6.616667	36.4481	4.247676	Stalled	chr5:31493676-31501273	5.598
Nfkb2	213	0	3.55017	427	7.116667	68.5273	4.873102	Stalled	chr19:46378107-46386580	6.474
Denn4b	213	0	3.55017	657	10.95	27.1756	7.545077	Stalled	chr3:90068455-90084587	14.133
Pdk2	213	0	3.55017	23	0.383333	2.10725	5.324029	Unclassified	chr11:94887572-94904685	15.114
Sorbs3	213	0	3.55017	79	1.316667	0.338661	3.234951	Unclassified	chr14:70580274-70609444	27.171
Palm	213	0	3.55017	221	3.683333	12.3689	3.193275	Stalled	chr10:79254316-79283641	27.326
Dnajc16	213	0	3.55017	463	7.166667	5.19402	13.07319	Stalled	chr4:141317912-141348559	28.648
Atp6v0a2	213	0	3.55017	329	5.483333	13.1831	41.8967	Stalled	chr5:125077647-125202517	122.871
Adk	213	0	3.55017	1284	21.4	6.98029	75.74096	Stalled	chr14:21869854-22267768	395.915
Rab3a	212	0	3.533503	83	1.383333	3.75238	2.443432	Stalled	chr8:73276583-73282584	4.002
Sigirr	212	0	3.533503	216	3.6	7.85653	1.231472	Elongating	chr7:148277073-148288445	9.373
Ptpn18	212	0	3.533503	480	8	39.2155	1.454106	Elongating	chr1:34514590-34530624	14.035
Bat2l	212	0	3.533503	2412	40.2	16.5688	5.053608	Stalled	chr2:32004667-32090056	83.39
Zc3h3	212	0	3.533503	830	13.83333	2.86555	15.66114	Stalled	chr15:75584876-75674338	87.463
Wnk1	212	0	3.533503	1762	29.36667	36.1135	21.39546	Stalled	chr6:119873988-119990673	114.686
Lrrc8d	212	0	3.533503	1572	26.2	4.39451	12.12775	Stalled	chr5:106126987-106244234	115.248
Ppp1r14b	211	0	3.516835	193	3.216667	66.04	1.052512	Elongating	chr19:7047537-7051814	2.278
Chmp2a	211	0	3.516835	187	3.116667	54.8789	5.841969	Stalled	chr7:13617354-13622126	2.773
Maf1	211	0	3.516835	40	0.666667	32.1954	12.19303	Stalled	chr15:76179723-76184808	3.086
Ifrd1	211	0	3.516835	201	3.35	28.4522	6.251809	Stalled	chr9:107488048-107495369	5.322
Pdlim2	211	0	3.516835	292	4.866667	15.786	0.204562	Stalled	chr14:70564024-70579479	13.456
Pttg1ip	211	0	3.516835	152	2.533333	9.23358	28.89834	Stalled	chr10:77042511-77061477	16.967
Adam18	211	0	3.516835	129	2.15	0.043144	0.713281	Unclassified	chr8:25712718-25787227	72.51
Refp2	210	93	3.500168	1	0.016667	22.3139	79.57614	Unclassified	chr1:173431608-173434881	1.274
Tmem55b	210	0	3.500168	423	7.05	22.6447	3.295676	Stalled	chr14:51545744-51552524	4.781
Gimap7	210	38	3.500168	110	1.833333	37.5748	4.972639	Stalled	chr6:48666619-48674635	6.017
Crel2d	210	0	3.500168	153	2.55	96.166	12.86835	Stalled	chr15:88648075-88657111	7.037
Polr2f	210	0	3.500168	268	4.466667	95.9821	6.202428	Stalled	chr15:78969796-78982197	10.402
Ncl	210	0	3.500168	1886	31.43333	115.032	6.421593	Stalled	chr1:88241293-88258030	14.738
Katnal1	210	0	3.500168	187	3.116667	2.49705	19.44875	Stalled	chr5:149687650-149742199	52.55
Vac11	210	0	3.500168	1650	27.5	17.1569	10.93522	Stalled	chr8:113140537-113244299	101.763
Ctnnb1	210	0	3.500168	1299	21.65	22.0552	13.42166	Stalled	chr2:157561136-157717639	154.504
Srgap2	210	65	3.500168	1479	24.65	5.33942	54.80736	Stalled	chr1:133181827-133425938	242.112
Mxd3	209	0	3.4835	286	4.766667	11.1607	3.113964	Stalled	chr13:55426528-55433091	4.564
B9d2	209	0	3.4835	238	3.966667	18.8999	3.196145	Stalled	chr7:26464176-26471577	5.402
Scarf2	209	0	3.4835	58	0.966667	1.43978	0.88288	Unclassified	chr16:17795374-17808380	11.007
Stat6	209	0	3.4835	343	5.716667	23.8955	13.98013	Stalled	chr10:127078041-127098043	18.003
Aars	209	0	3.4835	1043	17.38333	71.4728	4.278541	Stalled	chr8:113555866-113580770	22.905
Fam163b	209	0	3.4835	106	1.766667	0.174901	0.870225	Unclassified	chr2:26967522-26999994	30.473
Efcab4b	209	0	3.4835	203	3.383333	0.890348	1.404741	Unclassified	chr6:127525992-127579956	51.965
Gpatch2	209	0	3.4835	2083	34.71667	7.50913	8.394667	Stalled	chr1:189037389-189175306	135.918
Hspa2	208	0	3.466833	17	0.283333	7.98853	20.68936	Stalled	chr12:77503356-77507923	2.568
Emp3	208	0	3.466833	82	1.366667	70.6451	2.621409	Stalled	chr7:53173392-53178796	3.405
Irgq	208	0	3.466833	109	1.816667	6.8929	7.495494	Stalled	chr7:25313666-25323618	7.953
Rilp2	208	0	3.466833	906	15.1	157.476	4.920724	Stalled	chr5:124913273-124930244	14.972
Dusp13	208	0	3.466833	23	0.383333	0.044093	1.528742	Unclassified	chr14:22552617-22569844	15.228
Gna13	208	0	3.466833	1035	17.25	13.029	13.38311	Stalled	chr11:109222107-109262683	38.577
Bfsp2	208	0	3.466833	1051	17.51667	11.0349	0.295309	Stalled	chr9:103327253-103384658	55.406
Reck	208	0	3.466833	142	2.366667	0.477034	4.545849	Unclassified	chr4:43886401-43957678	69.278
Itgb5	208	0	3.466833	448	7.466667	3.25035	5.026094	Stalled	chr16:33827750-33949422	119.673
Grand1b	208	0	3.466833	1521	25.35	8.17024	11.96641	Stalled	chr9:40105491-40265349	157.859
Amigo3	207	0	3.450165	204	3.4	3.58725	1.705173	Elongating	chr9:107953489-107958032	2.544
Chpf2	207	0	3.450165	339	5.65	21.5228	3.694046	Stalled	chr5:24090567-24098304	5.738
Rdm1	207	49	3.450165	45	0.75	13.0942	131.5029	Stalled	chr11:101487262-101497395	8.134
Rsad1	207	0	3.450165	86	1.433333	2.53752	12.91793	Stalled	chr11:94401111-94412521	9.411
Xaf1	207	0	3.450165	228	3.8	1.94906	4.412562	Stalled	chr11:72113130-72127235	12.106
Cstad	207	0	3.450165	126	2.1	0.250993	8.267402	Stalled	chr2:30448563-30464465	13.903
Rab20	207	0	3.450165	805	13.41667	4.88058	4.145328	Stalled	chr8:11453976-11480499	24.524
Igf2r	207	0	3.450165	927	15.45	8.37891	7.239372	Stalled	chr17:12875271-12964572	87.302
Aak1	207	0	3.450165	802	13.36667	2.184	16.47548	Stalled	chr6:86797510-86953221	153.712
Ank1	207	36	3.450165	282	4.7	0.187762	0.764826	Unclassified	chr8:24083353-24260968	175.616
Gas5	206	10	3.44	1404	264.8671	61.8327	2.772061	Elongating	chr1:162963297-162968668	3.371
Osm	206	0	3.433498	131	2.183333	1.69537	4.780343	Stalled	chr11:4134787-4141027	4.241
Mst1	206	0	3.433498	171	2.85	0.594283	0.144055	Stalled	chr9:107980766-107987358	4.593
Tekt4	206	0	3.433498	17	0.283333	0.794281	0.190707	Unclassified	chr17:25606534-25613539	5.006
Cdc34	206	0	3.433498	331	5.516667	77.3742	3.978778	Stalled	chr10:79142939-79151143	6.205
Sh2b1	206	0	3.433498	212	3.533333	30.9197	8.599294	Stalled	chr7:133610507-133620644	8.138
Cpsf3	206	0	3.433498	501	8.35	21.7656	11.39293	Stalled	chr12:21290157-21320917	28.761
Gm628	206	0	3.433498	79	1.316667	0.051448	0.791467	Unclassified	chr15:73617365-73672101	52.737
Denn23	206	0	3.433498	550	9.166667	6.78339	9.255482	Stalled	chr15:73340989-73402672	59.684
Ccdc33	206	0	3.433498	127	2.116667	0.049958	0.363552	Unclassified	chr9:57876488-57952032	73.545
Rbm19	206	0	3.433498	1597	26.61667	7.65528	6.115106	Stalled	chr5:120564521-120648980	82.46
Traf3	206	0	3.433498	2301	38.35	9.56636	6.513997	Stalled	chr12:112402758-112505359	100.602
Dgkg	206	0	3.433498	419	6.983333	0.507531	8.101784	Stalled	chr16:22466641-22659304	190.664
Aup1	205	0	3.41683	145	2.416667	92.7885	6.27129	Stalled	chr6:83002646-83007676	3.031
38960	205	0	3.41683	65	1.083333	95.798	4.153665	Stalled	chr7:134357955-134363959	4.005
Stk11ip	205	0	3.41683	232	3.866667	6.29165	11.69962	Stalled	chr1:75516103-75533910	15.808
Cct7	205	0	3.41683	642	10.7	89.8554	9.516802	Stalled	chr6:85399498-85418471	16.974
A730011L01Rik	205	0	3.41683	271	4.516667	3.60576	22.75839	Stalled	chr11:119350933-119372779	19.847
Zbtb17	205	0	3.41683	789	13.15	12.3054	5.516644	Stalled	chr4:140998587-141023852	23.266
Whxc2	205	0	3.41683	567	9.45	15.6183	26.27175	Stalled	chr5:34240828-34280907	38.08
Pnk	205	0	3.41683	2762	46.03333	31.3405	4.31115	Stalled	chr14:8928726-8997625	66.9
Bst2	204	0	3.400163	56	0.933333	66.4789	4.976898	Stalled	chr8:74058160-74063336	3.177
Ado	204	0	3.400163	149	2.483333	9.10465	5.94167	Stalled	chr10:67007260-67013703	4.444

Mbd3	204	0	3.400163	444	7.4	71.4104	8.105881	Stalled	chr10:79855285-79864224	6.94
Ing1	204	0	3.400163	691	11.51667	22.088	4.755827	Stalled	chr8:11554065-11563250	7.186
Zppb2	204	74	3.400163	22	0.366667	8.18791	96.10137	Stalled	chr11:98410410-98419977	7.568
Sh2d2a	204	0	3.400163	270	4.5	12.5105	1.305344	Elongating	chr3:87648932-87659644	8.713
Hnrrpa2b1	204	43	3.400163	737	12.28333	305.009	8.069867	Stalled	chr6:51410433-51421893	9.461
Akt1	204	0	3.400163	844	14.06667	65.4285	3.965955	Stalled	chr12:113892031-113914487	20.457
Rhd	204	0	3.400163	85	1.416667	0.499542	1.059765	Unclassified	chr4:134418450-134452086	31.637
Hps3	204	0	3.400163	346	5.766667	7.1913	30.74343	Stalled	chr3:19895945-19937310	39.366
Cacna1b	204	0	3.400163	603	10.05	1.62631	9.854506	Stalled	chr2:24461894-24620672	156.779
Rhob	203	0	3.383495	66	1.1	22.054	7.653537	Stalled	chr12:8504564-8508791	2.228
Manf	203	0	3.383495	432	7.2	86.7019	3.876873	Stalled	chr9:106789745-106796269	4.525
Atp1b2	203	0	3.383495	12	0.2	1.19532	13.32373	Stalled	chr11:69413251-69421462	6.212
F12	203	0	3.383495	31	0.516667	0.516313	1.009063	Unclassified	chr13:55519326-55530163	8.838
Abca3	203	0	3.383495	157	2.616667	4.64702	4.505757	Stalled	chr2:25282193-25304059	19.867
1500002020Rik	203	0	3.383495	530	8.833333	14.1973	13.47953	Stalled	chr7:25182646-25207796	23.151
Usp1	203	0	3.383495	557	9.283333	8.25526	25.50432	Stalled	chr5:149994135-150027010	30.876
Stk40	203	0	3.383495	489	8.15	16.4959	10.92345	Stalled	chr4:125779200-125818272	37.073
Lym	203	0	3.383495	1643	27.38333	12.7191	22.17188	Stalled	chr4:3603267-3718759	113.493
Lymr4	203	0	3.383495	457	7.616667	2.14851	26.83857	Stalled	chr13:36070665-36211226	138.562
Sh3bgr13	202	0	3.366828	38	0.633333	345.982	3.831365	Unclassified	chr4:133683320-133686668	1.349
Cd79a	202	0	3.366828	356	5.933333	320.291	3.701452	Stalled	chr7:25680529-25687216	4.688
Tmem115	202	0	3.366828	109	1.816667	23.5844	3.920107	Stalled	chr9:107434275-107440987	4.713
Phf5a	202	48	3.366828	297	4.95	28.3609	5.045587	Stalled	chr15:81694945-81704322	7.378
Sh3glb2	202	0	3.366828	278	4.633333	17.0721	1.934666	Elongating	chr2:30200328-30216751	14.424
Suds3	202	0	3.366828	442	7.366667	29.0555	5.762172	Stalled	chr5:117541688-117568002	24.315
Tbc1d10a	202	0	3.366828	251	4.183333	10.8917	19.16606	Stalled	chr11:4084835-4115508	28.674
4930519G04Rik	202	0	3.366828	81	1.35	0.015676	0	Unclassified	chr5:115301722-115333888	30.167
Wipf2	202	0	3.366828	530	8.833333	2.62309	8.7565	Stalled	chr11:98722911-98766892	41.982
Gne	202	0	3.366828	874	14.56667	3.96153	0.638321	Stalled	chr4:44046947-44099049	50.103
Trmt12	201	0	3.350161	78	1.3	6.96047	5.523726	Stalled	chr15:58702203-58708336	4.134
Chrne	201	0	3.350161	163	2.716667	3.13315	0.039841	Stalled	chr11:70428384-70434696	4.313
Calm1	201	0	3.350161	637	10.61667	87.8125	8.216404	Stalled	chr12:101435750-101448016	10.267
Slc38a8	201	0	3.350161	53	0.883333	0.141616	3.131935	Unclassified	chr8:122003502-122027598	22.097
Echdc3	201	0	3.350161	658	10.96667	0.954859	1.45012	Elongating	chr2:6109510-6136040	24.531
Inpp1	201	0	3.350161	242	4.033333	11.008	6.278976	Stalled	chr1:52846263-52876532	28.27
Nfe212	201	0	3.350161	722	12.03333	5.83342	12.89741	Stalled	chr2:75513575-75544698	29.124
Ccdc63	201	0	3.350161	159	2.65	0.129118	0.925748	Unclassified	chr5:122558064-122590071	30.008
Cytip	201	306	3.350161	841	14.01667	8.82679	5.47382	Stalled	chr2:57981549-58014533	30.985
Cacna1h	201	0	3.350161	320	5.333333	3.39922	3.090837	Stalled	chr17:25511236-25572728	59.493
Rps11	200	0	3.333493	194	3.233333	378.826	4.299975	Stalled	chr7:52377757-52381759	2.003
Tnfrsf13c	200	0	3.333493	190	3.166667	161.279	4.193117	Stalled	chr15:82052173-82056766	2.594
Tomt	200	0	3.333493	185	3.083333	2.46963	6.644262	Stalled	chr7:109048321-109056873	6.553
Midn	200	0	3.333493	972	16.2	26.9445	0.888393	Stalled	chr10:79609034-79621112	10.079
Ccdc130	200	0	3.333493	149	2.483333	3.10774	16.35273	Stalled	chr8:86781693-86796259	12.567
Atp8b2	200	0	3.333493	617	10.28333	16.1561	5.541102	Stalled	chr3:89743402-89769430	24.029
Dagla	200	0	3.333493	144	2.4	0.090993	2.025023	Unclassified	chr19:10319754-10381367	59.614
Ssh2	200	0	3.333493	1554	25.9	4.52958	61.38732	Stalled	chr11:77027926-77269050	239.125
Dis3l2	200	0	3.333493	1132	18.86667	3.81766	35.52419	Stalled	chr1:88598417-88946667	346.251
Emg1	199	0	3.316826	366	6.1	77.2809	6.173247	Stalled	chr6:124654388-124664196	7.809
Kank3	199	0	3.316826	982	16.36667	3.94029	0.045875	Stalled	chr17:33945467-33959859	12.393
Fchsd2	199	55	3.316826	3936	65.6	18.1387	11.51289	Stalled	chr7:108255288-108432919	175.632
Tlcd1	198	0	3.300158	178	2.966667	6.21254	2.899982	Stalled	chr11:77990267-77994274	2.008
Neur1	198	0	3.300158	55	0.916667	17.7234	6.438208	Stalled	chr2:164656229-164661096	2.868
Ppm1g	198	0	3.300158	421	7.016667	96.2145	19.92889	Stalled	chr5:31505040-31524918	17.879
Agxt12	198	0	3.300158	2610	43.5	5.19011	2.439616	Elongating	chr11:51396258-51416771	18.514
Rasd1	197	0	3.283491	85	1.416667	17.0037	3.638134	Unclassified	chr11:59776684-59780444	1.761
Tmem176a	197	0	3.283491	173	2.883333	54.4704	2.786568	Stalled	chr6:48789481-48795363	3.883
Pddc1	197	0	3.283491	58	0.966667	9.16848	13.66446	Stalled	chr7:148594082-148602024	5.943
Mrps18b	197	47	3.283491	188	3.133333	11.7212	9.688527	Stalled	chr17:36047329-36055314	5.986
H2-DMb1	197	0	3.283491	593	9.883333	108.286	3.176082	Stalled	chr17:34288135-34297174	7.04
2310044G17Rik	197	0	3.283491	223	3.716667	4.91186	24.08894	Stalled	chr12:88286360-88304755	16.396
Nop14	197	0	3.283491	598	9.966667	18.0072	11.26313	Stalled	chr5:34981184-35004797	21.614
Csf1r	197	0	3.283491	142	2.366667	0.277733	0.590002	Unclassified	chr18:61263225-61290793	25.569
Elmo2	197	0	3.283491	482	8.033333	5.60551	6.776976	Stalled	chr2:165113530-165153979	38.45
Sic7a7	197	0	3.283491	460	7.666667	2.45757	1.191386	Stalled	chr14:54989127-55038536	47.41
Pitpnm2	197	0	3.283491	1545	25.75	7.38923	1.060552	Elongating	chr5:124568698-124668427	97.73
Mtor	197	0	3.283491	1107	18.45	6.3669	18.68304	Stalled	chr4:147820690-147931793	109.104
Ly6a	196	90	3.266823	232	3.866667	322.515	0.774188	Elongating	chr15:74825306-74830318	3.013
4933403G14Rik	196	0	3.266823	56	0.933333	1.02558	3.831184	Stalled	chr8:128191717-128197265	3.549
Eif4a2	196	55	3.266823	777	12.95	39.228	3.757211	Stalled	chr16:23105551-23114205	6.655
Dhx58	196	0	3.266823	306	5.1	24.7721	2.828451	Stalled	chr11:100556197-100567585	9.389
Ndufa8	196	0	3.266823	106	1.766667	78.7204	13.28213	Stalled	chr2:35891853-35906812	12.96
Esyt1	196	0	3.266823	295	4.916667	32.8579	12.31698	Stalled	chr10:127947305-127964915	15.611
Thumpd3	196	0	3.266823	510	8.5	14.9538	23.04111	Stalled	chr6:112994320-113018267	21.948
Scamp2	196	0	3.266823	747	12.45	19.9119	7.773725	Stalled	chr9:57406750-57436605	27.856
Rfx1	196	0	3.266823	704	11.73333	8.54166	8.152936	Stalled	chr8:86588734-86620891	30.158
Lrch1	196	0	3.266823	1822	30.36667	5.27887	12.8824	Stalled	chr14:75154479-75349684	193.206
Cdk2ap2	195	0	3.250156	14	0.233333	67.0395	13.66239	Unclassified	chr19:4095350-4099017	1.668
Fam173a	195	0	3.250156	14	0.233333	33.6475	14.24899	Unclassified	chr17:25927450-25931229	1.78
B3gnt9	195	0	3.250156	29	0.483333	4.25093	1.836965	Elongating	chr8:107776537-107781051	2.515
Sirt6	195	0	3.250156	86	1.433333	16.5021	14.18136	Stalled	chr10:81084530-81092353	5.824
Sdhb	195	0	3.250156	544	9.066667	75.4762	5.702114	Stalled	chr4:140515185-140535107	17.923
Spes2	195	0	3.250156	599	9.983333	34.3848	7.774532	Stalled	chr7:106986078-107009393	21.316
Rel	195	78	3.250156	742	12.36667	12.0266	17.16046	Stalled	chr11:23641728-23672970	29.243
Cd9	195	0	3.250156	256	4.266667	7.85073	4.62757	Stalled	chr6:125410283-125446773	34.491
Abca3	195	0	3.250156	656	10.93333	7.43833	18.67412	Stalled	chr17:24486990-24547146	58.157

Mark2	195	0	3.250156	1221	20.35	19.8849	6.308679	Stalled	chr19:7349885-7418334	66.45
O610011F06Rik	194	0	3.233488	11	0.183333	30.414	8.665238	Unclassified	chr17:26010444-26014108	1.665
Gadd45b	194	0	3.233488	161	2.683333	37.361	2.352219	Stalled	chr10:80390835-80394949	2.115
Ptger4	194	0	3.233488	526	8.766667	8.94016	4.0906	Stalled	chr15:5183405-5195682	10.278
Grm6	194	0	3.233488	188	3.133333	18.3323	8.391186	Stalled	chr11:50662186-50679710	15.525
Prpf40b	194	0	3.233488	513	8.55	1.94672	2.354948	Elongating	chr15:99123839-99147438	21.6
Pppde2	194	0	3.233488	292	4.866667	12.8542	33.14281	Stalled	chr15:81822952-81848570	23.619
Got2	194	0	3.233488	571	9.516667	65.5249	6.528465	Stalled	chr8:98388036-98414265	24.23
Nfic	194	0	3.233488	278	4.633333	2.00889	1.752403	Elongating	chr10:80858935-80891918	30.984
Raf1	194	0	3.233488	861	14.35	20.7212	24.92491	Stalled	chr6:115568590-115628653	58.064
Slc6a6	194	0	3.233488	1597	26.61667	13.9913	12.08914	Stalled	chr6:91632060-91709055	74.996
Xpo7	194	0	3.233488	791	13.18333	4.09859	16.66346	Stalled	chr14:71054052-71168435	112.384
Gm962	193	0	3.216821	71	1.183333	6.18756	6.520133	Stalled	chr19:5566073-5571261	3.189
Clec11a	193	0	3.216821	405	6.75	9.05179	0.037665	Stalled	chr7:51559139-51564329	3.191
Cenpm	193	0	3.216821	290	4.833333	32.0426	8.211842	Stalled	chr15:82064205-82077177	10.973
P4hb	193	0	3.216821	274	4.566667	130.197	16.37364	Stalled	chr11:120421617-120436250	12.634
Icam1	193	0	3.216821	674	11.23333	29.913	8.388669	Stalled	chr9:20818403-20833240	12.838
Usp5	193	53	3.216821	307	5.116667	36.05	14.92083	Stalled	chr6:124765036-124781465	14.43
Cd274	193	168	3.216821	721	12.01667	4.48242	4.431952	Stalled	chr19:29439927-29462582	20.656
Tmem120b	193	0	3.216821	234	3.9	3.6378	37.80246	Stalled	chr5:123524283-123567454	41.172
Lrmp	193	59	3.216821	3192	53.2	46.7822	4.858432	Stalled	chr6:145068258-145123448	53.191
Cd52	192	0	3.200153	122	2.033333	547.22	1.717881	Unclassified	chr4:133649452-133652988	1.537
Mrp112	192	0	3.200153	129	2.15	72.6215	10.16637	Stalled	chr11:120343982-120350068	4.087
Irf9	192	0	3.200153	378	6.3	21.2235	5.888489	Stalled	chr14:56220821-56228866	6.046
Cdkn1a	192	0	3.200153	226	3.766667	11.3384	3.284542	Stalled	chr17:29228716-29237667	6.952
Cabp7	192	0	3.200153	29	0.483333	0.128347	0.193526	Unclassified	chr11:4638823-4648781	7.959
Pkp3	192	0	3.200153	161	2.683333	8.80389	0.114114	Stalled	chr7:148263667-148276408	10.742
Mrp139	192	0	3.200153	396	6.6	15.9937	7.682648	Stalled	chr16:84718525-84737426	16.902
3010026O09Rik	192	0	3.200153	487	8.116667	7.07611	14.23821	Stalled	chr11:49986352-50013616	25.265
Cep78	192	0	3.200153	102	1.7	4.06694	41.82274	Stalled	chr19:16030262-16061479	29.218
Sdf211	191	92	3.183486	108	1.8	181.365	5.924126	Stalled	chr16:17130230-17134476	2.247
Fbx15	191	0	3.183486	71	1.183333	14.4242	3.550758	Stalled	chr19:46400673-46404936	2.264
Rps5	191	0	3.183486	512	8.533333	1112.34	3.727267	Stalled	chr7:13505659-13512034	4.376
Tubb5	191	0	3.183486	871	14.51667	281.226	0.932432	Elongating	chr17:35970864-35977246	4.383
Irf3	191	0	3.183486	346	5.766667	28.8082	2.787829	Stalled	chr7:52251029-52258218	5.19
Ccdc142	191	0	3.183486	255	4.25	48.8606	2.399267	Elongating	chr6:83049509-83059115	7.607
Pcyox11	191	0	3.183486	239	3.983333	7.12846	10.24116	Stalled	chr18:61856490-61869289	10.8
Mthfsd	191	0	3.183486	227	3.783333	9.63475	10.41205	Stalled	chr8:123621456-123634279	10.824
Fam63a	191	0	3.183486	133	2.216667	7.61823	9.8446	Stalled	chr3:95084865-95100083	13.219
Cndp2	191	0	3.183486	260	4.333333	16.0092	11.02425	Stalled	chr18:84836860-84857025	18.166
Arhgef2	191	0	3.183486	550	9.166667	17.5648	9.461062	Stalled	chr3:88423027-88451974	26.948
Sik3	191	0	3.183486	2451	40.85	8.71772	6.956209	Stalled	chr9:45818902-46032277	211.376
Pgam2	190	0	3.166818	91	1.516667	2.31956	0.340133	Stalled	chr11:5701639-5705799	2.161
Spsb3	190	0	3.166818	393	6.55	16.1417	0.453104	Stalled	chr17:25022425-25029092	4.668
Rpl3	190	0	3.166818	1705	28.41667	115.277	1.908039	Elongating	chr15:79908210-79915836	5.627
Rsemb3	190	0	3.166818	354	5.9	61.2746	5.269944	Stalled	chr11:97562747-97574814	10.068
Rsp9	190	0	3.166818	196	3.266667	4.20333	2.056054	Elongating	chr17:46266225-46283147	14.923
Entpd7	190	0	3.166818	420	7	1.67091	13.04768	Stalled	chr19:43762178-43808343	44.166
Sltm	190	0	3.166818	526	8.766667	17.6843	33.65609	Stalled	chr9:70388584-70440039	49.456
Foxp4	190	0	3.166818	915	15.25	22.7684	14.53961	Stalled	chr17:48004081-48063581	57.501
Oxct1	190	0	3.166818	873	14.55	27.4344	25.56014	Stalled	chr15:39744247-4105344	128.918
Setbp1	190	66	3.166818	2342	39.03333	1.98793	11.13813	Stalled	chr18:78947118-79308130	359.013
Poir2i	189	0	3.150151	7	0.116667	27.0206	14.1244	Unclassified	chr7:31015092-31018406	1.315
Tssc4	189	0	3.150151	63	1.05	55.1039	4.503351	Unclassified	chr7:150253272-150256992	1.721
Gngt2	189	0	3.150151	41	0.683333	0	11.4497	Stalled	chr11:95701608-95707045	3.438
Rpl22	189	0	3.150151	667	11.11667	129.4	3.404364	Stalled	chr4:151697986-151708180	8.195
Brms1	189	0	3.150151	157	2.616667	22.2777	7.034678	Stalled	chr19:5039403-5049917	8.515
Tmem109	189	0	3.150151	250	4.166667	15.2528	7.172153	Stalled	chr19:10945151-10958233	11.083
Btnl2	189	0	3.150151	162	2.7	2.02493	5.759188	Stalled	chr17:34489766-34506437	14.672
Trim8	189	0	3.150151	545	9.083333	17.4335	3.360762	Stalled	chr19:46574137-46590945	14.809
Atp13a1	189	0	3.150151	975	16.25	24.7649	6.922576	Stalled	chr8:72313061-72331645	16.585
Zmiz2	189	0	3.150151	738	12.3	44.4511	4.716105	Stalled	chr11:6287366-6306165	16.8
Arhgdib	189	0	3.150151	1160	19.33333	360.79	3.280575	Stalled	chr6:136872229-136892238	18.01
Litaf	189	38	3.150151	532	8.866667	8.37392	8.374133	Stalled	chr16:10959367-10995214	33.848
Msra	189	0	3.150151	1334	22.23333	8.48125	0.199414	Unclassified	chr14:64741461-65076740	333.28
Jtb	188	0	3.133483	49	0.816667	51.2547	25.65193	Stalled	chr3:90033518-90039762	4.245
Mybph	188	0	3.133483	44	0.733333	0.066313	0.267239	Unclassified	chr1:136088024-136097809	7.786
2310003H01Rik	188	0	3.133483	108	1.8	4.58517	13.10481	Stalled	chr11:120230875-120242060	9.186
Nfil3	188	0	3.133483	1899	31.65	70.6957	3.751945	Stalled	chr13:53062577-53078408	13.832
Best1	188	0	3.133483	338	5.633333	0.240075	0.218736	Stalled	chr19:10059661-10078123	16.463
Tkt	188	0	3.133483	1391	23.18333	105.124	8.628137	Stalled	chr14:31360334-31387908	25.575
Celsr3	188	0	3.133483	110	1.833333	0.379502	1.134573	Unclassified	chr9:108726650-108755300	26.651
Gls	188	0	3.133483	1660	27.66667	10.7627	17.10863	Stalled	chr1:52220293-52292076	69.784
Kdm2a	188	0	3.133483	1241	20.68333	13.4979	10.04496	Stalled	chr19:4316146-4399077	80.932
Grk4	188	0	3.133483	90	1.5	4.5626	176.6928	Stalled	chr5:35001027-35097952	94.926
Dyrk1a	188	0	3.133483	2555	42.58333	5.56049	9.232313	Stalled	chr16:94789812-94917126	125.315
Hist1h1b	187	64	3.116816	0	0	16.8189	907	Unclassified	chr13:21871751-21874423	0.673
4930404N11Rik	187	0	3.116816	58	0.966667	6.04068	2.836525	Unclassified	chr10:80826768-80830565	1.798
Mfsd3	187	0	3.116816	74	1.233333	8.04938	4.803049	Stalled	chr15:76529971-76534669	2.699
Rassf7	187	0	3.116816	14	0.233333	4.78149	22.78481	Stalled	chr7:148399758-148404557	2.8
Ifi30	187	0	3.116816	339	5.65	279.919	4.62697	Stalled	chr8:73286671-73292562	3.892
C130050O18Rik	187	0	3.116816	194	3.233333	0	0.515443	Stalled	chr5:139880340-139892046	9.707
Nfkbil2	187	0	3.116816	233	3.883333	9.23431	9.713188	Stalled	chr15:76456666-76472359	13.694
Akap3	187	0	3.116816	224	3.733333	7.2361	15.56152	Stalled	chr4:155263983-155281360	15.378
Hn1	187	0	3.116816	409	6.816667	90.183	14.4353	Stalled	chr11:115358666-115377684	17.019
Tgfb1	187	0	3.116816	997	16.61667	51.249	3.436089	Stalled	chr7:26470020-26490015	17.996

Gpr55	187	74	3.116816	239	3.983333	4.70295	5.139488	Stalled	chr1:87836111-87859630	21.52
BC003331	187	0	3.116816	122	2.033333	5.79327	67.02904	Stalled	chr1:152208440-152242185	31.746
Rnf43	187	0	3.116816	332	5.533333	1.721	4.073431	Stalled	chr11:87474588-87549041	72.454
Ttc7	187	0	3.116816	1698	28.3	12.9362	19.23828	Stalled	chr17:87680225-87781098	98.874
Nudt8	186	0	3.100149	12	0.2	16.0594	12.00798	Unclassified	chr19:3998579-4002102	1.524
Slc25a11	186	0	3.100149	47	0.783333	31.097	12.30649	Stalled	chr11:70457698-70462495	2.798
Maz	186	0	3.100149	423	7.05	114.65	1.592217	Elongating	chr7:134165650-134171993	4.344
Nkiras2	186	0	3.100149	364	6.066667	17.0042	1.875868	Elongating	chr11:100482268-100488916	4.649
Mamstr	186	0	3.100149	116	1.933333	0.893498	0.157541	Stalled	chr7:52893362-52901117	5.756
Polg2	186	45	3.100149	132	2.2	10.718	49.73812	Stalled	chr11:106629517-106642851	11.335
Gramd1a	186	0	3.100149	584	9.733333	23.7218	6.697479	Stalled	chr7:31915145-31938069	20.925
Deaf1	186	0	3.100149	363	6.05	6.61741	12.1945	Stalled	chr7:148483076-148515624	30.549
Ciptm1	186	0	3.100149	703	11.71667	19.0252	8.207296	Stalled	chr7:20216928-20252379	33.452
Rpn2	186	0	3.100149	1125	18.75	81.6329	13.45748	Stalled	chr2:157102833-157152054	47.222
1190002A17Rik	186	0	3.100149	275	4.583333	0.522449	3.183584	Unclassified	chr2:28553680-28668685	113.006
Rpl35	185	0	3.083481	387	6.45	343.089	2.568037	Stalled	chr2:38857100-38862651	3.552
Pcvt2	185	0	3.083481	286	4.766667	59.1271	9.505456	Stalled	chr11:120471400-120481204	7.805
Ttc9c	185	0	3.083481	93	1.55	11.0594	27.87381	Stalled	chr19:8883564-8895784	10.221
A4galt	185	0	3.083481	432	7.2	3.7019	6.750935	Stalled	chr15:83057152-83084204	25.053
Ndst1	185	0	3.083481	402	6.7	6.62398	0.98652	Stalled	chr18:60845629-60875043	27.415
Eef1b2	184	0	3.066814	78	1.3	518.951	6.585952	Stalled	chr1:63221704-63226230	2.527
Zfp263	184	0	3.066814	154	2.566667	16.6955	14.07684	Stalled	chr16:3742098-3750788	6.691
Ahsa1	184	0	3.066814	158	2.633333	103.575	12.09366	Stalled	chr12:88605677-88614902	7.226
1110014N23Rik	184	33	3.066814	277	4.616667	0	3.949034	Stalled	chr19:6067841-6079187	9.347
Rfc4	184	0	3.066814	721	12.01667	17.7076	7.090762	Stalled	chr16:23114020-23129803	13.784
Ii10ra	184	0	3.066814	726	12.1	16.9601	3.942997	Stalled	chr9:45061921-45079229	15.309
Unc13d	184	0	3.066814	438	7.3	17.1702	7.517755	Stalled	chr11:115923409-115941275	15.867
Tmem63b	184	0	3.066814	320	5.333333	9.18013	11.68528	Stalled	chr17:45797125-45825167	26.043
Acbd5	184	0	3.066814	360	6	6.57328	25.82523	Stalled	chr2:22921720-22970032	46.313
Zfp516	184	0	3.066814	281	4.683333	1.8085	1.550233	Stalled	chr18:83123010-83172107	47.098
Polr3b	184	0	3.066814	1151	19.18333	6.35865	23.9774	Stalled	chr10:84083181-84189923	104.743
Myo10	184	0	3.066814	426	7.1	1.22313	16.6633	Stalled	chr15:25550304-25743426	191.123
Mlx	183	0	3.050146	127	2.116667	10.4954	5.775936	Stalled	chr11:100946603-100953520	4.918
Ldha	183	0	3.050146	589	9.816667	429.566	6.907772	Stalled	chr7:54099173-54110996	9.824
Chrna3	183	0	3.050146	24	0.4	0.073869	1.116071	Unclassified	chr9:54859149-54876366	15.218
AA960436	183	0	3.050146	114	1.9	9.3634	24.52645	Stalled	chr8:97854183-97871413	15.231
Top1mt	183	0	3.050146	162	2.7	4.72637	15.10704	Stalled	chr15:75487462-75511220	21.759
Slc36a3	183	0	3.050146	307	5.116667	0.218709	0.155519	Stalled	chr11:54938324-54967208	26.885
Phrf1	183	0	3.050146	862	14.36667	18.3107	7.771941	Stalled	chr7:148412686-148448650	33.965
Golm1	183	0	3.050146	193	3.216667	1.54425	4.956871	Stalled	chr13:59736356-59779145	40.79
Axin1	183	0	3.050146	549	9.15	17.0509	19.01425	Stalled	chr17:26273630-26332756	57.127
Lamc1	183	0	3.050146	1224	20.4	9.69644	13.4237	Stalled	chr1:155066051-155181916	113.866
C230081A13Rik	183	0	3.050146	824	13.73333	1.77829	41.942	Stalled	chr9:56048935-56267857	216.923
6230427J02Rik	182	0	3.033479	128	2.133333	22.2067	1.408821	Unclassified	chr9:107886556-107890247	1.692
Ftsj3	182	0	3.033479	310	5.166667	35.9733	5.666096	Stalled	chr11:106110457-106119116	6.66
Trib1	182	157	3.033479	343	5.716667	5.51257	3.230001	Stalled	chr15:59478208-59488654	8.447
Trip10	182	0	3.033479	77	1.283333	7.15674	8.507636	Stalled	chr17:57386873-57402846	13.974
Eef1d	182	0	3.033479	528	8.8	96.1004	7.376879	Stalled	chr15:75725229-75741770	14.542
Rnmt	182	0	3.033479	305	5.083333	5.0452	19.52891	Stalled	chr18:68458008-68484506	24.499
Trpv2	182	0	3.033479	818	13.63333	26.6067	1.708095	Elongating	chr11:62385987-62413807	25.821
Ddx6	182	0	3.033479	1650	27.5	22.9137	12.75901	Stalled	chr9:44410974-44448814	35.841
4933403F05Rik	182	0	3.033479	184	3.066667	1.69496	48.42214	Stalled	chr18:68419838-68461987	40.15
Nsmf	182	0	3.033479	587	9.783333	9.09087	9.12608	Stalled	chr4:6323353-6383418	58.066
Slc10a7	182	0	3.033479	1822	30.36667	6.32882	22.52386	Stalled	chr8:81031233-81257904	224.672
2310033P09Rik	181	0	3.016811	281	4.683333	25.8986	2.186366	Stalled	chr11:59019862-59024236	2.375
Rpl18	181	0	3.016811	314	5.233333	293.404	3.182274	Stalled	chr7:52971440-52976205	2.766
Car15	181	0	3.016811	20	0.333333	0.695909	2.617744	Stalled	chr16:17835368-17840279	2.912
Ubc	181	79	3.016811	230	3.833333	0	6.237627	Stalled	chr5:125866334-125872387	4.054
Angptl6	181	0	3.016811	327	5.45	3.6824	0.162496	Stalled	chr9:20678252-20686154	5.903
Rasgrp2	181	0	3.016811	366	6.1	21.8416	2.621874	Elongating	chr19:6398582-6415216	14.635
Sypl	181	0	3.016811	771	12.85	31.4076	9.507996	Stalled	chr12:33636809-33664367	25.559
Lats2	181	0	3.016811	350	5.833333	3.86802	19.1505	Stalled	chr14:58308498-58366960	56.463
Far1	181	0	3.016811	518	8.633333	13.9437	34.40962	Stalled	chr7:120655375-120713972	56.598
Eaf2	181	0	3.016811	615	10.25	19.629	23.61057	Stalled	chr16:36792969-36876912	81.944
Prdm2	181	0	3.016811	1787	29.78333	8.48499	10.03853	Stalled	chr4:142697294-142804612	105.319
Cast	181	0	3.016811	472	7.866667	6.04684	18.4955	Stalled	chr13:74831733-74947369	113.637
Galnt10	181	0	3.016811	565	9.416667	2.52705	24.17395	Stalled	chr11:57456943-57601002	142.06
Psmb8	180	0	3.000144	157	2.616667	260.497	6.161421	Stalled	chr17:34333139-34338399	3.261
B2m	180	0	3.000144	823	13.71667	749.696	2.85907	Stalled	chr2:121971422-121978818	5.397
Btg1	180	0	3.000144	205	3.416667	20.6085	10.61451	Stalled	chr10:96077634-96085443	5.81
Mrm1	180	0	3.000144	154	2.566667	10.5995	15.43157	Stalled	chr11:84626562-84635017	6.456
Tob2	180	0	3.000144	241	4.016667	19.6979	17.38733	Stalled	chr15:81678699-81690756	10.058
Slc19a1	180	0	3.000144	629	10.48333	7.73835	5.137638	Stalled	chr10:76494003-76513171	17.169
Cpd	180	0	3.000144	116	1.933333	0.622977	1.116903	Unclassified	chr11:76590709-76662510	69.802
Gadd45a	179	0	2.983476	24	0.4	13.3905	14.93873	Stalled	chr6:66985089-66989401	2.313
Bhlhe41	179	0	2.983476	141	2.35	21.9844	1.204271	Elongating	chr6:145811256-145815860	2.605
Hirip3	179	0	2.983476	160	2.666667	40.4763	4.16725	Stalled	chr7:134003485-134008636	3.152
Ctla4	179	123	2.983476	58	0.966667	4.07447	2.366229	Elongating	chr1:60963868-60972674	6.807
Mrps23	179	0	2.983476	134	2.233333	30.9047	14.95674	Stalled	chr11:88015919-88025009	7.091
Dcaf11	179	0	2.983476	144	2.4	16.0534	20.13222	Stalled	chr14:56176868-56188902	10.035
Rpa2	179	0	2.983476	510	8.5	31.6766	3.795775	Stalled	chr4:132322274-132334661	10.388
Milt6	179	0	2.983476	662	11.03333	13.3062	2.372741	Elongating	chr11:97522725-97546772	22.048
Cct3	179	0	2.983476	496	8.266667	71.9568	23.51325	Stalled	chr3:88099056-88125688	24.633
4933424B01Rik	179	0	2.983476	192	3.2	14.1965	76.82259	Stalled	chr6:146498153-146528357	28.205
Pdcd11	179	0	2.983476	923	15.38333	18.5313	14.4449	Stalled	chr19:47163255-47205635	40.381
Ccdc64	179	0	2.983476	370	6.166667	2.92531	1.440807	Unclassified	chr5:116099294-116183568	82.275

Lrrc16a	179	0	2.983476	1072	17.86667	1.84838	20.9566	Stalled	chr13:24104352-24374659	268.308
Adrb2	178	0	2.966809	12	0.2	15.5505	24.91213	Stalled	chr18:62337469-62341613	2.145
mmu-mir-150	178	0	2.966809	517	8.616667	ND	ND	Stalled	chr7:52374928-52377122	2.195
Tmed1	178	0	2.966809	137	2.283333	11.6592	3.13907	Stalled	chr9:21311823-21316630	2.808
Abhd11	178	0	2.966809	22	0.366667	19.7238	33.10878	Stalled	chr5:135483168-135488040	2.873
Ttc32	178	0	2.966809	45	0.75	5.67011	38.24368	Stalled	chr12:9034802-9043200	6.399
Klf16	178	0	2.966809	354	5.9	9.56217	6.165556	Stalled	chr10:80029865-80042041	10.177
Xab2	178	0	2.966809	439	7.316667	25.5764	3.954052	Stalled	chr8:3610089-3623296	11.208
Gys1	178	0	2.966809	199	3.316667	6.82278	14.46601	Stalled	chr7:52688208-52711987	21.78
Thra	178	0	2.966809	138	2.3	2.39078	3.608587	Stalled	chr11:98601186-98626425	23.24
Mrps34	177	0	2.950141	13	0.216667	44.0777	4.665906	Unclassified	chr17:25030064-25033218	1.155
2310035K24Rik	177	0	2.950141	18	0.3	9.46631	13.44292	Stalled	chr2:131034175-131039250	3.076
Unc50	177	0	2.950141	171	2.85	13.5034	11.91184	Stalled	chr1:37485016-37495969	8.954
Keap1	177	0	2.950141	343	5.716667	28.6971	3.548253	Stalled	chr9:21034173-21045776	9.604
Ankrd16	177	0	2.950141	90	1.5	17.0899	21.98494	Stalled	chr2:11697379-11711948	12.57
Tacc3	177	0	2.950141	241	4.016667	27.683	27.43442	Stalled	chr5:33998795-34014846	14.052
C87436	177	0	2.950141	235	3.916667	7.78362	49.39549	Stalled	chr6:86386639-86420379	31.741
Rbm39	177	0	2.950141	1598	26.63333	49.4046	11.64279	Stalled	chr2:155972974-156007976	33.003
Egln1	177	0	2.950141	351	5.85	16.5814	9.951038	Stalled	chr8:127432486-127475154	40.669
Il2ra	177	132	2.950141	682	11.36667	2.69753	3.715004	Stalled	chr2:11562418-11614820	50.403
S1pr4	176	0	2.933474	93	1.55	42.1926	0.64222	Elongating	chr10:80961222-80964882	1.661
Sepw1	176	0	2.933474	478	7.966667	276.83	4.491823	Stalled	chr7:16502556-16509720	5.165
Peo1	176	0	2.933474	91	1.516667	9.25777	17.80319	Stalled	chr19:45079047-45087252	6.206
Vps18	176	0	2.933474	142	2.366667	11.7895	8.324909	Stalled	chr2:119112477-119124189	9.713
Mta2	176	0	2.933474	456	7.6	61.7492	10.24117	Stalled	chr19:9014409-9026790	10.382
Hook2	176	0	2.933474	82	1.366667	4.58821	14.1848	Stalled	chr8:87512493-87527263	12.771
Itfg2	176	0	2.933474	182	3.033333	10.4226	27.61518	Stalled	chr6:128359461-128376928	15.468
Numb1	176	0	2.933474	87	1.45	1.14866	12.07658	Stalled	chr7:28041779-28067169	23.391
2610109H07Rik	176	0	2.933474	65	1.083333	0.155305	1.623798	Unclassified	chr4:147472546-147506807	32.262
Esy2	176	0	2.933474	277	4.616667	3.84793	91.4022	Stalled	chr12:117517694-117611571	91.878
4931428F04Rik	175	0	2.916806	55	0.916667	2.85697	24.31369	Stalled	chr8:107804309-107815428	9.12
C1nc	175	0	2.916806	141	2.35	2.6519	6.77761	Stalled	chr9:62684593-62699809	13.217
Gl25d1	175	0	2.916806	265	4.416667	19.4492	8.673402	Stalled	chr8:74132922-74148810	13.889
Op3	175	0	2.916806	252	4.2	9.42675	25.10055	Stalled	chr7:19811737-19832166	18.43
Gm10653	175	0	2.916806	175	2.916667	0	0	Stalled	chr9:62689283-62711831	20.549
Sirt2	175	0	2.916806	194	3.233333	16.1317	14.59763	Stalled	chr7:29549770-29573684	21.915
Mapkapk3	175	0	2.916806	488	8.133333	13.9704	7.610631	Stalled	chr9:107157257-107194208	34.952
Zc3h7a	175	33	2.916806	804	13.4	16.0981	18.23066	Stalled	chr16:11136687-11178486	39.8
H1f0	174	84	2.900139	145	2.416667	24.6163	2.618976	Stalled	chr15:78856641-78860930	2.29
Rps9	174	0	2.900139	471	7.85	1229.03	2.40866	Stalled	chr7:3653642-3658499	2.858
Tuba4a	174	0	2.900139	193	3.216667	34.2446	5.499508	Stalled	chr1:75211548-75217828	4.281
Il17re	174	0	2.900139	24	0.4	0.506666	1.917094	Unclassified	chr6:113406477-113420745	12.269
Lrrc68	174	0	2.900139	601	10.01667	12.9708	6.16918	Stalled	chr7:20116315-20149747	31.433
Rft1	174	0	2.900139	389	6.483333	3.55017	20.12924	Stalled	chr14:31465560-31504499	36.94
Cd47	174	39	2.900139	1288	21.46667	31.7862	23.11003	Stalled	chr16:49853766-49911796	56.031
Cdh17	174	64	2.900139	211	3.516667	2.45422	2.177943	Unclassified	chr4:11683303-11745052	59.75
Ppfbp2	174	0	2.900139	431	7.183333	3.7863	8.471031	Stalled	chr7:114736564-114888408	149.845
Hlcs	174	0	2.900139	788	13.13333	1.36282	0.499876	Stalled	chr16:94350911-94511463	158.553
Ier2	173	20	2.883471	177	2.95	44.9437	1.325744	Unclassified	chr8:87185229-87188751	1.523
Tmem107	173	0	2.883471	16	0.266667	9.49117	21.48727	Stalled	chr11:68882310-68886794	2.485
9030607L17Rik	173	0	2.883471	72	1.2	13.0179	2.822502	Stalled	chr10:80163437-80168127	2.691
Fabp5	173	0	2.883471	117	1.95	24.387	6.387431	Stalled	chr3:10010605-10016610	4.006
Giyd2	173	0	2.883471	40	0.666667	9.11628	30.68073	Stalled	chr7:133834649-133841297	4.649
Asb6	173	0	2.883471	447	7.45	16.666	1.965949	Elongating	chr2:30678617-30685820	5.204
Kctd12	173	0	2.883471	117	1.95	10.4724	16.24421	Stalled	chr14:103375797-103383854	6.058
Trim65	173	0	2.883471	112	1.866667	5.50161	13.57555	Stalled	chr11:115986021-115994442	6.422
Amz2	173	0	2.883471	89	1.483333	2.33427	15.31823	Stalled	chr11:109285259-109299462	12.204
B3gnt5	173	0	2.883471	265	4.416667	7.18167	3.166472	Stalled	chr16:19758326-19772846	12.521
Itgb1bp1	173	0	2.883471	110	1.833333	10.688	26.33009	Stalled	chr12:21275666-21294098	16.433
Dhb	173	0	2.883471	44	0.733333	0	1.65067	Unclassified	chr2:27019026-27038724	17.699
Fam73b	173	0	2.883471	136	2.266667	4.5144	9.434764	Stalled	chr2:30217854-30241039	21.186
Nat10	173	0	2.883471	737	12.28333	15.9288	18.69269	Stalled	chr2:103561415-103603407	39.993
Pycard	172	0	2.866804	197	3.283333	19.9752	1.371675	Elongating	chr7:135134886-135139381	2.496
Dpp7	172	0	2.866804	167	2.783333	5.06307	0.912964	Elongating	chr2:25207809-25213852	4.044
Nfkbid	172	0	2.866804	390	6.5	8.21743	1.633641	Elongating	chr7:31206322-31213765	5.444
Coro6	172	0	2.866804	35	0.583333	0.135766	0.347815	Unclassified	chr11:77275414-77283003	5.59
Sema6c	172	0	2.866804	25	0.416667	0.139749	0.723409	Unclassified	chr3:94966295-94977238	8.944
Cdc25b	172	0	2.866804	295	4.916667	37.3627	7.076924	Stalled	chr2:131010686-131024233	11.548
Cic	172	0	2.866804	454	7.566667	22.5494	7.833547	Stalled	chr7:26065197-26079167	11.971
Il27ra	172	0	2.866804	146	2.433333	7.00553	7.537335	Stalled	chr8:86554184-86568474	12.291
Txn1	172	0	2.866804	588	9.8	131.408	11.13626	Stalled	chr4:57956244-57971283	13.04
Akap8	172	0	2.866804	660	11	28.096	13.2031	Stalled	chr17:32440620-32460098	17.479
Ethe1	172	0	2.866804	241	4.016667	9.2731	1.247758	Stalled	chr7:25370561-25393944	21.384
Poir2a	172	68	2.866804	719	11.98333	26.6107	19.16077	Stalled	chr11:69547911-69573725	23.815
Kcp	172	0	2.866804	68	1.133333	0.365957	0.53606	Unclassified	chr6:29432035-29459934	25.9
Pcid2	172	0	2.866804	448	7.466667	9.73836	23.49758	Stalled	chr8:13077524-13107343	27.82
Parp1	172	0	2.866804	942	15.7	66.8988	6.17083	Stalled	chr1:182497105-182531385	32.281
St14	172	0	2.866804	304	5.066667	7.47371	4.633065	Stalled	chr9:30896174-30941384	43.211
Aldoa	171	0	2.850137	184	3.066667	579.936	7.71366	Stalled	chr7:133938749-133944697	3.949
Efcab4a	171	0	2.850137	21	0.35	0.159539	4.773422	Stalled	chr7:148644992-148652501	5.51
Fes	171	0	2.850137	65	1.083333	1.93936	3.840005	Stalled	chr7:87522643-87534832	10.19
Ptpn7	171	0	2.850137	441	7.35	17.9425	6.533925	Stalled	chr1:137027301-137041897	12.597
Stip1	171	0	2.850137	618	10.3	89.2045	8.066481	Stalled	chr19:7095185-7116516	19.332
Trim25	171	0	2.850137	1130	18.83333	29.52	6.244945	Stalled	chr11:88858716-88881607	20.892
Fam192a	171	0	2.850137	330	5.5	15.6665	16.01781	Stalled	chr8:97098840-97127626	26.787
Pde4dip	171	0	2.850137	135	2.25	8.9054	23.65335	Stalled	chr3:97542766-97573937	29.172

Dhtkd1	171	0	2.850137	93	1.55	0.590965	5.117557	Unclassified	chr2:5819105-5865838	44.734
BC016423	171	0	2.850137	776	12.93333	3.70163	17.19843	Stalled	chr13:3565280-3612354	45.075
Cd86	171	0	2.850137	1380	23	15.7724	6.370689	Stalled	chr16:36603954-36668163	62.21
Ptdss1	171	0	2.850137	377	6.283333	14.9726	36.26604	Stalled	chr13:67031765-67099337	65.573
Ephb2	171	0	2.850137	361	6.016667	0.099247	2.34045	Unclassified	chr4:136209524-136393850	182.327
1500012F01Rik	170	0	2.833469	643	10.71667	91.7666	2.028964	Stalled	chr2:166886433-166891362	2.93
Dusp6	170	0	2.833469	25	0.416667	12.3647	20.87402	Stalled	chr10:98723864-98730122	4.259
Psmc5	170	0	2.833469	329	5.483333	101.611	5.222166	Stalled	chr11:106115498-106124426	6.929
Epm2aip1	170	0	2.833469	87	1.45	7.87258	33.36805	Stalled	chr9:111172348-111181595	7.248
Zfp740	170	0	2.833469	123	2.05	12.3617	1.763593	Elongating	chr15:102036697-102046032	7.336
Nagk	170	55	2.833469	96	1.6	7.86859	22.5122	Stalled	chr6:83743050-83752549	7.5
Map2k7	170	0	2.833469	228	3.8	20.24	11.3652	Stalled	chr8:4236739-4247896	9.158
Coq6	170	0	2.833469	110	1.833333	14.2739	15.77489	Stalled	chr12:85700917-85714746	11.83
Mttr4	170	0	2.833469	502	8.366667	10.0721	14.37395	Stalled	chr11:87403718-87429798	24.081
D2hgdh	170	0	2.833469	54	0.9	2.20963	128.486	Stalled	chr1:95719816-95748751	26.936
Txnrd1	170	0	2.833469	1823	30.38333	24.9861	6.775912	Stalled	chr10:82319950-82360469	38.52
Gmcl1	170	0	2.833469	134	2.233333	6.64143	63.03033	Stalled	chr6:86641761-86685372	41.612
2610101N10Rik	170	0	2.833469	482	8.033333	5.61187	30.78082	Stalled	chr9:95357312-95414415	55.104
Mobkl2b	170	0	2.833469	1892	31.53333	4.12324	11.08383	Stalled	chr4:34899952-35106715	204.764
Tubb2c	169	0	2.816802	71	1.183333	103.091	12.23933	Stalled	chr2:25077681-25082161	2.481
Apoa4	169	0	2.816802	4	0.066667	0.092315	0.863248	Unclassified	chr9:46046926-46051541	2.616
Rimbp3	169	0	2.816802	37	0.616667	1.87526	0.231738	Unclassified	chr16:17206227-17214075	5.849
Ache	169	0	2.816802	286	4.766667	5.06289	0.90865	Elongating	chr5:137727504-137735691	6.188
Zp1	169	0	2.816802	32	0.533333	0.173194	0.568917	Unclassified	chr19:10988786-10997091	6.306
Gcdh	169	0	2.816802	63	1.05	10.0003	6.391624	Stalled	chr8:87410285-87419820	7.536
Trem12	169	0	2.816802	929	15.48333	13.827	3.178614	Stalled	chr17:48437362-48451859	12.498
Sec61a1	169	0	2.816802	746	12.43333	56.2584	9.411112	Stalled	chr6:88453600-88470794	15.195
Tpm4	169	0	2.816802	1364	22.73333	76.5218	3.804765	Stalled	chr8:74657190-74677028	17.839
Ttyh3	169	0	2.816802	435	7.25	16.9344	4.273759	Stalled	chr5:141096536-141126985	28.45
Kmo	169	0	2.816802	513	8.55	9.41329	4.707015	Stalled	chr1:177560323-177590984	28.662
Atf6	169	0	2.816802	2541	42.35	10.2969	11.34818	Stalled	chr1:172634587-172799902	163.316
Use1	168	0	2.800134	56	0.933333	51.6286	9.389433	Stalled	chr8:73889115-73893631	2.517
Surf1	168	0	2.800134	479	7.983333	80.3385	1.463893	Elongating	chr2:26768897-26774050	3.154
1810026J23Rik	168	0	2.800134	45	0.75	0	12.6376	Stalled	chr9:21395165-21400391	3.227
Mogs	168	0	2.800134	155	2.583333	31.9709	6.160146	Stalled	chr6:83063499-83068892	3.394
Fam136a	168	0	2.800134	88	1.466667	11.0315	11.08704	Stalled	chr6:86313676-86320052	4.377
Cxxc1	168	0	2.800134	124	2.066667	31.1965	5.940225	Stalled	chr18:74373865-74381145	5.281
Bcl2l12	168	0	2.800134	107	1.783333	18.9354	10.8726	Stalled	chr7:52246592-52254949	6.358
Eif2b5	168	0	2.800134	194	3.233333	16.8459	9.579628	Stalled	chr16:20496889-20509398	10.51
Matn1	168	0	2.800134	61	1.016667	0.25607	0.993783	Unclassified	chr4:130498299-130511391	11.093
Fam86	168	0	2.800134	347	5.783333	2.96318	5.223318	Stalled	chr16:5244247-5258049	11.803
5033414D02Rik	168	0	2.800134	116	1.933333	11.4164	5.80327	Stalled	chr19:29423166-29438361	13.196
2810006K23Rik	168	0	2.800134	88	1.466667	2.89464	70.9999	Stalled	chr5:124776097-124791847	13.751
Zbtb5	168	0	2.800134	240	4	9.04709	14.49674	Stalled	chr4:45004116-45027284	21.169
2010002N04Rik	168	0	2.800134	275	4.583333	7.21949	7.635288	Stalled	chr18:60633844-60663637	27.794
Ndufs1	168	0	2.800134	262	4.366667	17.817	36.80651	Stalled	chr1:63190166-63225396	33.231
Myst2	168	0	2.800134	934	15.56667	15.9781	16.98615	Stalled	chr11:95135572-95173515	35.944
Iqce	168	0	2.800134	216	3.6	2.47802	16.11226	Stalled	chr5:141139458-141180332	38.875
Pdcd10	168	0	2.800134	315	5.25	3.90767	24.40912	Stalled	chr3:75320411-75362721	40.311
Brf1	168	0	2.800134	846	14.1	14.8887	13.37695	Stalled	chr12:114198072-114240832	40.761
Actr3	168	51	2.800134	1794	29.9	116.869	12.64173	Stalled	chr1:127289482-127334067	42.586
Mphosph9	168	0	2.800134	654	10.9	3.06864	16.9639	Stalled	chr5:124700967-124780460	77.494
Pcbp3	168	0	2.800134	365	6.083333	1.60851	21.5297	Stalled	chr10:76224598-76426692	200.095
Hist1h4a	167	48	2.783467	0	0	0	408	Unclassified	chr13:23852714-23855026	0.313
Mpeg1	167	0	2.783467	59	0.983333	21.2816	1.234658	Elongating	chr19:12533268-12539775	4.508
Ppp4c	167	0	2.783467	344	5.733333	70.5865	6.893923	Stalled	chr7:133929381-133937985	6.605
2310045N01Rik	167	0	2.783467	182	3.033333	29.7428	3.680684	Stalled	chr8:72661611-72671157	7.547
Slc25a22	167	0	2.783467	295	4.916667	12.0655	4.277313	Stalled	chr7:148615650-148625517	7.868
A030048B08Rik	167	0	2.783467	192	3.2	5.86582	9.94621	Stalled	chr5:3583978-3589547	12.57
C430107D22Rik	167	0	2.783467	383	6.383333	51.3357	5.615013	Stalled	chr17:32527605-32542526	12.922
Ms4a15	167	0	2.783467	71	1.183333	1.00629	0.32833	Unclassified	chr19:11052796-11069740	14.945
Lsm11	167	0	2.783467	153	2.55	3.2934	8.174544	Stalled	chr11:45741770-45760437	16.668
Usp52	167	64	2.783467	206	3.433333	7.06653	30.05872	Stalled	chr10:127738390-127758403	18.014
Ppm1k	167	0	2.783467	157	2.616667	2.72843	16.00725	Stalled	chr6:57456495-57487420	28.926
Atad2	167	0	2.783467	495	8.25	8.79061	28.21104	Stalled	chr15:57925601-57968637	41.037
Pex1	167	0	2.783467	176	2.933333	2.37448	34.09975	Stalled	chr5:3594065-3637101	41.037
Hk1	167	0	2.783467	558	9.3	25.3925	32.89449	Stalled	chr10:61731602-61805169	17.568
Lnep	167	46	2.783467	820	13.66667	4.21954	49.77851	Stalled	chr17:17664686-17763453	96.768
Ulk4	167	0	2.783467	671	11.18333	0.575414	14.59119	Stalled	chr9:120873573-121188290	312.718
Thtpa	166	0	2.766799	101	1.683333	5.04005	3.749205	Stalled	chr14:55711671-55717819	4.149
Atp5b	166	0	2.766799	303	5.05	425.527	7.14413	Stalled	chr10:127518362-127527444	7.083
Osr2	166	0	2.766799	24	0.4	0.329777	0.410333	Unclassified	chr15:35223866-35233060	7.195
Fam72a	166	0	2.766799	114	1.9	9.98939	37.2174	Stalled	chr1:133422565-133436449	11.885
Pik3ip1	166	0	2.766799	727	12.11667	13.329	0.700491	Stalled	chr11:3228733-3242974	12.242
Psat1	166	0	2.766799	445	7.416667	45.8734	14.17446	Stalled	chr19:15979621-16001515	19.895
Cse1l	166	0	2.766799	1157	19.28333	18.4622	18.03225	Stalled	chr2:166729595-166771887	40.293
Emid1	166	0	2.766799	248	4.133333	1.12671	4.296944	Stalled	chr11:5006268-5054225	45.958
Kif9	166	0	2.766799	121	2.016667	1.74525	39.85873	Stalled	chr9:110377461-110427678	48.218
Bola2	165	0	2.750132	0	0	148.815	315	Unclassified	chr7:133837513-133840207	0.695
Rnasek	165	0	2.750132	65	1.083333	53.2004	0.703083	Elongating	chr11:70051627-70055348	1.722
Rilp	165	0	2.750132	29	0.483333	0.973937	8.810195	Stalled	chr11:75321595-75326668	3.074
Lrrc25	165	0	2.750132	139	2.316667	10.5994	0.762549	Elongating	chr8:73138742-73144749	4.008
Uap11	165	0	2.750132	55	0.916667	12.7609	6.580983	Stalled	chr2:25217011-25223146	4.136
Fbxw5	165	0	2.750132	74	1.233333	13.583	12.6471	Stalled	chr2:25354297-25360990	4.694
Fen1	165	0	2.750132	235	3.916667	57.4301	5.865045	Stalled	chr19:10273628-10280433	4.806
Lymr5	165	0	2.750132	84	1.4	5.77116	13.1815	Stalled	chr6:145157666-145165062	5.397

Tcb	165	0	2.750132	85	1.416667	39.6766	24.47661	Stalled	chr7:31009149-31019048	7.9
Ccdc94	165	0	2.750132	232	3.866667	11.3627	8.356598	Stalled	chr17:56096609-56107374	8.766
Eif3k	165	45	2.750132	383	6.383333	175.878	7.074255	Stalled	chr7:29756391-29768833	10.443
Vps52	165	0	2.750132	219	3.65	16.6475	19.79532	Stalled	chr17:34090826-34103433	10.608
H2-Eb2	165	84	2.750132	361	6.016667	15.5888	7.273078	Stalled	chr17:34460619-34477171	14.553
Mlf1ip	165	0	2.750132	332	5.533333	2.13221	14.86657	Stalled	chr8:47635422-47664938	27.517
Rpgrip1	165	0	2.750132	641	10.68333	1.96841	0.143205	Stalled	chr14:52728577-52781013	50.437
Gm5134	165	0	2.750132	211	3.516667	2.34946	10.20024	Stalled	chr10:75415258-75472334	55.077
Rbks	165	0	2.750132	280	4.666667	5.81424	68.24376	Stalled	chr5:31926811-32001983	73.173
Aff1	165	0	2.750132	1655	27.58333	6.43852	21.17189	Stalled	chr5:104181180-104284341	101.162
Tspan9	165	0	2.750132	292	4.866667	0.146752	1.148696	Unclassified	chr6:127911417-128095596	182.18
Rnf5	164	0	2.733464	21	0.35	32.2047	4.887821	Stalled	chr17:34738043-34742506	2.464
Myf6	164	0	2.733464	196	3.266667	68.5515	2.591991	Stalled	chr10:127927916-127932881	2.966
Ccdc28b	164	0	2.733464	106	1.766667	28.415	3.913386	Stalled	chr4:129296517-129303152	4.636
Tex261	164	0	2.733464	79	1.316667	23.4755	11.17984	Stalled	chr6:83720409-83727806	5.398
Slc25a45	164	0	2.733464	71	1.183333	7.71081	4.240505	Stalled	chr19:5876465-5885768	7.304
D17Wsu104e	164	0	2.733464	299	4.983333	62.454	6.143192	Stalled	chr17:56315963-56325343	7.381
Fbl	164	0	2.733464	347	5.783333	99.3993	7.935107	Stalled	chr7:28952766-28964288	9.523
Puf60	164	0	2.733464	602	10.03333	65.1308	9.065509	Stalled	chr15:75900613-75913376	10.764
Pex26	164	0	2.733464	54	0.9	4.21757	15.47253	Stalled	chr6:121131684-121146203	12.52
1600014C10Rik	164	0	2.733464	291	4.85	5.45348	11.56923	Stalled	chr7:38966805-38982584	13.78
1700021C14Rik	164	0	2.733464	55	0.916667	6.04623	102.0194	Stalled	chr3:88086681-88102760	14.08
4933437F05Rik	164	0	2.733464	105	1.75	2.60477	1.085282	Unclassified	chr12:88562072-88581551	17.48
Afg311	164	0	2.733464	645	10.75	17.071	11.25513	Stalled	chr8:125999761-126027815	26.055
Ppp2r4	164	0	2.733464	1078	17.96667	70.9314	8.572224	Stalled	chr2:30269569-30303327	31.759
Top3a	164	0	2.733464	680	11.33333	8.84997	21.54227	Stalled	chr11:60553560-60592867	37.308
Pak4	164	0	2.733464	369	6.15	4.54635	6.781168	Stalled	chr7:29343837-29385203	39.367
Arvcf	164	0	2.733464	249	4.15	5.30439	1.884016	Unclassified	chr16:18346366-18407167	58.802
Srcin1	164	0	2.733464	241	4.016667	0.664022	0.211872	Unclassified	chr11:97370653-97438440	65.788
Map2k1	164	0	2.733464	690	11.5	38.234	24.18961	Stalled	chr9:64033599-64103412	67.814
Slc25a1	163	0	2.716797	80	1.333333	48.461	8.10861	Stalled	chr16:17925304-17930312	3.009
Alpi	163	0	2.716797	9	0.15	0.093309	0.448811	Unclassified	chr1:88994578-89000181	3.604
Paqr6	163	0	2.716797	23	0.383333	0.133096	5.463204	Stalled	chr3:88166510-88172463	3.954
Cabp4	163	0	2.716797	119	1.983333	2.04976	0.156546	Stalled	chr19:4135422-4141609	4.188
Slc39a4	163	0	2.716797	24	0.4	3.89755	28.93448	Stalled	chr15:76442812-76449282	4.471
Isl2	163	0	2.716797	19	0.316667	1.05226	0.175025	Unclassified	chr9:55386955-55393985	5.031
Zfp869	163	0	2.716797	266	4.433333	6.01459	21.16121	Stalled	chr8:72229036-72242801	11.766
Map3k11	163	0	2.716797	329	5.483333	17.8401	6.894158	Stalled	chr19:5687130-5702864	13.735
Nudt6	163	0	2.716797	66	1.1	6.13249	62.56316	Stalled	chr3:37303905-37320512	14.608
Apc2	163	0	2.716797	360	6	0.237287	0.08224	Stalled	chr10:79762564-79781001	16.438
Traf7	163	0	2.716797	311	5.183333	23.8749	20.27868	Stalled	chr17:24645794-24666775	18.982
Brd9	163	0	2.716797	312	5.2	14.7793	25.15867	Stalled	chr13:74073285-74098343	23.059
Zfp541	163	0	2.716797	34	0.566667	0.747065	0.815083	Unclassified	chr7:16655290-16681677	24.388
Ccrl2	162	0	2.700129	23	0.383333	7.34189	2.763801	Stalled	chr9:110957338-110961774	2.437
Cd72	162	0	2.700129	93	1.55	37.9695	7.760252	Stalled	chr4:43460595-43469498	6.904
Kptn	162	0	2.700129	65	1.083333	14.798	11.49302	Stalled	chr7:16703224-16712863	7.64
Cog8	162	0	2.700129	301	5.016667	20.7127	9.083336	Stalled	chr8:109572608-109582637	8.03
Gtpbp2	162	0	2.700129	295	4.916667	26.6567	2.306037	Elongating	chr17:46295980-46306318	8.339
Prkcs	162	0	2.700129	275	4.583333	55.7262	6.966801	Stalled	chr9:21805478-21818666	11.189
Aurka	162	0	2.700129	317	5.283333	23.5124	10.51864	Stalled	chr2:172181695-172198006	14.312
Paics	162	0	2.700129	302	5.033333	39.8808	27.85187	Stalled	chr5:77378435-77396531	16.097
Hexb	162	40	2.700129	271	4.516667	18.0593	10.15251	Stalled	chr13:97946286-97970312	22.027
Riok1	162	0	2.700129	396	6.6	14.4369	16.61498	Stalled	chr13:38127163-38153298	24.136
Nos2	162	0	2.700129	106	1.766667	0.247333	0.795754	Unclassified	chr11:78732360-78773626	39.267
Nab1	162	0	2.700129	1641	27.35	21.6459	7.505639	Stalled	chr1:52512693-52559292	44.6
Smek2	162	0	2.700129	658	10.96667	18.236	24.08109	Stalled	chr11:29070906-29120796	47.891
Asx1	162	0	2.700129	1560	26	11.612	9.848411	Stalled	chr2:153169874-153229743	57.87
Sfxn5	162	0	2.700129	402	6.7	1.27517	33.8857	Stalled	chr6:85163045-85285416	120.372
Sh3gl3	162	0	2.700129	152	2.533333	0.052155	0.9415	Unclassified	chr7:89317727-89459525	136.199
Rps21	161	0	2.683462	4	0.066667	391.816	8.154659	Unclassified	chr2:179990083-179993149	1.067
Ndufa6	161	0	2.683462	130	2.166667	90.2571	7.816663	Stalled	chr15:82180568-82186721	4.154
Sfn2	161	54	2.683462	501	8.35	59.4726	2.755792	Stalled	chr11:82876613-82884180	5.568
Spns1	161	65	2.683462	84	1.4	16.7422	1.66415	Elongating	chr7:133513575-133523448	7.874
Pno1	161	49	2.683462	169	2.816667	31.3431	10.76862	Stalled	chr11:17103202-17113592	8.391
Cdca8	161	0	2.683462	297	4.95	49.8716	9.991032	Stalled	chr4:124595708-124616161	18.454
Tra2b	161	0	2.683462	679	11.31667	28.6582	12.56081	Stalled	chr16:22245813-22268002	20.19
Atp13a2	161	0	2.683462	455	7.583333	26.4976	3.549797	Stalled	chr4:140540787-140563616	20.83
Gfr1op2	161	0	2.683462	231	3.85	17.9581	47.79791	Stalled	chr6:146524432-146547720	21.289
Wdr92	161	49	2.683462	120	2	6.64254	41.54259	Stalled	chr11:17109895-17135203	23.309
Cnr2	161	0	2.683462	509	8.483333	9.52416	4.781189	Stalled	chr4:135449318-135476125	24.808
Dhcr7	161	54	2.683462	425	7.083333	19.9078	8.796837	Stalled	chr7:151007071-151034315	25.245
Fbxo31	161	0	2.683462	295	4.916667	9.83458	9.660847	Stalled	chr8:124075878-124104706	26.829
Zfp64	161	0	2.683462	473	7.883333	13.3079	11.87212	Stalled	chr2:168750860-168783087	30.228
Usp38	161	0	2.683462	452	7.533333	12.9893	26.12016	Stalled	chr8:83504631-83540805	34.175
Fbxo18	161	0	2.683462	122	2.033333	6.63328	37.44923	Stalled	chr2:11664199-11701154	34.956
Gmpr	161	0	2.683462	193	3.216667	1.5828	2.462865	Unclassified	chr13:45600837-45641750	38.914
Rbl1	161	0	2.683462	721	12.01667	7.09324	37.23115	Stalled	chr2:156971638-157032270	58.633
Atp6v0a4	161	55	2.683462	130	2.166667	0.230081	0.366178	Unclassified	chr6:37998482-38076586	76.105
Vps53	161	0	2.683462	1002	16.7	13.8478	25.67804	Stalled	chr11:75859727-75995132	133.406
Eif1ad	160	0	2.666794	97	1.616667	23.607	16.35055	Stalled	chr19:5364812-5371511	4.7
Npas4	160	0	2.666794	8	0.133333	0.031288	0.73197	Unclassified	chr19:4984354-4991971	5.618
Cln5	160	0	2.666794	135	2.25	10.2434	15.06274	Stalled	chr14:103467432-103476847	7.416
Mcmr8	160	0	2.666794	532	8.866667	15.3766	5.659099	Stalled	chr11:60589026-60601789	10.764
Scm4	160	0	2.666794	289	4.816667	38.5959	17.12928	Stalled	chr16:15623989-15639493	13.505
Triobp	160	0	2.666794	578	9.633333	19.5471	7.20117	Stalled	chr15:78811485-78836299	22.815
Ppfia3	160	0	2.666794	147	2.45	1.57738	9.589062	Stalled	chr7:52594495-52624389	27.895

Gorasp2	160	0	2.666794	519	8.65	26.4799	15.77571	Stalled	chr2:70497565-70529782	30.218
Mastl	160	0	2.666794	236	3.933333	3.9063	52.01253	Stalled	chr2:22972064-23013544	39.481
Aco1	160	0	2.666794	278	4.633333	9.18988	44.91612	Stalled	chr4:40088297-40146042	55.746
Zfyve28	160	0	2.666794	197	3.283333	0.52167	2.235496	Unclassified	chr5:34537542-34632973	93.432
Frmvd5	160	0	2.666794	431	7.183333	0.457641	3.013955	Unclassified	chr2:121371264-121634793	261.53
Gps2	159	0	2.650127	492	8.2	28.6184	1.195419	Elongating	chr11:69725693-69730093	2.401
Hist2h2be	159	0	2.650127	18	0.3	8.19434	38.78536	Stalled	chr3:96023043-96027661	2.619
Zc3h10	159	0	2.650127	108	1.8	11.8388	26.80851	Stalled	chr10:127980620-127986800	4.181
Rad23a	159	0	2.650127	410	6.833333	23.9741	7.384435	Stalled	chr8:87358550-87366540	5.991
Exoc8	159	0	2.650127	173	2.883333	4.12257	14.9299	Stalled	chr8:127414198-127423605	7.408
Obfc2b	159	0	2.650127	72	1.2	27.5789	8.577459	Stalled	chr10:127838450-127848852	8.403
Ankrd13d	159	0	2.650127	66	1.1	4.9675	18.40814	Stalled	chr19:4270179-4285137	12.959
Ptger2	159	0	2.650127	114	1.9	4.28449	1.371538	Stalled	chr14:45605785-45623495	15.711
Ino80c	159	0	2.650127	205	3.416667	11.7843	24.55569	Stalled	chr18:24263261-24282320	17.06
Got1	159	0	2.650127	673	11.21667	25.4165	11.26199	Stalled	chr19:43574242-43601095	24.854
Fam118a	159	0	2.650127	224	3.733333	3.6734	29.57011	Stalled	chr15:84865491-84893258	25.768
Ctbp1	159	0	2.650127	840	14	70.7821	9.272042	Stalled	chr5:33590371-33619618	27.248
Traf3ip1	159	0	2.650127	142	2.366667	4.9469	15.30622	Stalled	chr1:93389253-93424841	33.589
Cdkl4	159	0	2.650127	135	2.25	0.153044	9.918089	Stalled	chr17:80922889-80965174	40.286
Crocc	159	0	2.650127	269	4.483333	2.69546	33.01655	Stalled	chr4:140572552-140618460	43.909
B3galt2	159	0	2.650127	305	5.083333	7.18139	43.47123	Stalled	chr13:14044940-14091335	44.396
Paxip1	159	0	2.650127	868	14.46667	12.9861	22.73561	Stalled	chr5:28067204-28119879	50.676
Inpp5b	159	0	2.650127	454	7.566667	6.22248	5.490222	Stalled	chr4:124417121-124478755	59.635
Gnaq	159	0	2.650127	1708	28.46667	3.76291	11.37777	Stalled	chr19:16205320-16461943	254.624
Tusc4	158	0	2.63346	28	0.466667	7.54871	11.38926	Stalled	chr9:107442539-107448037	3.499
Yod1	158	0	2.63346	50	0.833333	2.89979	25.83756	Stalled	chr1:132611903-132618634	4.732
Pnpla2	158	0	2.63346	84	1.4	13.2251	6.946882	Stalled	chr7:148639086-148646642	5.557
Daxx	158	0	2.63346	185	3.083333	21.8965	7.8501	Stalled	chr17:34044442-34052534	6.093
9430023L20Rik	158	0	2.63346	60	1	21.1171	17.9434	Stalled	chr15:101112731-101121365	6.635
Hgfac	158	0	2.63346	15	0.25	0.115792	1.127125	Unclassified	chr5:35382201-35391085	6.885
3110040N11Rik	158	0	2.63346	51	0.85	10.6155	52.8645	Stalled	chr7:88927072-88936339	7.268
Actr5	158	0	2.63346	249	4.15	11.8711	6.6931	Stalled	chr2:158448648-158464947	14.3
Mx1	158	0	2.63346	347	5.783333	3.85095	4.767606	Stalled	chr16:97668641-97686613	15.873
Mterfd1	158	0	2.63346	123	2.05	2.29071	48.48137	Stalled	chr13:67013033-67036008	20.976
Cad	158	0	2.63346	701	11.68333	29.9672	9.585889	Stalled	chr5:31355183-31380852	23.67
Eif3b	158	0	2.63346	1206	20.1	96.1288	5.852594	Stalled	chr5:140893258-140919312	24.055
Pcmt1	158	0	2.63346	291	4.85	16.5545	41.71818	Stalled	chr10:7350034-7385382	33.349
Galm	158	0	2.63346	117	1.95	0.867742	2.933039	Unclassified	chr17:80524810-80584372	57.563
Adipor2	158	0	2.63346	1079	17.98333	25.8003	0.609878	Stalled	chr6:119303167-119369501	64.335
Adcy3	158	0	2.63346	494	8.233333	3.20994	23.6091	Stalled	chr12:4131396-4213524	80.129
Antxr2	158	70	2.63346	271	4.516667	2.4802	43.97269	Stalled	chr5:98313706-98461981	146.276
Chst14	157	0	2.616792	19	0.316667	7.14187	4.433536	Stalled	chr2:118750232-118754317	2.086
H3f3b	157	126	2.616792	83	1.383333	150.583	12.48134	Stalled	chr11:115883274-115887818	2.545
Gabarap	157	0	2.616792	29	0.483333	63.8212	16.99908	Stalled	chr11:69802871-69808451	3.581
Tmem186	157	0	2.616792	120	2	7.73361	7.202095	Stalled	chr16:8633823-8639794	3.972
Nudt18	157	0	2.616792	52	0.866667	4.87932	8.959624	Stalled	chr14:70975653-70982378	4.726
Calhm2	157	0	2.616792	180	3	6.22295	1.915445	Elongating	chr19:47206721-47214784	6.064
Gpatch3	157	0	2.616792	268	4.466667	13.7096	8.084069	Stalled	chr4:133128659-133140157	9.499
Th1l	157	0	2.616792	735	12.25	23.3219	1.650127	Elongating	chr2:174239304-174253003	11.7
Unc119b	157	0	2.616792	264	4.4	14.4841	1.905901	Elongating	chr5:115572574-115586984	12.411
Fam53c	157	0	2.616792	202	3.366667	10.0628	2.567638	Elongating	chr18:34916559-34933414	14.856
Gm525	157	0	2.616792	166	2.766667	0.528805	0.098928	Stalled	chr11:88933154-88954378	19.225
Suvp311	157	0	2.616792	432	7.2	10.6989	12.62641	Stalled	chr10:61892125-61914441	20.317
Cntrob	157	0	2.616792	364	6.066667	9.93959	19.43326	Stalled	chr11:69112997-69139375	24.379
Akap8l	157	0	2.616792	445	7.416667	21.3482	14.69769	Stalled	chr17:32458368-32489522	29.155
Mblac2	157	0	2.616792	46	0.766667	2.33496	121.3663	Stalled	chr13:81848415-81892274	41.86
Tsc22d2	157	0	2.616792	344	5.733333	6.58421	14.87364	Stalled	chr3:58217610-58270709	51.1
Scarb1	157	0	2.616792	993	16.55	26.008	8.768054	Stalled	chr5:125757459-125823444	63.986
Pnpla7	157	0	2.616792	419	6.983333	4.80108	37.1191	Stalled	chr2:24829552-24909591	78.04
Foxo3	157	0	2.616792	587	9.783333	5.73151	17.00936	Stalled	chr10:41905591-41998548	90.958
Ptpra	157	0	2.616792	726	12.1	13.0104	29.5766	Stalled	chr2:130274013-130380036	104.024
Crim1	157	65	2.616792	430	7.166667	1.77358	6.593749	Stalled	chr17:78597836-78773654	173.819
Rrs1	156	0	2.600125	21	0.35	40.2679	14.02213	Stalled	chr1:9533488-9537535	2.048
Fam166a	156	0	2.600125	413	6.883333	0.189541	0.036603	Stalled	chr2:25072264-25077798	3.535
9930012K11Rik	156	0	2.600125	33	0.55	1.26012	17.34664	Stalled	chr14:70554211-70561309	5.099
Nme2	156	0	2.600125	220	3.666667	251.428	8.787596	Stalled	chr11:93811128-93819321	6.194
Dcca5	156	0	2.600125	196	3.266667	16.9661	7.995676	Stalled	chr19:6083096-6091773	6.678
Dmap1	156	0	2.600125	131	2.183333	12.404	4.184992	Stalled	chr4:117347290-117356830	7.541
Ddost	156	0	2.600125	302	5.033333	89.3226	7.27843	Stalled	chr4:137858652-137868526	7.875
Ngdn	156	0	2.600125	129	2.15	27.6397	15.62648	Stalled	chr14:55632290-55642972	8.683
Tmem140	156	0	2.600125	231	3.85	3.98857	2.635702	Elongating	chr6:34811145-34824946	11.802
Capn10	156	0	2.600125	124	2.066667	4.7366	42.89606	Stalled	chr1:94828984-94844525	13.542
Tnfrsf10b	156	0	2.600125	144	2.4	2.7518	2.191705	Elongating	chr14:70165278-70184210	16.933
Mum1	156	0	2.600125	294	4.9	8.67428	5.238243	Stalled	chr10:79687342-79707889	18.548
Arf4	156	0	2.600125	254	4.233333	21.2917	30.80622	Stalled	chr14:27455682-27476744	19.063
Ppp1r7	156	0	2.600125	327	5.45	9.84525	11.61962	Stalled	chr1:95238221-95264195	23.975
Fam18a	156	0	2.600125	618	10.3	2.15728	0.200321	Stalled	chr16:10420651-10449443	26.793
Tor1aip1	156	0	2.600125	717	11.95	16.3735	14.49371	Stalled	chr1:157851729-157885610	31.882
Tor1aip2	156	0	2.600125	942	15.7	10.8157	14.14446	Stalled	chr1:157880793-157915987	33.195
BC051142	156	0	2.600125	186	3.1	0.524595	78.69771	Stalled	chr17:34533764-34597677	61.914
Taf4a	156	0	2.600125	727	12.11667	7.81163	27.63394	Stalled	chr2:179646850-179713351	64.502
Spata5	156	0	2.600125	1043	17.38333	4.70748	31.9362	Stalled	chr3:37317201-37478017	158.817
Rnu11	155	39	2.583457	0	0	1.72057	461	Unclassified	chr4:131825993-131828101	0.109
Psme2	155	0	2.583457	48	0.8	72.031	8.68098	Stalled	chr14:56206276-56211858	3.583
Chad	155	0	2.583457	43	0.716667	0.628023	1.724677	Elongating	chr11:94424387-94430441	4.055
Gas2l1	155	0	2.583457	47	0.783333	1.16994	1.233766	Stalled	chr11:4960377-4967303	4.927

Slc30a1	155	0	2.583457	85	1.416667	3.45738	14.2037	Stalled	chr1:193728659-193737126	6.468
Mat2a	155	0	2.583457	338	5.633333	40.3634	10.77587	Stalled	chr6:72382792-72391552	6.761
D10Jhu81e	155	0	2.583457	129	2.15	19.9595	11.31137	Stalled	chr10:77624811-77634513	7.703
Atf6b	155	0	2.583457	300	5	37.6127	4.110872	Stalled	chr17:34782124-34792017	7.894
Netd8	155	0	2.583457	139	2.316667	189.622	13.22713	Stalled	chr14:56281103-56292743	9.641
Ttrap	155	0	2.583457	89	1.483333	10.4219	41.54876	Stalled	chr13:24921527-24934021	10.495
Kctd7	155	0	2.583457	74	1.233333	3.26322	21.99056	Stalled	chr5:130618757-130631678	10.922
Pscm1	155	0	2.583457	365	6.083333	57.5133	0.85624	Stalled	chr12:101348540-101361574	11.035
Isca1	155	0	2.583457	146	2.433333	5.30699	25.59783	Stalled	chr13:59856775-59873150	14.376
Fam46c	155	341	2.583457	1521	25.35	31.9119	3.509591	Stalled	chr3:100275460-100295115	17.656
Ficn	155	0	2.583457	253	4.216667	8.36053	15.00501	Stalled	chr11:59605252-59625275	18.024
Isoc2b	155	0	2.583457	38	0.633333	4.98746	74.67263	Stalled	chr7:4796561-4819781	21.221
1300001I01Rik	155	0	2.583457	777	12.95	16.4155	4.365105	Stalled	chr11:74460996-74484349	21.354
Trip13	155	0	2.583457	299	4.983333	10.6214	29.32114	Stalled	chr13:74049909-74077215	25.307
Afap11i	155	0	2.583457	104	1.733333	0.052727	0.695123	Unclassified	chr18:61889915-61948316	56.402
Gbf1	155	0	2.583457	845	14.08333	10.3718	20.12077	Stalled	chr19:46225047-46361000	133.954
Bre	155	0	2.583457	1602	26.7	12.6861	87.70595	Stalled	chr5:31998422-32387112	386.691
BC056474	154	0	2.56679	2	0.033333	25.1301	25.27418	Unclassified	chr8:87602861-87606238	1.378
Foxd4	154	0	2.56679	8	0.133333	0.401182	0.432056	Unclassified	chr19:24973454-24977799	2.346
Rrad	154	0	2.56679	77	1.283333	37.5317	5.666919	Stalled	chr8:107151965-107157221	3.257
Tmem129	154	0	2.56679	74	1.233333	7.71385	14.12371	Stalled	chr5:33995864-34002481	4.618
Cnpy2	154	0	2.56679	62	1.033333	39.7914	13.50586	Stalled	chr10:127757514-127764243	4.73
Tmem14c	154	0	2.56679	132	2.2	58.6519	13.62288	Stalled	chr13:41109618-41117947	6.33
Sema3g	154	0	2.56679	76	1.266667	0.194617	2.210526	Stalled	chr14:32029058-32042697	11.64
Brp44l	154	0	2.56679	95	1.583333	10.9933	33.71859	Stalled	chr17:8474677-8490526	13.85
Hnrrnpf	154	0	2.56679	1779	29.65	53.8457	4.974475	Stalled	chr6:117854799-117875639	18.841
Mcm5	154	0	2.56679	1024	17.06667	58.1153	5.690689	Stalled	chr8:77631426-77652338	18.913
Brp44	154	0	2.56679	60	1	19.626	68.8068	Stalled	chr1:167389338-167411345	20.008
Def8	154	0	2.56679	158	2.633333	5.01522	10.96968	Stalled	chr8:125964885-125987799	20.915
Nlrc3	154	0	2.56679	399	6.65	3.31436	5.972371	Stalled	chr16:3946932-3978632	29.701
Cars	154	0	2.56679	919	15.31667	17.2678	5.423828	Stalled	chr7:150743609-150787947	42.339
Rnft2	154	0	2.56679	203	3.383333	0.944171	45.32909	Stalled	chr5:118640744-118697034	54.291
Syt7	154	0	2.56679	97	1.616667	0.195801	1.970511	Unclassified	chr19:10461579-10527671	64.093
Mga	154	0	2.56679	461	7.683333	2.92507	31.90069	Stalled	chr2:119720963-119795317	72.355
Gabbr2	154	0	2.56679	580	9.666667	0.057702	0	Unclassified	chr4:46676769-47006586	327.818
Aurkaip1	153	0	2.550122	9	0.15	74.4279	15.51567	Unclassified	chr4:155203754-155207168	1.415
Cyb561d2	153	0	2.550122	70	1.166667	6.05395	3.512803	Stalled	chr9:107441341-107446196	2.856
Rabac1	153	0	2.550122	13	0.216667	57.0567	9.648865	Stalled	chr7:25754768-25759747	2.98
Fbxl6	153	0	2.550122	33	0.55	23.1772	18.32555	Stalled	chr15:76366159-76371176	3.018
Jmjd6	153	0	2.550122	178	2.966667	39.7262	13.35519	Stalled	chr11:116698745-116706763	6.019
1110005A03Rik	153	0	2.550122	482	8.033333	13.499	5.127042	Stalled	chr11:116702828-116711053	6.226
Ddx5	153	11	2.550122	541	9.016667	70.0053	7.56803	Stalled	chr11:106641669-106661808	8.14
Rnaseh2a	153	0	2.550122	113	1.883333	13.4128	8.513538	Stalled	chr8:87480508-87491910	9.403
Nme1	153	0	2.550122	255	4.25	116.399	7.012838	Stalled	chr11:93820238-93831835	9.598
8430406I07Rik	153	0	2.550122	112	1.866667	3.12036	47.19555	Stalled	chr2:144094770-144106995	10.196
Tcfap4	153	0	2.550122	516	8.6	8.24145	2.095644	Elongating	chr16:4544660-4561720	15.061
BC031781	153	0	2.550122	356	5.933333	13.0795	18.67051	Stalled	chr1:182779281-182798245	16.965
Fcho1	153	0	2.550122	1100	18.33333	33.5494	1.036478	Elongating	chr8:74232285-74251580	17.296
Atp6v1d	153	0	2.550122	86	1.433333	20.3216	41.56507	Stalled	chr12:79943968-79964625	18.658
Syt16	153	0	2.550122	311	5.183333	12.8778	9.401146	Stalled	chr2:173900551-173925272	22.722
Frmf8	153	44	2.550122	370	6.166667	17.2542	7.858863	Stalled	chr19:5850973-5877208	24.236
Parp9	153	0	2.550122	627	10.45	19.6459	7.027602	Stalled	chr16:35936555-35972691	34.137
Nek9	153	0	2.550122	569	9.483333	16.4357	18.15152	Stalled	chr12:86640463-86682312	39.85
1110003E01Rik	153	0	2.550122	392	6.533333	7.95024	26.83453	Stalled	chr5:65839993-65886074	44.082
Tnxb	153	0	2.550122	88	1.466667	0.054891	1.413552	Unclassified	chr17:34805479-34856572	49.094
Nup160	153	0	2.550122	1044	17.4	9.22699	1.001878	Elongating	chr2:90515371-90576485	59.115
Cfrl5	153	56	2.550122	595	9.916667	9.18281	3.491175	Stalled	chr3:87237703-87304600	64.898
Kcnq1	153	0	2.550122	1509	25.15	0.052326	0.872064	Stalled	chr7:150291158-150612947	319.79
Attnl1	153	0	2.550122	870	14.5	1.22464	35.59538	Stalled	chr19:57683523-58207828	522.306
D4Wsu53e	152	0	2.533455	187	3.116667	143.172	7.296495	Stalled	chr4:134477539-134483285	3.747
Tnfrsf25	152	0	2.533455	5	0.083333	0.231861	1.782497	Unclassified	chr4:151488451-151494220	3.77
Slc39a1	152	0	2.533455	68	1.133333	21.6974	15.14258	Stalled	chr3:90050113-90057534	5.422
Dnpep	152	0	2.533455	99	1.65	24.1314	11.06329	Stalled	chr1:75305139-75315592	8.454
Cdca7	152	0	2.533455	352	5.866667	17.0791	8.424723	Stalled	chr2:72312275-72324947	10.673
Rnps1	152	0	2.533455	535	8.916667	35.6395	8.17584	Stalled	chr17:24549619-24562842	11.224
Dgkq	152	0	2.533455	177	2.95	4.94316	7.445946	Stalled	chr5:109076062-109091788	13.727
Dhodh	152	0	2.533455	168	2.8	6.38466	24.19961	Stalled	chr8:112117147-112134573	15.427
2610002I17Rik	152	0	2.533455	186	3.1	6.62901	25.69095	Stalled	chr9:110205695-110224606	16.912
Paip2	152	0	2.533455	360	6	39.856	13.22632	Stalled	chr18:35756320-35776839	18.52
Astl	152	0	2.533455	104	1.733333	0.086269	36.31914	Stalled	chr2:127162374-127183387	19.014
Snx5	152	0	2.533455	1480	24.66667	39.6201	8.723661	Stalled	chr2:144075861-144098267	20.407
Plxnb2	152	0	2.533455	478	7.966667	17.0144	4.392176	Stalled	chr15:88985978-89013218	25.241
mmu-mir-193b	152	0	2.533455	63	1.05	ND	ND	Unclassified	chr16:13432140-13463160	31.021
Thrap3	152	0	2.533455	1282	21.36667	43.9407	13.00276	Stalled	chr4:125841326-125881954	38.629
Kdm5a	152	0	2.533455	637	10.61667	5.75651	63.45053	Stalled	chr6:120312116-120394592	80.477
C8g	151	0	2.516787	0	0	1.46897	233	Unclassified	chr2:25354175-25358026	1.852
Ccdc115	151	0	2.516787	33	0.55	20.5589	20.19995	Stalled	chr1:34493515-34498517	3.003
Cdca3	151	44	2.516787	46	0.766667	43.1525	13.0706	Stalled	chr6:124778193-124783719	3.527
Cdk4	151	0	2.516787	158	2.633333	95.1985	3.754178	Stalled	chr10:126498658-126504338	3.681
H2-M3	151	0	2.516787	108	1.8	34.5875	5.058461	Stalled	chr17:37405178-37411430	4.253
Yif1a	151	0	2.516787	99	0.983333	19.0053	7.320279	Stalled	chr19:5086552-5092856	4.305
Smcr7	151	0	2.516787	54	1.566667	5.46196	4.4458	Stalled	chr11:60539899-60546453	4.555
Slc27a3	151	0	2.516787	33	0.55	1.5842	2.719424	Stalled	chr3:90189154-90195849	4.696
Ntn3	151	0	2.516787	112	1.866667	0	0.194907	Stalled	chr17:24340790-24348332	5.543
Imp4	151	0	2.516787	234	3.9	24.2895	6.074837	Stalled	chr1:34494673-34502592	5.92
Isg20	151	0	2.516787	197	3.283333	56.7877	4.058658	Stalled	chr7:86056650-86065282	6.633

Oxa1l	151	0	2.516787	290	4.833333	17.5787	4.995131	Stalled	chr14:54978524-54989353	8.83
Mon1b	151	0	2.516787	211	3.516667	12.5943	11.50723	Stalled	chr8:116157485-116169079	9.595
Slc5a6	151	0	2.516787	64	1.066667	3.36517	21.94536	Stalled	chr5:31338408-31352375	11.968
Ecd4	151	0	2.516787	220	3.666667	14.5184	10.27181	Stalled	chr8:108402850-108417107	12.258
Cbl1l	151	0	2.516787	99	1.65	5.04908	35.14693	Stalled	chr12:32171763-32186405	12.643
Cc2d1b	151	0	2.516787	300	5	20.4815	15.30537	Stalled	chr4:108290560-108306727	14.168
Ppil3	151	0	2.516787	113	1.883333	19.3107	24.43065	Stalled	chr1:58487836-58504330	14.495
Gaa	151	0	2.516787	263	4.383333	12.2719	3.589065	Stalled	chr11:119127280-119147012	17.733
Patz1	151	0	2.516787	605	10.08333	22.472	6.527896	Stalled	chr11:3188459-3208520	18.062
Glis2	151	0	2.516787	196	3.266667	0.672866	1.123498	Stalled	chr16:4592712-4615957	21.246
Extl2	151	0	2.516787	98	1.633333	6.37402	31.7463	Stalled	chr3:115708366-115731934	21.569
Lss	151	0	2.516787	480	8	38.0089	9.819052	Stalled	chr10:75992371-76016679	22.309
Dnaja3	151	0	2.516787	205	3.416667	11.2412	32.29982	Stalled	chr16:4682069-4707690	23.622
Asrgl1	151	0	2.516787	224	3.733333	14.9137	18.32741	Stalled	chr19:9186208-9212056	23.849
Aasdh	151	0	2.516787	185	3.083333	2.37537	72.92643	Stalled	chr5:77304961-77336539	29.579
Tbc1d24	151	0	2.516787	117	1.95	2.0289	17.14444	Stalled	chr17:24312376-24344507	30.132
Hnrnpc	151	0	2.516787	1087	18.11667	102.304	11.0459	Stalled	chr14:52693054-52725703	30.65
Per2	151	0	2.516787	296	4.933333	1.60488	12.51611	Stalled	chr1:93312558-93357905	43.348
Tmem229b	151	0	2.516787	1042	17.36667	10.8088	3.561971	Stalled	chr12:80062782-80110264	45.483
Ass1	151	0	2.516787	819	13.65	11.066	9.500363	Stalled	chr2:31323789-31376190	50.402
Ganc	151	0	2.516787	111	1.85	6.47723	97.19702	Stalled	chr2:120227631-120286588	56.958
Slc30a7	151	0	2.516787	761	12.68333	11.0638	14.78829	Stalled	chr3:115648862-115712297	61.436
Akap12	151	0	2.516787	276	4.6	3.54691	11.5134	Stalled	chr10:5987070-6082212	93.143
Pkib	151	0	2.516787	930	15.5	8.01168	22.68829	Stalled	chr10:57349886-57460918	109.033
Casz1	151	0	2.516787	990	16.5	4.03116	0.524798	Stalled	chr4:148176500-148329001	150.502
Ppm1l	151	0	2.516787	961	16.01667	5.30187	31.10971	Stalled	chr3:69118839-69359318	238.48
Fam96b	150	0	2.50012	27	0.45	59.7952	8.178122	Unclassified	chr8:107163738-107167628	1.891
1110020P15Rik	150	0	2.50012	33	0.55	198.412	10.26145	Stalled	chr11:4601970-4606347	2.378
Fth1	150	0	2.50012	131	2.183333	583.345	5.694662	Stalled	chr19:10055192-10059582	2.391
Mrpl41	150	0	2.50012	76	1.266667	13.9012	10.81347	Stalled	chr2:24827989-24832618	2.63
Thap7	150	0	2.50012	81	1.35	15.5014	13.59351	Stalled	chr16:17528074-17533145	3.072
Mrpl28	150	0	2.50012	39	0.65	47.4482	9.633425	Stalled	chr17:26258476-26263558	3.083
Cfl1	150	0	2.50012	429	7.15	449.307	2.580521	Stalled	chr19:5488454-5494031	3.578
Ankle1	150	0	2.50012	83	1.383333	10.5505	7.681934	Stalled	chr8:73927910-73933803	3.894
Fbxl14	150	0	2.50012	149	2.483333	17.2048	5.309552	Stalled	chr6:119427685-119433904	4.22
Gmpr2	150	0	2.50012	113	1.883333	12.3081	10.33595	Stalled	chr14:56289071-56297588	6.518
Fzd5	150	0	2.50012	43	0.716667	2.34094	13.09461	Stalled	chr1:64777131-64786324	7.194
Pex6	150	0	2.50012	222	3.7	13.2986	13.85452	Stalled	chr17:46846411-46862490	14.08
Aasdhppt	150	0	2.50012	44	0.733333	7.74563	63.40573	Stalled	chr9:4294792-4311494	14.703
Spty2d1	150	0	2.50012	251	4.183333	6.47702	18.47828	Stalled	chr7:54245766-54265784	18.019
Uhrf1	150	0	2.50012	1711	28.51667	50.9653	4.051245	Stalled	chr17:56440759-56462909	20.151
Kbtbd3	150	0	2.50012	45	0.75	0.681107	98.0561	Stalled	chr9:4307815-4331732	21.918
Arhgap1	150	0	2.50012	371	6.183333	8.58126	12.4876	Stalled	chr2:91488274-91512475	22.202
Ckap2l	150	0	2.50012	230	3.833333	9.77458	21.16481	Stalled	chr2:129093946-129124948	29.003
Hadhb	150	0	2.50012	260	4.333333	5.21417	39.41444	Stalled	chr5:30479861-30511123	29.263
Dcun1d2	150	0	2.50012	192	3.2	7.10935	25.97491	Stalled	chr8:13255962-13290126	32.165
Metap2	150	0	2.50012	763	12.71667	22.1397	0.119719	Stalled	chr10:93321234-93355947	32.714
Zfp341	150	0	2.50012	182	3.033333	1.8283	49.48206	Stalled	chr2:154437103-154472553	33.451
Gabbp2	150	0	2.50012	979	16.31667	14.9757	18.48674	Stalled	chr3:94985689-95023864	36.176
Rufy1	150	0	2.50012	561	9.35	7.12822	25.49735	Stalled	chr11:50202804-50246613	41.81
Flt4	150	0	2.50012	69	1.15	0.119637	1.136143	Unclassified	chr11:49421180-49466239	43.06
Tbc1d2	150	0	2.50012	484	8.066667	1.94693	16.60888	Stalled	chr4:46617261-46665071	45.811
Tle3	150	0	2.50012	1092	18.2	11.4811	4.842201	Stalled	chr9:61218172-61266304	46.133
Dapp1	150	0	2.50012	1132	18.86667	15.3448	12.03459	Stalled	chr3:137593969-137646513	50.545
Hmg20a	150	0	2.50012	264	4.4	6.15581	51.07945	Stalled	chr9:56264652-56344743	78.092
Wnt5b	150	0	2.50012	916	15.26667	0.216218	0.107924	Stalled	chr6:119382548-119496365	111.818
Gna14	150	0	2.50012	241	4.016667	1.65903	2.936438	Unclassified	chr19:16508156-16685308	175.153
Mrpl51	149	0	2.483452	11	0.183333	28.0941	34.17304	Stalled	chr6:125140217-125144410	2.194
Snapc5	149	0	2.483452	55	0.916667	21.5266	23.55766	Stalled	chr9:64025103-64030495	3.393
Tas1f3	149	0	2.483452	151	2.516667	0.529279	8.008857	Elongating	chr4:155233378-155239462	4.085
Tmem167b	149	0	2.483452	51	0.85	4.55092	14.21755	Stalled	chr3:108359342-108367384	6.043
Zfp526	149	0	2.483452	214	3.566667	5.10007	4.061446	Stalled	chr7:26004469-26012523	6.055
Rassf1	149	0	2.483452	129	2.15	15.2581	18.65771	Stalled	chr9:107454986-107464591	7.606
Tcp1l	149	0	2.483452	279	4.65	110.206	12.01872	Stalled	chr17:13107330-13117933	8.604
Bak1	149	0	2.483452	293	4.883333	41.6879	4.495	Stalled	chr17:27156756-27167571	8.816
Obfc2a	149	107	2.483452	583	9.716667	18.6382	11.50299	Stalled	chr1:51526331-51537243	8.913
Dut	149	0	2.483452	397	6.616667	31.1269	6.278303	Stalled	chr2:125070983-125084785	11.803
Atrip	149	0	2.483452	626	10.43333	8.8004	5.879062	Stalled	chr9:108962262-108978638	14.377
Fus	149	0	2.483452	695	11.58333	203.768	12.66346	Stalled	chr7:135108992-135125545	14.554
Gstt1	149	0	2.483452	24	0.4	5.67143	4.010881	Unclassified	chr10:75246557-75263329	14.773
Fam76b	149	0	2.483452	234	3.9	6.10703	23.39506	Stalled	chr9:13630170-13650966	18.797
Ncoa4	149	0	2.483452	296	4.933333	4.19904	18.44521	Stalled	chr14:32971077-32992549	19.473
Ccdc49	149	0	2.483452	279	4.65	9.22533	15.08389	Stalled	chr11:97606784-97629927	21.144
Hsf1	149	0	2.483452	334	5.566667	17.075	30.71025	Stalled	chr15:76305874-76331402	23.529
Aldh2	149	0	2.483452	207	3.45	49.7011	14.18637	Stalled	chr5:122017695-122045833	26.139
Ss181l	149	0	2.483452	219	3.65	2.40309	32.83889	Stalled	chr2:179775187-179804905	27.719
Papln	149	0	2.483452	260	4.333333	3.5581	2.988893	Stalled	chr12:85102590-85133332	28.743
Csde1	149	0	2.483452	766	12.76667	28.9189	21.0922	Stalled	chr3:102822468-102862111	37.644
Ky	149	0	2.483452	87	1.45	0.26552	1.550439	Unclassified	chr9:102406467-102448569	40.103
Snx2	149	0	2.483452	1186	19.76667	78.4031	13.23133	Stalled	chr18:53334018-53380514	44.497
Hdlbp	149	0	2.483452	1456	24.26667	42.8601	21.12066	Stalled	chr1:95302516-95377385	72.87
Apaf1	149	0	2.483452	411	6.85	6.39764	41.86239	Stalled	chr10:90452055-90547488	93.434
Cuedc1	149	0	2.483452	325	5.416667	0.978182	4.65704	Stalled	chr11:87910810-88006420	93.611
Rfx4	149	0	2.483452	315	5.25	0.107345	0.32184	Unclassified	chr10:84216792-84369283	150.492
Mrpl34	148	0	2.466785	0	0	46.851	76	Unclassified	chr8:73986824-73989652	0.829
Romo1	148	0	2.466785	37	0.616667	172.098	4.35935	Unclassified	chr2:155968079-155971529	1.451

Leng9	148	0	2.466785	112	1.866667	14.7691	0.944299	Elongating	chr7:4099784-4103474	1.691
Trappc1	148	0	2.466785	17	0.283333	22.5485	14.44562	Unclassified	chr11:69135487-69139295	1.809
Fos	148	0	2.466785	29	0.483333	2.39358	16.01658	Stalled	chr12:86812850-86818219	3.37
Rps14	148	0	2.466785	392	6.533333	831.7	2.622606	Stalled	chr18:60932249-60938199	3.951
Chchd5	148	0	2.466785	49	0.816667	7.66889	11.71472	Stalled	chr2:128953435-128959845	4.411
Sfrs1	148	0	2.466785	231	3.85	44.9905	11.89631	Stalled	chr11:87859172-87867259	6.088
1810063B07Rik	148	0	2.466785	91	1.516667	2.48989	23.99342	Stalled	chr14:20894858-20904394	7.537
Ankrd39	148	0	2.466785	73	1.216667	5.30206	12.98198	Stalled	chr1:36595017-36606046	9.03
BC048644	148	0	2.466785	64	1.066667	2.71014	44.98777	Stalled	chr8:124429732-124442328	10.597
9130401M01Rik	148	0	2.466785	179	2.983333	16.4598	14.73549	Stalled	chr15:57853826-57867849	12.024
1110007C09Rik	148	0	2.466785	99	1.65	5.49777	19.57075	Stalled	chr13:49298319-49313395	13.077
Scd1	148	0	2.466785	751	12.51667	79.9137	4.770616	Stalled	chr19:44468940-44484199	13.26
Mrps25	148	0	2.466785	240	4	5.56269	3.195714	Stalled	chr6:92119516-92136017	14.502
Elf4g2	148	0	2.466785	852	14.2	41.0652	11.56463	Stalled	chr7:118211498-118228544	15.047
Tmbim6	148	0	2.466785	544	9.066667	97.1439	7.964249	Stalled	chr15:99221377-99240480	17.104
Nfs1	148	0	2.466785	168	2.8	12.7075	37.63196	Stalled	chr2:155949372-155971922	20.551
Irs2	148	71	2.466785	447	7.45	9.48837	9.54509	Stalled	chr8:10986963-11010430	21.468
Hspa14	148	0	2.466785	399	6.65	31.4186	21.11388	Stalled	chr2:3406125-3432086	23.962
Polr	148	0	2.466785	418	6.966667	4.32884	4.161844	Stalled	chr13:69636837-69674742	35.906
Dph5	148	58	2.466785	327	5.45	14.2681	48.87339	Stalled	chr3:115589100-115632241	41.142
Tmem87a	148	0	2.466785	497	8.283333	6.54902	28.25669	Stalled	chr2:120181044-120231852	48.809
Itga4	148	85	2.466785	667	11.11667	6.06692	18.56177	Stalled	chr2:79093582-79173271	77.69
Asxl2	148	0	2.466785	728	12.13333	4.70347	47.46042	Stalled	chr12:3424883-3506849	79.967
Stat4	148	0	2.466785	1081	18.01667	12.5519	10.71683	Stalled	chr1:52063087-52164028	98.942
Dock4	148	0	2.466785	418	6.966667	0.451268	34.69384	Stalled	chr12:41170639-41573075	400.437
2310016E02Rik	147	0	2.450117	1	0.016667	115.791	56.53897	Unclassified	chr5:31208890-31212095	1.206
Rpl8	147	0	2.450117	173	2.883333	1421.8	3.218389	Stalled	chr15:76732500-76736748	2.249
Mpv17l2	147	0	2.450117	48	0.8	21.7321	5.041807	Stalled	chr8:73282547-73286820	2.274
Zfp688	147	0	2.450117	34	0.566667	16.6835	14.91015	Stalled	chr7:134562477-134567536	3.06
Iqcc	147	0	2.450117	42	0.7	5.59991	14.48536	Stalled	chr4:129292860-129298337	3.478
Zfp1	147	0	2.450117	63	1.05	12.6899	12.87404	Stalled	chr19:6080762-6086891	4.13
Prmt6	147	0	2.450117	88	1.466667	21.7184	6.981543	Stalled	chr3:110049029-110055916	4.888
Ptgs2	147	0	2.450117	51	0.85	10.7724	13.48435	Stalled	chr2:32249409-32258260	6.852
Magmas	147	0	2.450117	146	2.433333	13.9776	11.40712	Stalled	chr16:4616465-4626946	8.482
Hap1	147	0	2.450117	15	0.25	1.1297	4.453366	Unclassified	chr11:100208640-100219455	8.816
Prmt1	147	0	2.450117	792	13.2	91.445	3.053002	Stalled	chr7:52232127-52243702	9.576
Bcl9l	147	0	2.450117	631	10.51667	25.597	0.288493	Stalled	chr9:44305218-44318495	11.278
Gbp3	147	0	2.450117	195	3.25	32.3967	2.054769	Elongating	chr3:142221015-142236176	13.162
Pwp2	147	0	2.450117	442	7.366667	8.15344	5.409939	Stalled	chr10:77633654-77649894	14.241
Tmem43	147	0	2.450117	122	2.033333	7.07696	24.14321	Stalled	chr6:91421744-91438452	14.709
1700021F05Rik	147	0	2.450117	119	1.983333	8.58902	18.66667	Stalled	chr10:43244926-43262800	15.875
Extl1	147	0	2.450117	94	1.566667	2.3048	3.197113	Stalled	chr4:133912287-133930462	16.176
Arhgap11a	147	0	2.450117	321	5.35	30.6154	14.81902	Stalled	chr2:113671649-113690818	17.17
Agbl5	147	48	2.450117	522	8.7	3.81859	3.869937	Stalled	chr5:31189224-31209039	17.816
Zfp78	147	0	2.450117	40	0.666667	0.725257	26.99688	Stalled	chr7:6314014-6335315	19.302
Ighmbp2	147	0	2.450117	527	8.783333	4.35475	9.384001	Stalled	chr19:3259075-3285010	23.936
Tcf3	147	0	2.450117	1117	18.61667	72.5091	3.624968	Stalled	chr10:79871909-79898398	24.49
Dnaic2	147	0	2.450117	168	2.8	0.544616	0.895582	Unclassified	chr11:114586725-114619200	30.476
Zfp143	147	0	2.450117	429	7.15	4.61453	38.30773	Stalled	chr7:117203215-117238906	33.692
Tmem116	147	0	2.450117	182	3.033333	1.20648	97.89027	Stalled	chr5:121900717-121945429	42.713
Acsl3	147	0	2.450117	472	7.866667	13.1391	27.89098	Stalled	chr1:78652399-78704317	49.919
Sin3a	147	0	2.450117	570	9.5	9.639	20.52918	Stalled	chr9:56922182-56976175	51.994
St7	147	0	2.450117	4433	73.88333	11.7428	7.877697	Stalled	chr6:17697215-17893022	193.808
Cirbp	146	0	2.43345	147	2.45	12.0703	9.955144	Stalled	chr10:79628585-79634398	3.814
Sic16a13	146	0	2.43345	30	0.5	4.89146	19.39537	Stalled	chr11:70030293-70036496	4.204
Nat9	146	0	2.43345	55	0.916667	9.71276	11.14595	Stalled	chr11:115044145-115050630	4.486
Mcm7	146	0	2.43345	569	9.483333	53.2126	4.66855	Stalled	chr5:138605816-138615090	7.275
Ssh3	146	0	2.43345	65	1.083333	6.6509	2.820547	Stalled	chr19:4261667-4271172	7.506
Tcam1	146	0	2.43345	21	0.35	0.480881	8.651797	Stalled	chr11:106135985-106149457	11.473
Trim39	146	0	2.43345	167	2.783333	7.22226	42.02315	Stalled	chr17:36395817-36410378	12.562
Plekhg2	146	0	2.43345	223	3.716667	11.5035	9.389007	Stalled	chr7:29144622-29159681	13.06
Surf4	146	0	2.43345	678	11.3	0	5.473091	Stalled	chr2:26775560-26791031	13.472
Nqo1	146	0	2.43345	48	0.8	0.718441	15.79071	Stalled	chr8:109912124-109929105	14.982
Mboat7	146	0	2.43345	170	2.833333	12.7187	28.16158	Stalled	chr7:3629390-3647127	15.738
Narf	146	0	2.43345	96	1.6	6.55542	29.93299	Stalled	chr11:121096549-121117170	18.622
Naaa	146	0	2.43345	74	1.233333	6.27026	48.01268	Stalled	chr5:92686685-92709207	20.523
Brap	146	0	2.43345	264	4.4	9.95559	16.39027	Stalled	chr5:122108594-122137256	26.663
Fgr	146	0	2.43345	313	5.216667	1.39187	3.311284	Stalled	chr4:132528009-132557797	27.789
Dgat2	146	0	2.43345	82	1.366667	1.4457	44.86199	Stalled	chr7:106302172-106333223	29.052
2310061C15Rik	146	0	2.43345	155	2.583333	7.5642	66.14039	Stalled	chr8:119412584-119447336	32.753
Wdr89	146	0	2.43345	300	5	170.552	56.36404	Stalled	chr12:76731581-76772524	38.944
Dusp10	146	0	2.43345	1194	19.9	22.793	10.31952	Stalled	chr1:185856339-185899515	41.177
Map3k9	146	0	2.43345	211	3.516667	1.86339	16.89739	Stalled	chr12:82829400-82883994	52.595
Fyco1	146	68	2.43345	521	8.683333	2.94914	38.6879	Stalled	chr9:123698627-123763020	62.394
Xrn2	146	0	2.43345	765	12.75	18.2977	36.7927	Stalled	chr2:146836795-146903733	64.939
Nuak1	146	0	2.43345	144	2.4	0.776225	16.70488	Stalled	chr10:83834063-83905216	69.154
Zpbp	146	0	2.43345	154	2.566667	2.45727	155.8444	Stalled	chr11:11182515-11364411	179.897
Mthfd1l	146	0	2.43345	2439	40.65	20.2802	20.3516	Stalled	chr10:6190410-6375466	183.057
Trmt112	145	0	2.416782	16	0.266667	41.7191	8.191523	Unclassified	chr19:6982187-6985513	1.327
Sit1	145	0	2.416782	10	0.166667	9.35473	2.124024	Unclassified	chr4:43494955-43498581	1.627
Prdx5	145	0	2.416782	27	0.45	104.409	24.28625	Stalled	chr19:6981308-6986135	2.828
Hddc3	145	0	2.416782	11	0.183333	4.09617	15.43928	Stalled	chr7:87486022-87490983	2.962
0910001L09Rik	145	0	2.416782	122	2.033333	34.8428	5.178827	Stalled	chr5:138694709-138700622	3.914
Rps3a	145	0	2.416782	288	4.8	115.824	4.781887	Stalled	chr3:85941861-85948590	4.73
Gstm1	145	0	2.416782	15	0.25	5.31057	11.73575	Stalled	chr3:107815168-107822891	5.724
Klhl17	145	0	2.416782	62	1.033333	0	5.548979	Stalled	chr4:155603152-155610966	5.815

Slc7a6os	145	0	2.416782	189	3.15	26.2607	22.76944	Stalled	chr8:108724339-108736833	10.495
Tmem219	145	0	2.416782	92	1.533333	10.2539	20.17706	Stalled	chr7:134029732-134043792	12.061
Med16	145	0	2.416782	362	6.033333	9.88806	5.607308	Stalled	chr10:79357451-79373683	14.233
Cherp	145	0	2.416782	832	13.86667	31.9188	7.999962	Stalled	chr8:74984381-75001132	14.752
Krr1	145	0	2.416782	485	8.083333	5.45229	3.568231	Stalled	chr10:111407750-111425486	15.737
Lztr1	145	0	2.416782	258	4.3	13.1095	16.9358	Stalled	chr16:17507063-17526423	17.361
Atp8b3	145	0	2.416782	48	0.8	0.197496	13.93201	Stalled	chr10:79982329-80003869	19.541
Casp9	145	0	2.416782	221	3.683333	5.96798	18.68826	Stalled	chr4:141347526-141371890	22.365
Zfp385c	145	0	2.416782	371	6.183333	0.088443	0.059509	Stalled	chr11:100487533-100514007	24.475
Ccdc45	145	0	2.416782	338	5.633333	2.73996	30.82554	Stalled	chr11:106648565-106680174	29.61
Ankrd13a	145	0	2.416782	519	8.65	31.9732	10.17022	Stalled	chr5:115223148-115255829	30.682
Gpsm1	145	0	2.416782	305	5.083333	2.81425	4.61291	Stalled	chr2:26169059-26203755	32.697
Gpd1l	145	0	2.416782	231	3.85	9.50116	22.5048	Stalled	chr9:114808457-114845105	34.649
Pold3	145	0	2.416782	629	10.48333	12.1578	18.40678	Stalled	chr7:107230622-107272010	39.389
Yme1l1	145	0	2.416782	359	5.983333	11.6226	27.52531	Stalled	chr2:23010065-23054156	42.092
Crispld2	145	0	2.416782	108	1.8	0.138886	1.772748	Unclassified	chr8:122514369-122576693	60.325
Atf7	145	0	2.416782	461	7.683333	2.03364	66.0607	Stalled	chr15:102367074-102457852	88.779
Myh11	145	0	2.416782	180	3	0.242135	0	Unclassified	chr16:14194619-14293501	96.883
Glg1	145	0	2.416782	557	9.283333	14.4967	52.49264	Stalled	chr8:113681457-113785102	101.646
Pkrkc	145	0	2.416782	498	8.3	2.81594	101.7781	Stalled	chr16:15635958-15842332	204.375
D17H6S53E	144	0	2.400115	0	0	6.13127	40	Unclassified	chr17:35262059-35264941	0.883
Timm13	144	0	2.400115	29	0.483333	69.0093	5.329833	Unclassified	chr10:80362194-80365714	1.521
Tctex1d4	144	0	2.400115	66	1.1	0.340752	1.661695	Unclassified	chr4:116797417-116801335	1.919
Mrps12	144	0	2.400115	12	0.2	33.8318	22.33252	Stalled	chr7:29524659-29528800	2.142
2410015M20Rik	144	0	2.400115	78	1.3	58.9296	3.080962	Stalled	chr17:56746874-56751194	2.321
Amh	144	0	2.400115	82	1.366667	1.39303	2.387041	Stalled	chr10:80265992-80270393	2.402
Rpl27	144	0	2.400115	262	4.366667	75.1576	2.875016	Stalled	chr11:101301558-101306910	3.353
Ankrd57	144	0	2.400115	94	1.566667	10.2296	18.5894	Stalled	chr10:58682669-58689181	4.513
Mrpl18	144	0	2.400115	56	0.933333	65.337	24.84157	Stalled	chr17:13104220-13110957	4.738
Tarbp2	144	0	2.400115	252	4.2	17.5209	6.619517	Stalled	chr15:102346676-102354107	5.432
Atxn7l2	144	0	2.400115	135	2.25	7.49002	5.221838	Stalled	chr3:108005172-108015852	6.861
Fam165b	144	0	2.400115	58	0.966667	11.3026	14.99913	Stalled	chr16:92299547-92313286	11.74
Sars2	144	0	2.400115	201	3.35	15.3881	14.00017	Stalled	chr7:29525009-29538873	11.865
Vars2	144	0	2.400115	135	2.25	8.13856	26.5042	Stalled	chr17:35792579-35806537	11.959
Abcf2	144	0	2.400115	259	4.316667	29.1651	10.28099	Stalled	chr5:24071162-24085177	12.016
Ccdc151	144	0	2.400115	27	0.45	0.641529	43.39985	Stalled	chr9:21794314-21809078	12.765
Man2b1	144	0	2.400115	209	3.483333	19.2075	9.713969	Stalled	chr8:87605167-87622638	15.472
Mfap5	144	0	2.400115	293	4.883333	0.89987	0.095009	Stalled	chr6:122461693-122479305	15.613
Pomt1	144	0	2.400115	295	4.916667	2.59918	12.09203	Stalled	chr2:32090202-32110525	18.324
Cep57	144	0	2.400115	291	4.85	8.35524	20.18282	Stalled	chr9:13612231-13633537	19.307
Ppp2r1a	144	0	2.400115	448	7.466667	48.4813	12.19316	Stalled	chr17:21080417-21102869	20.453
Ctsh	144	0	2.400115	670	11.16667	66.972	5.035407	Stalled	chr9:89947104-89970933	21.83
Cenpo	144	0	2.400115	249	4.15	8.30643	32.36121	Stalled	chr12:4211671-4236294	22.624
Setd1a	144	0	2.400115	716	11.93333	15.1501	8.837356	Stalled	chr7:134918902-134943633	22.732
Ywhag	144	0	2.400115	1536	25.6	56.2471	7.281792	Stalled	chr5:136384248-136412511	26.264
Acad9	144	0	2.400115	349	5.816667	6.29363	14.90039	Stalled	chr3:35962921-35991779	26.859
Eno4	144	0	2.400115	28	0.466667	2.09625	119.2864	Stalled	chr19:59015914-59045911	27.998
Ecd	144	0	2.400115	347	5.783333	17.0587	16.02633	Stalled	chr14:21139080-21169343	28.264
Psen2	144	0	2.400115	354	5.9	16.0612	16.50664	Stalled	chr1:182157134-182188431	29.298
Pik3cg	144	63	2.400115	380	6.333333	4.47166	2.397835	Elongating	chr12:32858263-32895514	35.252
Slc39a14	144	0	2.400115	406	6.766667	3.40748	10.26349	Stalled	chr14:70703273-70753231	47.959
Nsun3	144	0	2.400115	304	5.066667	2.56491	49.88184	Stalled	chr16:62734677-62788542	51.866
Nrxn2	144	0	2.400115	233	3.883333	0.381772	1.236086	Unclassified	chr19:6426015-6533217	105.203
Cenpp	144	0	2.400115	432	7.2	5.22732	33.01166	Stalled	chr13:49559427-49750100	188.674
Rpl10a	143	0	2.383448	438	7.3	326.523	1.996078	Stalled	chr17:28463415-28467978	2.564
Hps6	143	0	2.383448	29	0.483333	10.999	8.181777	Stalled	chr19:46075967-46080663	2.697
O610010K14Rik	143	0	2.383448	23	0.383333	26.2231	24.88587	Stalled	chr11:70048709-70053416	2.708
Sfrs2	143	0	2.383448	236	3.933333	173.953	7.570057	Stalled	chr11:116711210-116716408	3.199
S1pr1	143	0	2.383448	123	2.05	6.72768	3.10789	Stalled	chr3:115413356-115419965	4.61
Lynx1	143	0	2.383448	129	2.15	8.22568	1.890141	Elongating	chr15:74578285-74585409	5.125
Hdac10	143	0	2.383448	58	0.966667	13.9507	9.585692	Stalled	chr15:88953733-88961130	5.398
Gtf2f1	143	0	2.383448	173	2.883333	64.1107	14.43552	Stalled	chr17:57142824-57152711	7.888
Pigo	143	0	2.383448	132	2.2	8.50035	11.97585	Stalled	chr4:43030509-43040628	8.12
Uchl1	143	0	2.383448	97	1.616667	15.2839	11.70947	Stalled	chr5:67065359-67078473	11.115
Fam33a	143	0	2.383448	179	2.983333	7.35096	9.484104	Stalled	chr11:86920762-86936476	13.715
Rdh11	143	0	2.383448	232	3.866667	21.8841	4.322805	Stalled	chr12:80276537-80294806	16.27
Nol8	143	0	2.383448	129	2.15	5.4224	15.7312	Stalled	chr13:49746718-49774384	25.667
P4ha2	143	0	2.383448	64	1.066667	0.590744	2.221078	Unclassified	chr11:53912425-53945169	30.745
Pdgfrb	143	0	2.383448	97	1.616667	0.279424	0.572679	Unclassified	chr18:61202803-61244721	39.919
Cbx5	143	0	2.383448	551	9.183333	6.00662	37.05767	Stalled	chr15:103021976-103072247	48.272
Ptpn22	143	0	2.383448	503	8.383333	7.11679	7.175008	Stalled	chr3:103662214-103716170	51.957
Itg3	143	0	2.383448	711	11.85	12.3717	6.923415	Stalled	chr11:104467313-104531785	62.473
Rab3b	143	0	2.383448	78	1.3	0.544201	4.478111	Unclassified	chr4:108549674-108615929	64.256
Spen	143	0	2.383448	1333	22.21667	9.59758	10.53555	Stalled	chr4:141023804-141096512	70.709
Vpreb3	142	0	2.36678	13	0.216667	32.7593	1.108578	Unclassified	chr10:75409056-75412391	1.336
Cdk5r1	142	0	2.36678	107	1.783333	10.1352	4.355155	Stalled	chr11:80288547-80294681	4.135
Coq10a	142	0	2.36678	299	4.983333	6.27155	0.194857	Stalled	chr10:127800152-127809093	6.942
Rh	142	0	2.36678	16	0.266667	0.021883	0	Unclassified	chr7:150078680-150087871	7.192
Tp17l1	142	0	2.36678	562	9.366667	27.6005	4.217298	Stalled	chr17:46910855-46921605	8.751
Slc2a8	142	0	2.36678	45	0.75	2.81765	5.929846	Stalled	chr2:32828508-32839576	9.069
Sox10	142	0	2.36678	54	0.9	0.070887	0.822462	Unclassified	chr15:78985343-78996920	9.578
Mbd1	142	0	2.36678	484	8.066667	19.9349	4.767703	Stalled	chr18:74425941-74442338	14.398
Trim35	142	0	2.36678	564	9.4	26.6651	9.446134	Stalled	chr14:66913861-66930261	14.401
Slc4a9	142	0	2.36678	42	0.7	0.073982	0.807094	Unclassified	chr18:36685805-36704262	16.458
Dnajb11	142	0	2.36678	495	8.25	50.4245	10.8326	Stalled	chr16:22855938-22879707	21.77
Bcl6	142	0	2.36678	577	9.616667	6.89975	5.757513	Stalled	chr16:23965137-23990698	23.562

2010002M12Rik	142	0	2.36678	43	0.716667	1.00446	30.05416	Stalled	chr19:34691540-34717233	23.694
Etfdh	142	0	2.36678	104	1.733333	10.7301	31.85449	Stalled	chr3:79407709-79434689	24.981
Pak6	142	0	2.36678	85	1.416667	0.526652	3.670618	Unclassified	chr2:118487312-118523754	34.443
Rilpl1	142	0	2.36678	274	4.566667	3.58336	4.554561	Stalled	chr5:124943088-124983400	38.313
Ankmy2	142	0	2.36678	198	3.3	8.34222	46.07748	Stalled	chr12:36881710-36923878	40.169
Asap3	142	0	2.36678	88	1.466667	0.78734	9.246915	Stalled	chr4:135760279-135802488	40.21
Ret	142	0	2.36678	51	0.85	0.253687	2.343695	Unclassified	chr6:118101765-118149762	45.998
Sned1	142	0	2.36678	144	2.4	0.177527	4.388513	Unclassified	chr1:95130473-95193025	60.553
Mthfd1	142	0	2.36678	777	12.95	23.1658	15.5081	Stalled	chr12:77354218-77420807	64.59
Arl6ip4	141	0	2.350113	98	1.633333	89.3849	2.439807	Stalled	chr5:124564116-124568204	2.089
Atp6v1g2	141	0	2.350113	10	0.166667	1.31228	8.81876	Stalled	chr17:35371540-35375712	2.173
Taba1b	141	0	2.350113	41	0.683333	0	28.71137	Stalled	chr15:98761861-98766821	2.961
Lcn8	141	0	2.350113	9	0.15	0	0.189189	Unclassified	chr2:25506637-25511736	3.1
Gm129	141	0	2.350113	33	0.55	2.09299	6.864941	Stalled	chr3:95682427-95688151	3.725
Nip7	141	0	2.350113	115	1.916667	11.5023	10.07946	Stalled	chr8:109578776-109584826	4.051
Gcc1	141	0	2.350113	51	0.85	7.20587	8.676378	Stalled	chr6:28366602-28373724	5.123
Pnpo	141	0	2.350113	51	0.85	13.8153	15.28022	Stalled	chr11:96799129-96807333	6.205
Taco1	141	0	2.350113	57	0.95	16.214	24.89806	Stalled	chr11:105925420-105934926	7.507
E2f4	141	0	2.350113	283	4.716667	56.5131	5.141014	Stalled	chr8:107819562-107829270	7.709
B9d1	141	0	2.350113	23	0.383333	3.00363	7.947542	Stalled	chr11:61316673-61326429	7.757
Mcat	141	0	2.350113	130	2.166667	9.36813	13.71794	Stalled	chr15:83377226-83388141	8.916
Ssrp1	141	0	2.350113	489	8.15	83.017	5.047446	Stalled	chr2:84875357-84887268	9.912
B4galnt4	141	0	2.350113	29	0.483333	0.280565	1.013926	Unclassified	chr7:148245172-148258018	10.847
Psma1	141	0	2.350113	111	1.85	40.4143	17.82081	Stalled	chr7:121408063-121421630	11.568
Cdnf	141	0	2.350113	21	0.35	1.81998	142.302	Stalled	chr2:3428336-3443648	13.313
Ramp3	141	0	2.350113	38	0.633333	0.39331	0.320749	Unclassified	chr11:6556535-6577478	18.944
Tmprss9	141	0	2.350113	308	5.133333	0.085353	0.171544	Stalled	chr10:80340560-80362239	19.68
Alkbh5	141	0	2.350113	236	3.933333	19.0299	29.9987	Stalled	chr11:60349184-60372014	20.831
Trf	141	0	2.350113	35	0.583333	0.296776	0	Unclassified	chr9:103111205-103134616	21.412
Eed	141	0	2.350113	448	7.466667	33.6489	28.99834	Stalled	chr7:97103163-97131486	26.324
Kcnh2	141	0	2.350113	78	1.3	0.420359	0.853546	Unclassified	chr5:23825406-23859422	32.017
Ints10	141	0	2.350113	182	3.033333	9.21413	16.59786	Stalled	chr8:71315852-71351543	33.692
Gpbp11	141	38	2.350113	247	4.116667	12.6044	39.12466	Stalled	chr4:116228331-116266487	36.157
Gltd2	141	0	2.350113	201	3.35	0.077386	0.326527	Unclassified	chr10:82113177-82155395	40.219
Prmt7	141	0	2.350113	622	10.36667	13.6561	28.39951	Stalled	chr8:108732953-108775594	40.642
Psen1	141	0	2.350113	751	12.51667	18.3457	22.68615	Stalled	chr12:85027512-85076149	46.638
Rbl2	141	0	2.350113	301	5.016667	6.57897	12.5262	Stalled	chr8:93591992-93647743	53.752
Ptch1	141	0	2.350113	1858	30.96667	10.4957	5.656629	Stalled	chr13:63612840-63668828	53.989
Trim2	141	0	2.350113	85	1.416667	0.592317	1.622461	Unclassified	chr3:83965795-84026799	59.005
Gak	141	0	2.350113	864	14.4	19.4419	25.38014	Stalled	chr5:108998432-109060758	60.327
Glb1	141	0	2.350113	1048	17.46667	14.6717	19.28636	Stalled	chr9:114308236-114383495	73.26
9030425E11Rik	141	0	2.350113	391	6.516667	0.765498	0.596725	Unclassified	chr9:40492046-40592129	98.084
Rnf216	141	0	2.350113	1332	22.2	10.5694	16.25149	Stalled	chr5:143752571-143876673	122.103
Macf1	141	0	2.350113	2807	46.78333	13.0644	0.106235	Stalled	chr4:123026958-123363603	334.646
Mrpl43	140	0	2.333445	5	0.083333	51.5468	26.29098	Unclassified	chr19:45079503-45082932	1.43
Ptger1	140	0	2.333445	166	2.766667	29.7516	1.141305	Elongating	chr8:86188538-86194002	3.465
9130023H24Rik	140	0	2.333445	63	1.05	1.95467	16.77186	Stalled	chr7:13537964-135383545	3.582
Gng8	140	0	2.333445	14	0.233333	4.47024	1.751306	Unclassified	chr7:17475134-17480784	3.651
Vamp2	140	0	2.333445	123	2.05	18.2636	4.763816	Stalled	chr11:68900029-68905883	3.855
Fitm2	140	0	2.333445	25	0.416667	4.24822	18.1375	Stalled	chr2:163294438-163300365	3.928
Ldhd	140	0	2.333445	35	0.583333	0.265284	4.252201	Stalled	chr8:114150170-114156222	4.053
Nab2	140	0	2.333445	170	2.833333	10.3442	3.204352	Stalled	chr10:127097973-127105759	5.787
Bhlhe40	140	0	2.333445	132	2.2	10.7425	8.064808	Stalled	chr6:108608622-108616919	6.298
Parp3	140	0	2.333445	58	0.966667	9.22662	2.009479	Elongating	chr9:106372683-106380982	6.3
Angpt4	140	0	2.333445	39	0.65	1.5764	14.35643	Stalled	chr17:33911845-33920520	6.676
Gemin4	140	0	2.333445	263	4.383333	5.76316	7.408824	Stalled	chr11:76024072-76033074	7.003
Pts	140	0	2.333445	86	1.433333	7.85382	14.66785	Stalled	chr9:50329721-50338746	7.026
Ddx51	140	0	2.333445	219	3.65	5.87194	8.302812	Stalled	chr5:111080469-111089515	7.047
Taf1c	140	0	2.333445	175	2.916667	7.97228	5.56716	Stalled	chr8:122121873-122131140	7.268
Ceacam16	140	0	2.333445	51	0.85	10.0312	0.692859	Unclassified	chr7:20437445-20448648	9.204
Cidec	140	0	2.333445	37	0.616667	0.075284	0.429575	Unclassified	chr6:113374629-113387749	11.121
Pcyox1	140	0	2.333445	48	0.8	3.80177	28.61665	Stalled	chr6:86335999-86349144	11.146
Smndc1	140	0	2.333445	299	4.983333	13.0852	16.84628	Stalled	chr19:53453703-53467063	11.361
Silp	140	0	2.333445	391	6.516667	34.5068	14.3145	Stalled	chr5:33982710-33996955	12.246
Vasp	140	0	2.333445	507	8.45	57.4838	7.458553	Stalled	chr7:19842278-19859203	14.926
4930451C15Rik	140	0	2.333445	63	1.05	0.098875	0.40069	Unclassified	chr16:17544557-17563340	16.784
Jmj5	140	0	2.333445	276	4.6	5.20065	18.02563	Stalled	chr7:132586189-132605773	17.585
Isy1	140	0	2.333445	258	4.3	39.763	31.3395	Stalled	chr6:87768441-87790753	20.313
Hmgcr	140	0	2.333445	1247	20.78333	44.4198	8.419546	Stalled	chr13:97418918-97442891	21.974
Ptpn23	140	0	2.333445	663	11.05	13.6215	7.685151	Stalled	chr9:110287592-110312714	23.123
Dcaf12	140	0	2.333445	247	4.116667	8.6247	18.44438	Stalled	chr4:41238332-41263934	23.603
Tdp1	140	0	2.333445	580	9.666667	13.1888	26.17739	Stalled	chr12:101120724-101193426	70.703
Arfp1	140	0	2.333445	316	5.266667	5.14294	23.65131	Stalled	chr3:84299985-84388547	86.563
Ttc39b	140	0	2.333445	807	13.45	1.50097	17.41426	Stalled	chr4:82866204-82972093	103.89
Cables1	140	0	2.333445	204	3.4	1.29908	2.383944	Unclassified	chr18:11995782-12104136	106.355
Znhit2	139	0	2.316778	66	1.1	30.9677	1.496325	Unclassified	chr19:6059206-6062468	1.263
Phpt1	139	0	2.316778	8	0.133333	38.267	11.98981	Unclassified	chr2:25428950-25432391	1.442
Pthr1	139	0	2.316778	4	0.066667	5.38415	11.99749	Unclassified	chr2:32629340-32633113	1.774
09-002_145561	139	0	2.316778	898	14.96667	ND	ND	Stalled	chr11:106360995-106362995	2.001
Rps27a	139	0	2.316778	106	1.766667	72.1121	4.432836	Stalled	chr11:29445841-29450040	2.2
Zfp830	139	0	2.316778	21	0.35	17.8924	36.90807	Stalled	chr11:82575846-82581124	3.279
2810408A11Rik	139	0	2.316778	16	0.266667	3.33785	26.11648	Stalled	chr11:69710859-69716488	3.63
Galk1	139	0	2.316778	153	2.55	69.9569	3.571308	Stalled	chr11:115869670-115876033	4.364
Avpi1	139	0	2.316778	123	2.05	8.69085	4.065142	Stalled	chr19:42197764-42205483	5.72
Tnfrsf14	139	0	2.316778	104	1.733333	9.77251	2.370344	Elongating	chr4:154296318-154304186	5.869
Guca1a	139	0	2.316778	27	0.45	3.08256	0	Unclassified	chr17:47531506-47539533	6.028

3110001I22Rik	139	0	2.316778	76	1.266667	0	21.63501	Stalled	chr16:13670112-13678478	6.367
1700088E04Rik	139	0	2.316778	93	1.55	2.52366	10.39001	Stalled	chr15:78965084-78973681	6.598
Pigm	139	0	2.316778	109	1.816667	5.10279	18.81691	Stalled	chr1:174304661-174314230	7.57
Prpf38b	139	0	2.316778	243	4.05	46.5604	18.44891	Stalled	chr3:108705724-108716622	8.899
Bcl10	139	0	2.316778	206	3.433333	18.2498	20.14268	Stalled	chr3:145585341-145597247	9.907
Adam15	139	0	2.316778	25	0.416667	2.77891	21.26778	Stalled	chr3:89143561-89155932	10.372
Mtap1s	139	0	2.316778	310	5.166667	14.5174	9.353057	Stalled	chr8:73427872-73441428	11.557
Rab33b	139	0	2.316778	97	1.616667	3.53189	54.03296	Stalled	chr3:51285887-51300134	12.248
Oasl1	139	49	2.316778	2976	49.6	31.2695	1.98486	Elongating	chr5:115371248-115387920	14.673
2610301G19Rik	139	0	2.316778	563	9.383333	21.1336	3.820905	Stalled	chr14:70537983-70555598	15.616
Stac2	139	0	2.316778	379	6.316667	15.8233	3.730929	Stalled	chr11:97897937-97916776	16.84
Zfp788	139	0	2.316778	95	1.583333	1.994	23.3785	Stalled	chr7:48886900-48906902	18.003
Plekhh1	139	0	2.316778	183	3.05	0.074658	0.349091	Stalled	chr7:107792411-107812908	18.498
Ap3m1	139	0	2.316778	152	2.533333	6.48024	40.05388	Stalled	chr14:21852964-21873664	18.701
Pigb	139	0	2.316778	113	1.883333	3.35062	38.90408	Stalled	chr9:72863502-72889506	24.005
G3bp1	139	0	2.316778	1438	23.96667	65.3598	8.026204	Stalled	chr11:55281253-55314389	31.137
Amn1	139	0	2.316778	193	3.216667	4.04228	42.67913	Stalled	chr6:149106098-149139234	31.137
Canx	139	0	2.316778	735	12.25	56.4012	25.79497	Stalled	chr11:50107458-50141175	31.718
Bfar	139	0	2.316778	380	6.333333	7.83487	23.20615	Stalled	chr16:13669958-13703705	31.748
Casc1	139	0	2.316778	661	11.01667	0.953353	13.11019	Stalled	chr6:145123391-145161490	36.1
Cars2	139	0	2.316778	514	8.566667	11.1298	19.44689	Stalled	chr8:11514016-11552771	36.756
Tmem44	139	0	2.316778	92	1.533333	0.596507	2.617267	Unclassified	chr16:30511940-30552664	38.725
Pdss1	139	0	2.316778	488	8.133333	3.97219	28.62527	Stalled	chr2:22749041-22795779	44.739
Cct6b	139	53	2.316778	95	1.583333	2.1791	120.3644	Stalled	chr11:82532750-82579790	45.041
Twist2	139	0	2.316778	71	1.183333	0.205139	1.17249	Unclassified	chr1:93696053-93744604	46.552
B3gnt1l	139	0	2.316778	539	8.983333	3.69212	30.56052	Stalled	chr11:121477522-121536465	56.944
Mettl8	139	0	2.316778	242	4.033333	6.01682	119.8629	Stalled	chr2:70802619-70895663	91.045
Rab30	139	0	2.316778	357	5.95	6.21787	26.35113	Stalled	chr7:99888223-99985627	95.405
Tsga10	139	0	2.316778	88	1.466667	0.116855	95.84027	Stalled	chr1:37811620-37923924	110.305
Fahd1	138	0	2.30011	2	0.033333	25.624	48.45847	Unclassified	chr17:24985840-24989247	1.408
Chkb	138	0	2.30011	45	0.75	0	21.00383	Stalled	chr15:89256797-89262330	3.534
Gpr44	138	0	2.30011	221	3.683333	0.193422	0.077265	Stalled	chr19:11009649-11017001	5.353
Mlst8	138	0	2.30011	329	5.483333	5.83435	3.366866	Stalled	chr17:24610496-24618023	5.528
Srpr	138	0	2.30011	179	2.983333	23.2771	12.98459	Stalled	chr9:35016787-35024588	5.802
Islr2	138	0	2.30011	25	0.416667	0.583369	0.831805	Unclassified	chr9:58044104-58052092	5.989
Rad9	138	0	2.30011	394	6.566667	13.9306	2.342	Elongating	chr19:4195197-4203603	6.407
Foxred1	138	0	2.30011	143	2.383333	13.1053	19.10876	Stalled	chr9:35011805-35020510	6.706
M6pr	138	0	2.30011	113	1.883333	56.723	10.67708	Stalled	chr6:122257027-122267695	8.669
Tmem80	138	0	2.30011	86	1.433333	4.90178	24.24482	Stalled	chr7:148512028-148523054	9.027
Ifit1	138	0	2.30011	65	1.083333	3.67359	9.774569	Stalled	chr19:34713378-34724499	9.122
Snrpa	138	0	2.30011	413	6.883333	50.5912	7.319802	Stalled	chr7:27972024-27983290	9.267
Npm1	138	0	2.30011	426	7.1	158.836	11.42009	Stalled	chr11:33052510-33065056	10.547
St6galnac4	138	0	2.30011	1127	18.78333	16.4625	3.356963	Stalled	chr2:32441009-32455994	12.986
Hagh	138	0	2.30011	71	1.183333	8.85086	36.73749	Stalled	chr17:24985434-25001393	13.96
Mtch1	138	0	2.30011	583	9.716667	66.4174	5.755081	Stalled	chr17:29469020-29486849	15.83
Zfp790	138	0	2.30011	180	3	4.76668	8.98449	Stalled	chr7:30599090-30617061	15.972
Cod9	138	0	2.30011	157	2.616667	14.8969	46.22101	Stalled	chr8:97360316-97378795	16.48
Tmem175	138	0	2.30011	154	2.566667	4.58954	38.69386	Stalled	chr5:109056828-109076789	17.962
Ciapin1	138	0	2.30011	327	5.45	6.21189	25.53254	Stalled	chr8:97343718-97364240	18.523
Onecut3	138	0	2.30011	53	0.883333	0.162381	0.574426	Unclassified	chr10:79955650-79980005	22.356
Apobec1	138	0	2.30011	1393	23.21667	24.889	3.055568	Stalled	chr6:122527809-122554462	24.654
Dlg4	138	0	2.30011	77	1.283333	0.730157	3.778564	Unclassified	chr11:69830106-69859033	26.928
Tmem206	138	0	2.30011	594	9.9	2.90988	13.06555	Stalled	chr1:193147843-193176804	26.962
Eif3a	138	0	2.30011	830	13.83333	73.8594	20.37127	Stalled	chr19:60837018-60868596	29.579
Gm6498	138	0	2.30011	27	0.45	0.3727	0.515252	Unclassified	chr14:48816390-48848088	29.699
Chdh	138	0	2.30011	61	1.016667	0.05399	0.6662	Unclassified	chr14:30820185-30853652	31.468
Sp97	138	0	2.30011	407	6.783333	13.7496	32.79604	Stalled	chr8:125587407-125621651	32.245
Galns	138	0	2.30011	992	16.53333	14.3385	10.65909	Stalled	chr8:125102136-125137241	33.106
Dgcr8	138	0	2.30011	1024	17.06667	8.99756	13.67288	Stalled	chr16:18254057-18291261	35.205
Hadha	138	0	2.30011	372	6.2	21.4798	32.64315	Stalled	chr5:30444843-30483520	36.678
Dnmt1	138	0	2.30011	2158	35.96667	51.6089	7.847646	Stalled	chr9:20711652-20759317	45.666
Mbtps1	138	0	2.30011	1157	19.28333	13.6089	12.08763	Stalled	chr8:122032053-122084661	50.609
Pank1	138	0	2.30011	392	6.533333	3.81362	13.81948	Stalled	chr19:34885383-34955945	68.563
Unc5b	138	0	2.30011	145	2.416667	0.248909	1.276842	Unclassified	chr10:60225342-60296329	68.988
Peli2	138	0	2.30011	146	2.433333	0.117151	0.487748	Unclassified	chr14:48738543-48880558	140.016
Ncor1	138	0	2.30011	1265	21.08333	14.6793	47.4214	Stalled	chr11:62130191-62272834	140.644
Ston2	138	0	2.30011	252	4.2	0.143696	0	Unclassified	chr12:92871449-93026876	153.428
Ppdpf	137	0	2.283443	1	0.016667	34.867	18.64058	Unclassified	chr2:180920047-180923209	1.163
B3galt4	137	0	2.283443	70	1.166667	6.94658	6.969282	Unclassified	chr17:34086856-34090433	1.578
Plekhl1	137	0	2.283443	132	2.2	48.0318	7.752121	Stalled	chr10:80258843-80263371	2.529
Bloc1s1	137	0	2.283443	36	0.6	39.4757	10.82358	Stalled	chr10:128356969-128362580	3.612
Fis1	137	0	2.283443	117	1.95	96.1271	3.91482	Stalled	chr5:137435946-137442102	4.157
Tymp	137	0	2.283443	651	10.85	0	0.050166	Stalled	chr15:89202361-89209468	5.108
H1foo	137	0	2.283443	34	0.566667	0.172572	0.673073	Unclassified	chr6:115892956-115900251	5.296
Ar12	137	0	2.283443	48	0.8	15.07	25.13953	Stalled	chr19:6134388-6143137	6.75
Cnbp	137	0	2.283443	489	8.15	99.4287	9.221123	Stalled	chr6:87792608-87803100	8.493
Osgin1	137	0	2.283443	177	2.95	1.99935	5.554912	Stalled	chr8:121959061-121970156	9.096
Lzic	137	0	2.283443	176	2.933333	20.7164	9.318908	Stalled	chr4:148857441-148870776	11.336
Ndufs2	137	0	2.283443	172	2.866667	71.1441	11.17699	Stalled	chr1:173164990-173179243	12.254
Tut1	137	0	2.283443	288	4.8	19.1824	9.868053	Stalled	chr19:9026339-9040700	12.362
Dtx3l	137	0	2.283443	187	3.116667	8.12091	13.57222	Stalled	chr16:35926600-35941113	12.514
Prdx1	137	0	2.283443	402	6.7	59.1461	18.13296	Stalled	chr4:116356203-116372605	14.403
Cnot8	137	43	2.283443	281	4.683333	15.9124	15.79687	Stalled	chr11:57915654-57932096	14.443
Nmnat1	137	0	2.283443	91	1.516667	4.28517	23.68013	Stalled	chr4:148842895-148861251	16.357
Clk4	137	0	2.283443	316	5.266667	12.5642	22.73249	Stalled	chr11:51074672-51095266	18.595
Lman2	137	0	2.283443	1159	19.31667	44.8492	3.797987	Stalled	chr13:55445193-55466144	18.952

Pisma6	137	0	2.283443	242	4.033333	77.0472	22.95215	Stalled	chr12:56497811-56519446	19.636
Cenpn	137	0	2.283443	294	4.9	5.62406	23.33888	Stalled	chr8:119443639-119465403	19.765
Gprc5c	137	0	2.283443	30	0.5	0.474459	1.203127	Unclassified	chr11:114710845-114733931	21.087
Atic	137	0	2.283443	484	8.066667	41.7844	15.39268	Stalled	chr1:71601729-71625977	22.249
Fh1	137	0	2.283443	262	4.366667	42.062	21.9307	Stalled	chr1:177531511-177557766	24.256
Ccdc69	137	0	2.283443	223	3.716667	5.80679	15.86403	Stalled	chr11:54863239-54893633	28.395
Lactb2	137	0	2.283443	520	8.666667	8.93674	23.67846	Stalled	chr1:13615979-13652590	34.612
Lrsam1	137	0	2.283443	150	2.5	1.15029	32.94408	Stalled	chr2:32780739-32818771	36.033
Tanf2	137	0	2.283443	143	2.383333	0.21935	0.654187	Unclassified	chr2:143856837-143899715	40.879
Tbccd1	137	0	2.283443	238	3.966667	4.99915	36.2127	Stalled	chr16:22813287-22859642	44.356
Ttll9	137	0	2.283443	291	4.85	1.088	2.00889	Stalled	chr2:152786220-152834218	45.999
Col16a1	137	0	2.283443	94	1.566667	0.034472	0	Unclassified	chr4:129723083-129776520	51.438
Mrpl1	137	0	2.283443	557	9.283333	2.39714	26.22812	Stalled	chr5:96637133-96695728	56.596
Xdh	137	0	2.283443	170	2.833333	2.34103	14.14966	Stalled	chr17:74233247-74301522	66.276
Rfx7	137	0	2.283443	895	14.91667	7.5504	47.82954	Stalled	chr9:72378046-72470756	90.711
Epb4.1	137	0	2.283443	778	12.96667	10.5491	16.24403	Stalled	chr4:131479340-131633228	151.889
Klf10	136	0	2.266775	86	1.433333	13.2992	10.38363	Stalled	chr15:38224167-38232462	6.296
216002J02Rik	136	0	2.266775	58	0.966667	1.30633	26.70808	Stalled	chr4:154622104-154630792	6.689
Hnrnpab	136	0	2.266775	810	13.5	229.983	4.536893	Stalled	chr11:51413601-51422383	6.783
Slc29a2	136	0	2.266775	72	1.2	4.3939	26.38324	Stalled	chr19:5022005-5031972	7.968
A430105I19Rik	136	0	2.266775	30	0.5	0.048917	1.001919	Unclassified	chr2:118579880-118590397	8.518
Sp6	136	0	2.266775	51	0.85	1.62108	0	Unclassified	chr11:96872882-96886052	11.171
Josd1	136	0	2.266775	369	6.15	11.601	10.71782	Stalled	chr15:79504679-79520302	13.624
Grpel2	136	0	2.266775	317	5.283333	5.54725	13.30385	Stalled	chr18:61872077-61887985	13.909
Rbck1	136	0	2.266775	555	9.25	51.7861	9.420815	Stalled	chr2:152142069-152160375	16.307
Camta2	136	0	2.266775	500	8.333333	8.68581	5.705509	Stalled	chr11:70482967-70503436	18.47
Muc6	136	0	2.266775	160	2.666667	0.178448	0.112393	Stalled	chr7:148819948-148843207	21.26
Cap1	136	0	2.266775	589	9.816667	63.9152	17.6138	Stalled	chr4:122536470-122565124	26.655
Nadk	136	0	2.266775	333	5.55	22.48	20.63249	Stalled	chr4:154935923-154965109	27.187
Stt3a	136	0	2.266775	414	6.9	34.5042	24.09096	Stalled	chr9:36539997-36577163	35.167
Wdct1	136	0	2.266775	155	2.583333	9.29231	9.587913	Stalled	chr4:132848380-132897230	46.851
Cnot1	136	0	2.266775	1637	27.28333	18.1134	16.05054	Stalled	chr8:98243350-98333366	88.017
Apbb1ip	136	0	2.266775	973	16.21667	16.5079	25.05097	Stalled	chr2:22627846-22731173	101.328
9030409G11Rik	136	0	2.266775	218	3.633333	0.186614	1.536814	Unclassified	chr4:141658304-141797316	137.013
Alcam	136	58	2.266775	624	10.4	4.94292	27.24698	Stalled	chr16:52249108-52455110	204.003
Hist2h4	135	49	2.250108	0	0	18.1664	642	Unclassified	chr3:96066892-96069240	0.349
Sfn	135	0	2.250108	7	0.116667	19.8005	6.693197	Unclassified	chr4:133156470-133160083	1.614
Upk2	135	0	2.250108	2	0.033333	0.07332	2.760969	Unclassified	chr9:44260797-44264850	2.054
BC051628	135	0	2.250108	21	0.35	0.148487	4.50462	Stalled	chr2:180952720-180957556	2.837
Rpl34	135	0	2.250108	259	4.316667	223.27	4.304231	Stalled	chr3:130429748-130435226	3.479
1110008J03Rik	135	0	2.250108	20	0.333333	8.34482	9.025591	Stalled	chr5:121059071-121064578	3.508
Cst3	135	0	2.250108	19	0.316667	58.9551	11.46186	Stalled	chr2:148697467-148703204	3.738
Idh3b	135	0	2.250108	1099	18.31667	55.669	0.93677	Elongating	chr2:130105047-130112163	5.117
Syt8	135	0	2.250108	13	0.216667	0	1.015439	Unclassified	chr7:149618881-149626303	5.423
Myg1	135	0	2.250108	170	2.833333	30.0648	5.974902	Stalled	chr15:102160139-102168569	6.431
AI314976	135	0	2.250108	108	1.8	10.6125	21.78492	Stalled	chr17:48547404-48556591	7.188
Ppp1r15b	135	0	2.250108	352	5.866667	24.9524	8.429334	Stalled	chr1:135025742-135036377	8.636
Mrpl47	135	0	2.250108	184	3.066667	11.1684	11.27037	Stalled	chr3:32626460-32637697	9.238
Cox18	135	0	2.250108	265	4.416667	8.66405	16.10186	Stalled	chr5:90643751-90665021	9.271
Glrx	135	0	2.250108	117	1.95	17.6337	9.320796	Stalled	chr13:75975333-75987599	10.267
Exoc1	135	0	2.250108	318	5.3	20.5179	13.11973	Stalled	chr19:41997469-42009804	10.336
Rab4b	135	0	2.250108	204	3.4	37.1877	8.634916	Stalled	chr7:27953451-27965902	10.452
Zdhhc16	135	0	2.250108	232	3.866667	15.8725	16.10596	Stalled	chr19:42005961-42018593	10.633
Tmed5	135	0	2.250108	127	2.116667	10.6748	24.76586	Stalled	chr5:108550665-108563610	10.946
Rnf207	135	0	2.250108	54	0.9	0.186357	1.148969	Unclassified	chr4:151681131-151694734	11.604
Wrb	135	0	2.250108	67	1.116667	2.6307	19.68158	Stalled	chr16:96365025-96379459	12.435
Ndufb5	135	0	2.250108	209	3.483333	37.9315	16.62241	Stalled	chr3:32633984-32650481	14.498
Ehmt2	135	0	2.250108	444	7.4	47.5753	6.123978	Stalled	chr17:35033443-35050992	15.55
Susd3	135	0	2.250108	363	6.05	13.7549	5.123501	Stalled	chr13:49326201-49345532	17.332
Atad3a	135	0	2.250108	595	9.916667	24.2509	7.537105	Stalled	chr4:155114749-155137207	20.459
Kbtbd11	135	0	2.250108	92	1.533333	3.10142	1.12828	Unclassified	chr8:15009024-15033330	22.307
Gart	135	0	2.250108	670	11.16667	28.4644	16.77208	Stalled	chr16:91621641-91649217	25.577
Lhfp14	135	0	2.250108	48	0.8	0.215174	1.769808	Unclassified	chr6:113118080-113147378	27.299
Nupl1	135	0	2.250108	228	3.8	64.0986	60.88988	Stalled	chr14:60838304-60872215	31.912
Gpr155	135	0	2.250108	129	2.15	2.73116	38.4107	Stalled	chr2:73188948-73226455	35.508
Kcnk3	135	0	2.250108	99	1.65	0.924969	0	Unclassified	chr5:30888542-30927643	37.102
Cand1	135	0	2.250108	542	9.033333	11.026	33.79987	Stalled	chr10:118635867-118679111	41.245
Cul4a	135	0	2.250108	406	6.766667	8.03451	29.58638	Stalled	chr8:13103720-13147939	42.22
Gm5820	135	0	2.250108	108	1.8	0.017613	0	Unclassified	chr18:39050111-39130926	78.816
Pax7	135	0	2.250108	139	2.316667	0.098933	0	Unclassified	chr4:139239995-139390883	94.889
Igf1r	135	0	2.250108	436	7.266667	0.369561	3.914116	Unclassified	chr7:75095142-75378553	281.412
Endog	134	0	2.23344	58	0.966667	13.4708	6.390952	Stalled	chr2:30025043-30029589	2.547
Psmg3	134	0	2.23344	71	1.183333	29.5827	7.344459	Stalled	chr5:140299547-140304797	3.251
Vps28	134	0	2.23344	86	1.433333	69.6462	4.993097	Stalled	chr15:76452517-76458457	3.941
Gnat1	134	0	2.23344	21	0.35	1.00402	0.492038	Unclassified	chr9:107576804-107583923	5.12
H2-DMB2	134	0	2.23344	406	6.766667	206.245	3.009109	Stalled	chr17:34280360-34288040	5.681
Trmt61a	134	0	2.23344	291	4.85	23.7805	4.201978	Stalled	chr12:112914315-112922113	5.799
Rin1	134	0	2.23344	32	0.533333	0.27301	5.792701	Stalled	chr19:5048807-5057071	6.265
Mterfd3	134	0	2.23344	52	0.866667	2.24161	8.384206	Stalled	chr10:84582180-84592746	8.567
Homer3	134	0	2.23344	244	4.066667	4.1967	1.425935	Elongating	chr8:72804897-72818259	11.363
Oas1b	134	0	2.23344	308	5.133333	10.842	5.32089	Stalled	chr5:121260643-121274169	11.527
Arfgap2	134	0	2.23344	420	7	22.6679	7.413827	Stalled	chr2:91103271-91117528	12.258
Abcf3	134	0	2.23344	156	2.6	11.5126	22.50348	Stalled	chr16:20546675-20561676	13.002
Acot13	134	0	2.23344	87	1.45	22.6943	52.39286	Stalled	chr13:24909823-24925358	13.536
Stx5a	134	0	2.23344	200	3.333333	28.2837	16.16764	Stalled	chr19:8814292-8830131	13.84
Hars	134	0	2.23344	248	4.133333	43.6619	20.0959	Stalled	chr18:36926183-36944859	16.677

4632434I11Rik	134	0	2.23344	55	0.916667	1.70781	44.65056	Stalled	chr7:100006036-100024742	16.707
Sh3bp5l	134	0	2.23344	154	2.566667	6.96922	11.67786	Stalled	chr11:58142219-58161229	17.011
Rab3il1	134	0	2.23344	41	0.683333	0.187825	2.281729	Unclassified	chr19:10090717-10110076	17.36
Ap3m2	134	0	2.23344	77	1.283333	3.72562	22.56735	Stalled	chr8:23897825-23918126	18.302
Nudt9	134	0	2.23344	94	1.566667	22.6893	39.43654	Stalled	chr5:104474029-104494386	18.358
Fam174a	134	0	2.23344	57	0.95	9.57845	43.36004	Stalled	chr1:97208204-97231861	21.658
Slc33a1	134	0	2.23344	192	3.2	13.8361	22.06093	Stalled	chr3:63746257-63770655	22.399
Rwdd1	134	0	2.23344	141	2.35	24.776	49.927	Stalled	chr10:33716360-33741422	23.063
Smpd4	134	0	2.23344	408	6.8	7.04169	3.791868	Stalled	chr16:17617446-17644921	25.476
Wdr45l	134	0	2.23344	474	7.9	8.68952	23.39992	Stalled	chr11:121188516-121217761	27.246
Usp20	134	0	2.23344	237	3.95	2.3974	0.805646	Stalled	chr2:30849563-30879102	27.54
Sgsm3	134	0	2.23344	316	5.266667	4.64638	5.65919	Stalled	chr15:80806194-80842719	34.526
Cttn	134	0	2.23344	92	1.533333	0.332925	2.699514	Unclassified	chr7:151621628-151658646	35.019
Polr3g	134	0	2.23344	328	5.466667	3.84432	26.92155	Stalled	chr13:81812835-81852012	37.178
Arfgap3	134	0	2.23344	492	8.2	8.91763	9.965635	Stalled	chr15:83130169-83182677	50.509
Pigl	134	0	2.23344	189	3.15	5.73804	81.62655	Stalled	chr11:62269961-62327402	55.442
Pfkip	134	0	2.23344	1115	18.58333	28.127	10.26799	Stalled	chr13:6579119-6649970	68.852
Spsb4	134	0	2.23344	95	1.583333	0.200973	1.749815	Unclassified	chr9:96843900-96920774	74.875
Abli1	134	0	2.23344	1754	29.23333	36.2825	8.526565	Stalled	chr19:57107753-57195499	85.747
Tanc1	134	0	2.23344	724	12.06667	1.23525	13.1519	Stalled	chr2:59448100-59684206	234.107
Gm11808	133	0	2.216773	164	2.733333	0	3.466563	Stalled	chr8:73032173-73036260	2.088
Uba52	133	0	2.216773	168	2.8	147.576	3.430915	Stalled	chr8:73032164-73036266	2.103
Lta	133	0	2.216773	99	1.65	9.36546	2.428808	Stalled	chr17:35340110-35344296	2.187
Rce1	133	0	2.216773	46	0.766667	14.5858	15.05783	Stalled	chr19:4622550-4627617	3.068
Lmf2	133	0	2.216773	88	1.466667	15.0978	9.495903	Stalled	chr15:89181434-89188090	4.657
Dpagt1	133	0	2.216773	86	1.433333	14.2805	9.348529	Stalled	chr9:44132927-44114683	6.757
Mis12	133	0	2.216773	112	1.866667	13.968	27.41574	Stalled	chr11:70831112-70840636	7.525
9930104L06Rik	133	0	2.216773	136	2.266667	10.2353	8.209901	Stalled	chr4:124612291-124621905	7.615
Rgl2	133	0	2.216773	144	2.4	10.3255	15.72635	Stalled	chr17:34064838-34074632	7.795
Ifi35	133	0	2.216773	161	2.683333	35.0889	9.60248	Stalled	chr11:101307725-101320015	10.291
Derl2	133	0	2.216773	139	2.316667	7.59764	27.58804	Stalled	chr11:70820946-70834765	11.82
Arpc4	133	0	2.216773	566	9.433333	129.939	6.754445	Stalled	chr6:113326106-113340441	12.336
Mtg1	133	0	2.216773	106	1.766667	6.93358	39.29084	Stalled	chr7:147321462-147336685	13.224
Centb1	133	0	2.216773	277	4.616667	38.3814	3.131936	Stalled	chr11:69695068-69711041	13.974
Htra4	133	0	2.216773	61	1.016667	1.42746	25.70717	Stalled	chr8:26135399-26151434	14.036
Cc2d1a	133	0	2.216773	180	3	7.95899	8.258804	Stalled	chr8:86656726-86673652	14.927
Lrrc59	133	0	2.216773	901	15.01667	74.219	4.78021	Stalled	chr11:94489137-94506530	15.394
Slc35a5	133	0	2.216773	78	1.3	2.18822	52.74146	Stalled	chr16:45139685-45160786	19.102
Mthfr	133	0	2.216773	359	5.983333	3.86592	12.20232	Stalled	chr4:147411185-147433671	20.487
Alg8	133	0	2.216773	345	5.75	6.83214	28.35947	Stalled	chr7:104518126-104540668	20.543
Ccdc135	133	0	2.216773	42	0.7	0.013577	0	Unclassified	chr8:97577002-97602041	23.04
Nudt5	133	0	2.216773	244	4.066667	21.3145	23.58048	Stalled	chr2:5764079-5789782	23.704
4930432K21Rik	133	0	2.216773	45	0.75	0.837581	41.23802	Stalled	chr8:86669936-86696496	24.561
Smg5	133	0	2.216773	914	15.23333	21.9633	18.24017	Stalled	chr3:88138181-88166259	26.079
Ttc38	133	0	2.216773	152	2.533333	2.49908	19.83867	Stalled	chr15:85660733-85689252	26.52
Prepl	133	0	2.216773	82	1.366667	4.30929	22.96911	Stalled	chr17:85462818-85491607	26.79
1110031I02Rik	133	0	2.216773	128	2.133333	30.4619	30.27583	Stalled	chr11:121038906-121067962	27.057
Sart3	133	0	2.216773	1032	17.2	28.7049	5.240859	Stalled	chr5:114192454-114223658	29.205
Atg3	133	0	2.216773	140	2.333333	12.6766	45.43768	Stalled	chr16:45156941-45188651	29.711
Dclre1c	133	54	2.216773	502	8.366667	5.75302	11.70639	Stalled	chr2:3339402-3378389	36.988
Rpa1	133	0	2.216773	786	13.1	36.0556	16.74332	Stalled	chr11:75113760-75163885	48.126
Cdc123	133	0	2.216773	434	7.233333	36.5257	26.90485	Stalled	chr2:5715339-5768006	50.668
Atp6v1a	133	0	2.216773	238	3.966667	12.7017	32.9516	Stalled	chr16:44085516-44141132	53.617
Prpc	133	0	2.216773	122	2.033333	4.59017	97.68569	Stalled	chr7:100021762-100083091	59.333
Scarb2	133	0	2.216773	273	4.55	6.64387	19.83698	Stalled	chr5:92872898-92936634	61.737
Wdr51a	133	0	2.216773	482	8.033333	10.5766	19.86234	Stalled	chr9:106181391-106252222	68.832
Abi1	133	0	2.216773	760	12.66667	9.70558	25.17194	Stalled	chr2:31542075-31659747	115.673
Lclat1	133	0	2.216773	538	8.966667	2.10926	25.58081	Stalled	chr17:73455333-73592706	135.374
Grk5	133	0	2.216773	485	8.083333	5.10589	47.60122	Stalled	chr19:60963651-61168458	202.808
Syne2	133	0	2.216773	501	8.35	0.693609	9.933642	Stalled	chr12:76917304-77211915	292.612
1700106N22Rik	133	0	2.216773	485	8.083333	3.13431	35.31513	Stalled	chr17:85488039-85857920	367.882
Prelid1	132	0	2.200105	89	1.483333	180.521	5.984214	Stalled	chr13:55421415-55426633	3.219
Nit1	132	0	2.200105	86	1.433333	8.7439	7.201846	Stalled	chr1:173272374-173277757	3.384
Ccdc17	132	0	2.200105	331	5.516667	0	0.852245	Elongating	chr4:116267334-116272871	3.538
BC003266	132	0	2.200105	51	0.85	15.7211	11.70976	Stalled	chr4:126919027-126925053	4.027
Selk	132	0	2.200105	104	1.733333	26.8678	14.64294	Stalled	chr14:30779565-30788260	6.696
Aes	132	0	2.200105	193	3.216667	167.165	3.124865	Stalled	chr10:81020304-81029109	6.806
Cmtm3	132	0	2.200105	48	0.8	3.26687	10.56805	Stalled	chr8:106862493-106871572	7.08
Ppp2r5b	132	0	2.200105	18	0.3	3.17529	20.0329	Stalled	chr19:6227766-6237840	8.075
Mak16	132	0	2.200105	260	4.333333	20.2651	16.09993	Stalled	chr8:32269939-32281196	9.258
Thbs3	132	0	2.200105	88	1.466667	0.209509	2.159149	Elongating	chr3:89017108-89030757	11.65
Eif1a	132	0	2.200105	513	8.55	20.9749	6.942056	Stalled	chr18:46755357-46769879	12.523
Padi6	132	0	2.200105	92	1.533333	0.054935	0.941105	Unclassified	chr4:140283269-140300558	15.29
Mynn	132	0	2.200105	183	3.05	4.47127	7.999269	Stalled	chr3:30499008-30517416	16.409
Pxmp4	132	84	2.200105	133	2.216667	11.3668	14.82847	Stalled	chr2:154412779-154431409	16.631
Zfp715	132	0	2.200105	125	2.083333	1.95886	24.04505	Stalled	chr7:50551892-50570631	16.74
Tnnt2	132	0	2.200105	68	1.133333	0.672691	1.152898	Unclassified	chr7:149682740-149701913	17.174
Map2k3	132	0	2.200105	468	7.8	14.2635	9.636173	Stalled	chr11:60743558-60766305	20.748
Rpp30	132	0	2.200105	283	4.716667	15.0655	8.53791	Stalled	chr19:36156205-36179262	21.058
Mtap1a	132	0	2.200105	77	1.283333	0.536636	8.323837	Stalled	chr2:121113335-121136568	21.234
Tert	132	0	2.200105	57	0.95	1.15573	9.97609	Stalled	chr13:73762448-73786489	22.042
Scly	132	0	2.200105	267	4.45	10.2481	12.27479	Stalled	chr1:93192914-93217657	22.744
Cops4	132	0	2.200105	332	5.533333	24.1743	11.2239	Stalled	chr5:100945327-100976820	29.494
Wispl	132	0	2.200105	51	0.85	0.033177	1.129767	Unclassified	chr15:66720954-66754761	31.808
Emp2	132	0	2.200105	78	1.3	0.167552	1.429258	Unclassified	chr16:10281841-10316061	32.221
Rab6	132	0	2.200105	133	2.216667	9.17629	55.62795	Stalled	chr7:107754099-107789781	33.683

Gtf2ird2	132	0	2.200105	408	6.8	2.8529	22.21609	Stalled	chr5:134657907-134694013	34.107
Kif5a	132	0	2.200105	113	1.883333	0.367646	1.948441	Unclassified	chr10:126662754-126702136	37.383
Adar	132	0	2.200105	1797	29.95	21.7644	2.265099	Elongating	chr3:89516943-89557376	38.434
Sox13	132	0	2.200105	283	4.716667	0.275652	1.136802	Stalled	chr1:135278876-135322789	41.914
Dcaf8	132	0	2.200105	793	13.21667	23.3798	22.21343	Stalled	chr1:174076145-174126524	48.38
D030074E01Rik	132	0	2.200105	305	5.083333	3.64596	29.44935	Stalled	chr18:21004645-21056579	49.935
Kcnt1	132	0	2.200105	92	1.533333	0.101923	0.734708	Unclassified	chr2:25717373-25773793	54.421
Tpr	132	0	2.200105	398	6.633333	22.5148	24.95452	Stalled	chr1:152237967-152297064	57.098
Ep300	132	0	2.200105	715	11.91667	13.4221	27.19811	Stalled	chr15:81414643-81482507	65.865
Tank	132	95	2.200105	1099	18.31667	12.5398	6.482256	Stalled	chr2:61414642-61492224	75.583
Blm	132	0	2.200105	917	15.28333	7.80597	20.78282	Stalled	chr7:87599878-87681884	80.007
Ankfy1	132	0	2.200105	923	15.38333	5.59037	25.0514	Stalled	chr11:72501503-72585648	82.146
Afap1	132	0	2.200105	280	4.666667	0.306425	14.91014	Stalled	chr5:36233967-36346571	110.605
Zswim5	132	0	2.200105	93	1.55	0.311048	4.34766	Unclassified	chr4:116548006-116661710	111.705
Gm5567	132	0	2.200105	116	1.933333	0.012435	0.541687	Unclassified	chr6:40058251-40198352	138.102
Gsk3b	132	0	2.200105	1053	17.55	4.53051	47.63417	Stalled	chr16:38087086-38246165	157.08
Zfp827	132	0	2.200105	1057	17.61667	0.876164	12.91687	Stalled	chr8:81550335-81717665	165.331
Higd2a	131	0	2.183438	0	0	69.0867	242	Unclassified	chr13:54689591-54692508	0.918
Ch25h	131	0	2.183438	0	0	4.15993	4	Unclassified	chr19:34548273-34551625	1.353
Ssna1	131	0	2.183438	10	0.166667	39.7494	8.184472	Unclassified	chr2:25126558-25129938	1.381
1810009A15Rik	131	0	2.183438	12	0.2	53.9087	28.62232	Unclassified	chr19:8961392-8965230	1.839
Tmem179b	131	0	2.183438	106	1.766667	15.5939	5.366041	Unclassified	chr19:8847011-8850957	1.947
Hcst	131	0	2.183438	44	0.733333	7.38174	4.557517	Stalled	chr7:31202731-31206873	2.143
Pard6a	131	0	2.183438	44	0.733333	8.80507	6.511402	Stalled	chr8:108223053-108227394	2.342
Acd	131	0	2.183438	123	2.05	27.3131	3.474619	Stalled	chr8:108222058-108226995	2.938
Sdr39u1	131	0	2.183438	155	2.583333	26.3386	4.495333	Stalled	chr14:56516121-56521069	2.949
Trappc2l	131	0	2.183438	51	0.85	15.1909	16.76296	Stalled	chr8:125133525-125139490	3.966
Coasy	131	0	2.183438	67	1.116667	16.4491	12.2415	Stalled	chr11:100941938-100947933	3.996
Znrd1	131	0	2.183438	26	0.433333	30.1274	19.44304	Stalled	chr17:37091302-37097373	4.072
Mxra8	131	0	2.183438	66	1.1	1.90842	0.246601	Stalled	chr4:155211788-155218211	4.424
1700040I03Rik	131	0	2.183438	142	2.366667	9.53492	7.254723	Stalled	chr6:85396778-85403296	4.519
Arsa	131	0	2.183438	234	3.9	10.7572	0.148694	Stalled	chr15:89302926-89309856	4.931
Nop16	131	0	2.183438	114	1.9	27.2943	9.286369	Stalled	chr13:54685551-54693435	5.885
Exoc3l	131	0	2.183438	29	0.483333	1.33935	2.27177	Unclassified	chr8:107813823-107821998	6.176
1810043G02Rik	131	0	2.183438	77	1.283333	2.9165	7.553086	Stalled	chr10:77439394-77448183	6.79
1700022C21Rik	131	0	2.183438	34	0.566667	3.33752	26.37262	Stalled	chr17:37093536-37102568	7.033
Ticam1	131	47	2.183438	450	7.5	15.003	2.735867	Stalled	chr17:56408886-56418190	7.305
Klhf21	131	0	2.183438	166	2.766667	6.48337	10.26223	Stalled	chr4:151380999-151391786	8.788
BC049762	131	0	2.183438	21	0.35	2.56826	113.0468	Stalled	chr11:51067152-51078453	9.302
Bad	131	0	2.183438	313	5.216667	24.3648	6.231772	Stalled	chr19:7014344-7026383	10.04
Dpep2	131	0	2.183438	26	0.433333	0.079161	0.855257	Unclassified	chr8:108508956-108522323	11.368
Egfl7	131	0	2.183438	178	2.966667	13.5296	0.394371	Stalled	chr2:26434575-26448201	11.627
Anapc2	131	0	2.183438	156	2.6	19.8551	16.18731	Stalled	chr2:25125985-25141435	13.451
Stk11	131	0	2.183438	478	7.966667	59.9499	1.844477	Elongating	chr10:79577280-79593215	13.936
Pin1	131	0	2.183438	582	9.7	13.0719	5.446072	Stalled	chr9:20454573-20471028	14.456
Tmem11	131	0	2.183438	486	8.1	28.909	8.294328	Stalled	chr11:60677955-60694540	14.586
Rgs14	131	0	2.183438	160	2.666667	8.10794	7.541355	Stalled	chr13:55469092-55486047	14.956
Dhx38	131	0	2.183438	484	8.066667	21.2904	4.504272	Stalled	chr8:112071923-112091501	17.579
Otub2	131	0	2.183438	429	7.15	2.18353	1.381564	Elongating	chr12:104624914-104644553	17.64
4632415K11Rik	131	0	2.183438	91	1.516667	1.60287	21.85216	Stalled	chr8:122284486-122304316	17.831
Tpd52l2	131	0	2.183438	182	3.033333	13.5811	21.78197	Stalled	chr2:181229957-181251462	19.506
Wdr82	131	0	2.183438	588	9.8	16.4124	11.06465	Stalled	chr9:106071259-106094037	20.779
Ppp2r3c	131	0	2.183438	156	2.6	2.15662	21.52426	Stalled	chr12:56381800-56405987	22.188
Ubxn8	131	0	2.183438	262	4.366667	3.57775	26.34446	Stalled	chr8:34730057-34754448	22.392
Notch4	131	0	2.183438	365	6.083333	2.10883	0.179652	Stalled	chr17:34699239-34725488	24.25
Mecr	131	0	2.183438	368	6.133333	18.0952	13.46697	Stalled	chr4:131397385-131423702	24.318
Copg	131	0	2.183438	817	13.61667	32.3812	7.265068	Stalled	chr6:87835933-87863588	25.656
2010321M09Rik	131	0	2.183438	463	7.716667	10.9225	12.51678	Stalled	chr9:64806638-64834781	26.144
Lbr	131	0	2.183438	830	13.83333	32.333	13.07265	Stalled	chr1:183745446-183774532	27.087
Htra3	131	0	2.183438	66	1.1	0.064131	0.576835	Unclassified	chr5:35994681-36024431	27.751
Qtrtd1	131	0	2.183438	214	3.566667	4.25357	13.10899	Stalled	chr16:43861525-43891789	28.265
E330009J07Rik	131	63	2.183438	241	4.016667	6.17368	11.93392	Stalled	chr6:40357496-40388132	28.637
Haus6	131	0	2.183438	265	4.416667	6.87698	22.29878	Stalled	chr4:86227188-86259926	30.739
Aagab	131	0	2.183438	434	7.233333	8.58598	18.37973	Stalled	chr9:63448461-63489696	39.236
Stil	131	0	2.183438	331	5.516667	3.81186	24.70223	Stalled	chr4:114670722-114715803	43.082
Fubp3	131	0	2.183438	282	4.7	5.60552	16.40018	Stalled	chr2:31426244-31473039	44.796
Ifih1	131	0	2.183438	518	8.633333	7.5963	17.52052	Stalled	chr2:62433849-62486312	50.464
Prpf6	131	0	2.183438	327	5.45	20.9142	35.20325	Stalled	chr2:181334023-181390366	54.344
2210018M11Rik	131	0	2.183438	283	4.716667	4.3898	58.43704	Stalled	chr7:105739115-105807079	65.965
Ptpru	131	0	2.183438	113	1.883333	0.166168	3.785165	Unclassified	chr4:131324371-131396193	69.823
1110008L16Rik	131	0	2.183438	398	6.633333	8.06395	27.28547	Stalled	chr12:56401623-56483478	79.856
Sdk2	131	0	2.183438	369	6.15	0.050458	0.435057	Unclassified	chr11:113642103-113929265	285.163
Akap6	131	0	2.183438	497	8.283333	0.03122	0	Unclassified	chr12:53798369-54252002	451.634
Ccdc56	130	0	2.16677	0	0	49.4555	127	Unclassified	chr11:101139283-101142262	0.98
Dbil5	130	0	2.16677	1	0.016667	0.378917	16.85579	Unclassified	chr11:76029114-76032167	1.054
Gdf15	130	0	2.16677	136	2.266667	2.50619	0.190195	Stalled	chr8:73153292-73157534	2.243
Pcna	130	0	2.16677	130	2.166667	148.712	10.91753	Stalled	chr2:132075021-132080916	3.896
Evi2a	130	132	2.16677	315	5.25	0	0.958969	Elongating	chr11:79340062-79346111	4.05
Edf1	130	0	2.16677	85	1.416667	126.442	10.94022	Stalled	chr2:25411419-25417602	4.184
A130010J15Rik	130	0	2.16677	147	2.45	2.16562	7.964566	Stalled	chr1:194997662-195004025	4.364
Mtx1	130	0	2.16677	183	3.05	21.3415	3.476623	Stalled	chr3:89013003-89020257	5.255
Hnrpd1	130	0	2.16677	319	5.316667	38.3244	6.989495	Stalled	chr5:100462597-100470241	5.645
Rhot2	130	0	2.16677	136	2.266667	20.4023	7.290536	Stalled	chr17:25975782-25983796	6.015
B4gal3	130	0	2.16677	97	1.616667	8.3475	14.5511	Stalled	chr1:173198458-173207026	6.569
Cops7a	130	0	2.16677	153	2.55	23.8402	19.59796	Stalled	chr6:124908826-124917415	6.59
Ap4m1	130	0	2.16677	160	2.666667	7.76975	11.35485	Stalled	chr5:138611248-138619913	6.666

Exosc8	130	0	2.16677	174	2.9	34.9066	14.27392	Stalled	chr3:54532600-54541286	6.687
Zfp446	130	0	2.16677	49	0.816667	2.65837	16.84607	Stalled	chr7:13561196-13571065	7.87
Med21	130	0	2.16677	34	0.566667	7.11425	64.88353	Stalled	chr6:146589100-146599122	8.023
Pa2g4	130	0	2.16677	369	6.15	116.176	7.89106	Stalled	chr10:127994821-128004990	8.17
Zfp661	130	0	2.16677	20	0.333333	1.02042	19.10168	Stalled	chr2:127401268-127412413	9.146
Wdr77	130	0	2.16677	220	3.666667	10.0803	17.25403	Stalled	chr3:105760415-105772678	10.264
Taldo1	130	0	2.16677	118	1.966667	70.5597	12.22176	Stalled	chr7:148576109-148588867	10.759
Ercc1	130	0	2.16677	288	4.8	11.9992	5.14947	Stalled	chr7:19928419-19941873	11.455
Engase	130	0	2.16677	84	1.4	2.72135	14.39815	Stalled	chr11:118336273-118350512	12.24
Map4k2	130	0	2.16677	237	3.95	34.8892	3.089154	Stalled	chr19:6339249-6353527	12.279
Cercam	130	0	2.16677	83	1.383333	1.7512	10.87838	Stalled	chr2:29723013-29738360	13.348
Irgc1	130	0	2.16677	42	0.7	0.307984	20.27002	Stalled	chr7:25216944-25232701	13.758
Pla2g15	130	0	2.16677	69	1.15	8.0502	23.62093	Stalled	chr8:108672298-108688615	14.318
Evi2b	130	134	2.16677	796	13.26667	28.5447	1.975354	Elongating	chr11:79326886-79346091	17.206
Atp5f1	130	0	2.16677	410	6.833333	69.234	1.614153	Elongating	chr3:105745780-105765166	17.387
Zfp369	130	0	2.16677	81	1.35	2.89878	33.54916	Stalled	chr13:65378161-65399103	18.943
Asb1	130	0	2.16677	109	1.816667	2.75571	21.00338	Stalled	chr1:93435141-93456167	19.027
Usp42	130	0	2.16677	261	4.35	3.36646	20.58765	Stalled	chr5:144471194-144495149	21.956
Egln3	130	0	2.16677	62	1.033333	4.58926	8.067222	Stalled	chr12:55279968-55306861	24.894
Dhrs7b	130	0	2.16677	400	6.666667	9.64259	14.5192	Stalled	chr11:60642188-60671648	27.461
Sfrs18	130	0	2.16677	366	6.1	20.6315	9.347713	Stalled	chr4:21772729-21803622	28.894
Zfp282	130	0	2.16677	366	6.1	5.96746	11.56627	Stalled	chr6:47825553-47858483	30.931
Lig1	130	0	2.16677	795	13.25	42.2361	10.78153	Stalled	chr7:13862174-13896776	32.603
Tom1	130	0	2.16677	169	2.816667	2.4189	18.72066	Stalled	chr8:77555584-77594020	36.437
Rtel1	130	0	2.16677	756	12.6	6.86812	7.931974	Stalled	chr2:181052428-181091320	36.893
6330403A02Rik	130	0	2.16677	94	1.566667	0.12284	2.714313	Unclassified	chr1:182364365-182415635	49.271
Ube3a	130	0	2.16677	422	7.033333	6.48903	80.53052	Stalled	chr7:66482119-66562097	77.979
Mfhas1	130	0	2.16677	1205	20.08333	8.9498	5.737297	Stalled	chr8:36648851-36742503	91.653
Cacna2d2	130	0	2.16677	320	5.333333	0.392617	0.57291	Unclassified	chr9:107300210-107431674	129.465
Nek7	130	0	2.16677	1188	19.8	9.2776	28.7836	Stalled	chr1:140381290-140518273	134.984
Birc6	130	0	2.16677	1838	30.63333	9.17886	40.48843	Stalled	chr17:74925634-75103113	175.48
Ch11	130	78	2.16677	122	2.033333	0.036377	1.933445	Unclassified	chr6:103458869-103683029	222.161
Nf1	130	134	2.16677	1794	29.9	0.694499	13.36855	Stalled	chr11:79151393-79395111	241.719
Frm4a	130	0	2.16677	569	9.483333	0.175367	0	Unclassified	chr2:4071917-4534988	461.072
Mrp153	129	0	2.150103	0	0	0	295	Unclassified	chr6:83057101-83059926	0.826
Mrps7	129	0	2.150103	246	4.1	55.5476	4.601871	Stalled	chr11:115463464-115468938	3.475
Tnfrsf14	129	0	2.150103	13	0.216667	0.869882	4.206037	Stalled	chr17:57328914-57335609	4.696
Jagn1	129	0	2.150103	119	1.983333	17.6779	8.51195	Stalled	chr6:113390628-113398221	5.594
Ctdsp1	129	0	2.150103	230	3.833333	24.4468	3.542251	Stalled	chr1:74436182-74443851	5.67
Gtf2h4	129	0	2.150103	83	1.383333	10.319	3.711069	Stalled	chr17:35804683-35812627	5.945
Dus1l	129	0	2.150103	310	5.166667	27.0714	5.015639	Stalled	chr11:120650515-120659709	7.195
Ninj1	129	0	2.150103	109	1.816667	9.59872	13.33789	Stalled	chr13:49280915-49291620	8.706
Wdr18	129	0	2.150103	366	6.1	17.3821	2.618622	Elongating	chr10:79420896-79431991	9.096
Dmpk	129	0	2.150103	45	0.75	0.561052	1.984918	Unclassified	chr7:19667343-19678451	9.109
Cntd1	129	0	2.150103	128	2.133333	0.507498	7.03663	Stalled	chr11:101138516-101150015	9.5
Cd164	129	0	2.150103	200	3.333333	33.3462	24.43894	Stalled	chr10:41237305-41250848	11.544
Git1	129	0	2.150103	306	5.1	12.5429	4.979635	Stalled	chr11:77304913-77321276	14.364
Lrrc56	129	0	2.150103	35	0.583333	0.782118	6.826651	Stalled	chr7:148379042-148395954	14.913
Ap1m2	129	0	2.150103	60	1	0.773263	1.674056	Unclassified	chr9:21099900-21118777	16.878
Sf3a3	129	0	2.150103	332	5.533333	43.7935	7.697908	Stalled	chr4:124390104-124409666	17.563
Tbc1d20	129	0	2.150103	323	5.383333	15.4687	11.33764	Stalled	chr2:152117607-152138326	18.72
Ubi7	129	0	2.150103	143	2.383333	17.8166	41.44551	Stalled	chr9:57756792-57777775	18.984
Ivns1abp	129	0	2.150103	532	8.866667	55.7509	15.37384	Stalled	chr1:153189627-153211575	19.949
Sec24c	129	0	2.150103	776	12.93333	30.6408	8.298203	Stalled	chr14:21491542-21514072	20.531
Fah	129	0	2.150103	147	2.45	12.4812	8.303434	Stalled	chr7:91733669-91756452	20.784
5730403B10Rik	129	0	2.150103	311	5.183333	3.94948	13.68654	Stalled	chr16:4765460-4791935	24.476
Mambal	129	0	2.150103	452	7.533333	12.9763	13.84535	Stalled	chr2:157191329-15722498	29.17
Matr3	129	0	2.150103	664	11.06667	10.6683	29.56072	Stalled	chr18:35719811-35751699	29.889
Rhoq	129	0	2.150103	725	12.08333	7.00669	5.434451	Stalled	chr17:87360450-87399409	36.96
Arl8b	129	0	2.150103	513	8.55	12.9944	14.78505	Stalled	chr6:108731052-108773717	40.666
Actr2	129	0	2.150103	1284	21.4	53.0126	20.21399	Stalled	chr11:19962308-20014954	50.647
Rasgrp3	129	56	2.150103	491	8.183333	4.43765	13.10014	Stalled	chr17:75862877-75928385	63.509
Wif1	129	0	2.150103	48	0.8	0.926068	4.043295	Unclassified	chr10:120469059-120537698	66.64
Baiap211	129	0	2.150103	236	3.933333	0.512969	1.690665	Unclassified	chr5:145025393-145120981	93.589
Ankrd6	129	0	2.150103	266	4.433333	0.543543	7.080888	Stalled	chr4:32891009-33039801	146.793
Slc39a11	129	0	2.150103	1619	26.98333	6.32807	16.66673	Stalled	chr11:113106168-113429129	320.962
Fv1	128	0	2.133436	5	0.083333	12.6646	7.788515	Unclassified	chr4:147241087-147244467	1.381
1810043H04Rik	128	0	2.133436	8	0.133333	45.6001	12.97786	Unclassified	chr11:119958247-119961738	1.492
BC029214	128	0	2.133436	16	0.266667	11.488	7.248555	Unclassified	chr2:25315007-25318614	1.608
Spryd4	128	0	2.133436	21	0.35	8.97902	7.165403	Unclassified	chr10:127646965-127650850	1.886
Apex1	128	0	2.133436	152	2.533333	71.4808	3.157074	Stalled	chr14:51542695-51546813	2.119
Gsg2	128	0	2.133436	23	0.383333	15.5286	17.08009	Stalled	chr11:72948986-72953796	2.811
Ankrd37	128	0	2.133436	17	0.283333	25.5282	28.01478	Stalled	chr8:47082261-47087204	2.944
Ccdc87	128	0	2.133436	1	0.016667	2.34124	44.45638	Stalled	chr19:4837365-4842528	3.164
Coro1b	128	5	2.133436	240	4	62.8247	1.861475	Elongating	chr19:4146662-4154035	5.374
Snai3	128	0	2.133436	15	0.25	0.354665	2.678641	Unclassified	chr8:124978105-124986592	6.488
Zfp689	128	0	2.133436	96	1.6	6.12034	14.11174	Stalled	chr7:134585649-134594672	7.024
Gcat	128	24	2.133436	39	0.65	18.51	21.81101	Stalled	chr15:78859303-78868786	7.484
Pycr1	128	0	2.133436	89	1.483333	3.72673	6.310129	Stalled	chr11:120497025-120506984	7.96
2410002I01Rik	128	0	2.133436	108	1.8	5.25635	13.1438	Stalled	chr11:119951835-119962045	8.211
Zfp672	128	0	2.133436	206	3.433333	5.15885	10.61858	Stalled	chr11:58128615-58138848	8.234
Slc39a13	128	0	2.133436	300	5	4.18315	3.384423	Stalled	chr2:90901947-90912378	8.432
Pif1	128	0	2.133436	139	2.316667	13.6947	5.128292	Stalled	chr9:65433011-65443769	8.759
Osgep	128	0	2.133436	47	0.783333	11.751	64.45885	Stalled	chr14:51535048-51546568	9.521
Cdkn2aipnl	128	48	2.133436	204	3.4	34.3594	8.430596	Stalled	chr11:51779132-51790836	9.705
Prdx3	128	0	2.133436	127	2.116667	31.4099	16.03598	Stalled	chr19:60939968-60952441	10.474

2410091C18Rik	128	0	2.133436	66	1.1	5.97486	28.74353	Stalled	chr17:79334474-79347392	10.919
Hsh2d	128	0	2.133436	484	8.066667	11.8	5.705146	Stalled	chr8:74711566-74724857	11.292
Sri	128	0	2.133436	269	4.483333	41.1584	11.30032	Stalled	chr5:8054541-8069245	12.705
Vdac2	128	0	2.133436	436	7.266667	52.3272	10.99822	Stalled	chr14:22648782-22665101	14.32
D10ErtD641e	128	0	2.133436	299	4.983333	25.1033	21.27088	Stalled	chr10:59450656-59467860	15.205
Fcrl1	128	68	2.133436	186	3.1	11.817	2.497818	Elongating	chr3:87178308-87196055	15.748
P2rx1	128	0	2.133436	47	0.783333	0.152263	2.668547	Unclassified	chr11:72810646-72828699	16.054
Siglec1	128	0	2.133436	31	0.516667	0.094326	0	Unclassified	chr2:130894956-130914501	17.546
Rbm17	128	32	2.133436	304	5.066667	61.9999	11.18296	Stalled	chr2:11507065-11526826	17.762
Blvrb	128	0	2.133436	72	1.2	15.5409	14.71136	Stalled	chr7:28230996-28251000	18.005
Cebpz	128	0	2.133436	226	3.766667	12.6252	15.44903	Stalled	chr17:79318342-79338410	18.069
Gtf2h3	128	0	2.133436	223	3.716667	6.36927	28.86687	Stalled	chr5:125027156-125047689	18.534
Pld3	128	0	2.133436	298	4.966667	23.5548	11.75072	Stalled	chr7:28317036-28340131	21.096
Zh2c2	128	0	2.133436	72	1.2	2.17234	59.25187	Stalled	chr1:99664755-99689548	22.794
4930422I07Rik	128	0	2.133436	53	0.883333	8.16922	15.58059	Stalled	chr9:88440857-88465924	23.068
Lect1	128	0	2.133436	37	0.616667	0.312376	0.388248	Unclassified	chr14:80037496-80063977	24.482
Eif2s1	128	0	2.133436	412	6.866667	17.7849	17.3534	Stalled	chr12:79961058-79987997	24.94
Arf3	128	0	2.133436	382	6.366667	34.5577	13.85905	Stalled	chr15:98568056-98595549	25.494
Gnpat	128	0	2.133436	444	7.4	16.0341	22.59153	Stalled	chr8:127384932-127413957	27.026
Nbr1	128	0	2.133436	225	3.75	7.84325	12.54127	Stalled	chr11:101412171-101443259	29.089
Lta4h	128	0	2.133436	153	2.55	19.6863	31.91455	Stalled	chr10:92914140-92947641	31.502
Pvr12	128	0	2.133436	78	1.3	1.26612	3.776032	Unclassified	chr7:20301992-20336922	32.931
Fbxo21	128	0	2.133436	630	10.5	5.04841	7.34191	Stalled	chr5:118424778-118460200	33.423
Lrrc48	128	46	2.133436	75	1.25	0.117265	8.68927	Stalled	chr11:60164881-60207835	40.955
Rcbtb2	128	0	2.133436	423	7.05	4.18871	5.510312	Stalled	chr14:73540316-73583859	41.544
Gan	128	0	2.133436	509	8.483333	1.90892	26.3846	Stalled	chr8:119680034-119729086	47.053
Itgae	128	0	2.133436	626	10.43333	0.456714	0.081918	Stalled	chr11:72902096-72960951	56.856
Kcnq2	128	0	2.133436	95	1.583333	0.23152	1.145111	Unclassified	chr2:180810283-180871930	59.648
Fbln2	128	0	2.133436	102	1.7	0.060037	1.096755	Unclassified	chr6:91160757-91222534	59.778
Hisppd1	128	0	2.133436	258	4.3	4.403	47.91717	Stalled	chr1:99602622-99668669	64.048
Atp2c1	128	0	2.133436	383	6.383333	5.8989	71.96081	Stalled	chr9:105313692-105399447	83.756
Tgfb2	128	0	2.133436	2604	43.4	15.893	7.633995	Stalled	chr9:115996813-116086481	87.669
Sic12a6	128	0	2.133436	810	13.5	9.30214	15.66035	Stalled	chr2:112104470-112203320	96.851
Rnf13	128	0	2.133436	204	3.4	7.83006	57.82884	Stalled	chr3:57537987-57639155	99.169
Hist1h3g	127	0	2.116768	0	0	0	428	Unclassified	chr13:23625286-23627778	0.493
Kctd11	127	0	2.116768	7	0.116667	1.58648	36.14685	Stalled	chr11:69691765-69696487	2.723
Pfah1b3	127	0	2.116768	60	1	26.9102	2.249855	Stalled	chr7:26080067-26084974	2.908
Gpx4	127	0	2.116768	143	2.383333	55.5694	3.850515	Stalled	chr10:79514254-79519184	2.931
Chac1	127	0	2.116768	106	1.766667	10.1966	5.128826	Stalled	chr2:119174977-119180060	3.084
Fmc1	127	0	2.116768	18	0.3	24.0294	55.03891	Stalled	chr6:38482860-38489449	4.59
Zfp691	127	0	2.116768	30	0.5	8.6448	12.56228	Stalled	chr4:118842122-118848800	4.679
Tommm40l	127	0	2.116768	42	0.7	7.45317	7.716295	Stalled	chr1:173147933-173154645	4.713
Birc5	127	0	2.116768	152	2.533333	77.8321	15.80628	Stalled	chr11:117708550-117717057	6.508
Armcs	127	0	2.116768	227	3.783333	11.4489	3.549317	Stalled	chr7:135378870-135388614	7.745
Pcsk4	127	0	2.116768	196	3.266667	2.69597	0.353049	Stalled	chr10:79784046-79794218	8.173
Rbm14	127	0	2.116768	305	5.083333	26.7739	15.36673	Stalled	chr19:4800924-4813634	10.711
Tmem161a	127	0	2.116768	185	3.083333	9.96005	5.829299	Stalled	chr8:72694309-72707562	11.254
Dsn1	127	0	2.116768	109	1.816667	5.09886	26.8916	Stalled	chr2:156820797-156834811	12.015
Kdelc1	127	0	2.116768	35	0.583333	7.18912	32.30563	Stalled	chr1:44163390-44177618	12.229
Cctl8	127	0	2.116768	420	7	59.4324	13.13669	Stalled	chr16:87483569-87498114	12.546
Stk19	127	0	2.116768	148	2.466667	17.5863	17.65436	Stalled	chr17:34960937-34975848	12.912
Srcrb4d	127	0	2.116768	415	6.916667	1.73625	0	Stalled	chr5:136436093-136452346	14.254
Ermap	127	0	2.116768	26	0.433333	0.214028	0.685408	Unclassified	chr4:118848061-118864616	14.556
Sic27a4	127	0	2.116768	63	1.05	3.24228	6.845974	Stalled	chr2:29656199-29673042	14.844
Ahcy	127	0	2.116768	308	5.133333	26.165	8.10106	Stalled	chr2:154885049-154902233	15.185
Carkd	127	0	2.116768	534	8.9	15.0639	7.199036	Stalled	chr8:11495601-11513284	15.684
2610024G14Rik	127	0	2.116768	127	2.116667	18.6694	46.67197	Stalled	chr5:77723194-77741111	15.918
Sqle	127	0	2.116768	324	5.4	48.4503	14.74211	Stalled	chr15:59144646-59162748	16.103
Pick1	127	0	2.116768	173	2.883333	9.47811	14.54871	Stalled	chr15:79057603-79079896	20.294
Tyw3	127	0	2.116768	129	2.15	2.41831	26.2209	Stalled	chr3:154239483-154262059	20.577
Smtn	127	0	2.116768	242	4.033333	2.99515	8.774107	Stalled	chr11:3417525-3441295	21.771
Entpd6	127	0	2.116768	329	5.483333	15.3058	12.99661	Stalled	chr2:150572816-150597410	22.595
Wfs1	127	0	2.116768	484	8.066667	4.21861	7.309481	Stalled	chr5:37357342-37382221	22.88
Cd48	127	70	2.116768	507	8.45	31.1511	9.062789	Stalled	chr1:173610185-173635388	23.204
Mmp17	127	0	2.116768	49	0.816667	0.609776	6.708135	Stalled	chr5:130088088-130114086	23.999
Uqcrc2	127	0	2.116768	270	4.5	41.2216	21.39998	Stalled	chr7:127776702-127803037	24.336
Cbs	127	0	2.116768	55	0.916667	0.546803	7.483853	Stalled	chr17:31749588-31776086	24.499
Cryz	127	0	2.116768	57	0.95	2.8414	61.57294	Stalled	chr3:154257975-154286146	26.172
Calu	127	0	2.116768	180	3	21.7843	49.52415	Stalled	chr6:29296118-29326675	28.558
38961	127	0	2.116768	297	4.95	17.4901	37.68129	Stalled	chr1:95373569-95406307	30.739
Tmem63a	127	0	2.116768	289	4.816667	4.85432	10.73993	Stalled	chr1:182870648-182905235	32.588
Bcar1	127	0	2.116768	82	1.366667	0.163213	0	Unclassified	chr8:114234374-114269709	33.336
Bms1	127	0	2.116768	391	6.516667	22.7871	30.01814	Stalled	chr6:118333398-118371435	36.038
Brpf3	127	0	2.116768	337	5.616667	4.02052	34.53917	Stalled	chr17:28936070-28975734	37.665
Potr2b	127	0	2.116768	392	6.533333	15.9008	41.11625	Stalled	chr5:77737508-7778352	38.845
Aacs	127	0	2.116768	1099	18.31667	39.1333	10.42171	Stalled	chr5:125954242-125997773	41.532
Cul9	127	0	2.116768	289	4.816667	1.6711	22.94362	Stalled	chr17:46637553-46685337	45.785
Zfc3h1	127	0	2.116768	523	8.716667	9.7143	37.05264	Stalled	chr10:114820014-114869827	47.814
Cyld	127	0	2.116768	593	9.883333	6.2306	17.5863	Stalled	chr8:91218926-91275844	54.919
Ccdc109b	127	0	2.116768	63	1.05	2.35268	6.014806	Unclassified	chr3:129617877-129675124	55.248
Bard1	127	0	2.116768	709	11.81667	2.24884	32.30534	Stalled	chr1:71074108-71151546	75.439
Nphp4	127	0	2.116768	283	4.716667	1.56742	21.06573	Stalled	chr4:151850250-151937293	85.044
Rpgr1p1	127	0	2.116768	116	1.933333	0.424718	27.49526	Stalled	chr8:93740928-93839121	96.194
Finb	127	0	2.116768	769	12.81667	13.2211	16.32834	Stalled	chr14:8648470-8784101	133.632
Fto	127	0	2.116768	1848	30.8	8.77655	12.05465	Stalled	chr8:93835423-94192332	354.91
Tnrc18	127	0	2.116768	1315	21.91667	7.99859	5.130091	Stalled	chr5:143200557-143581066	378.51

Tmem203	126	0	2.100101	0	0	26.2161	283	Unclassified	chr2:25108958-25111872	0.915
Brp16	126	0	2.100101	68	1.133333	15.6698	4.86003	Stalled	chr15:76197327-76201841	2.515
Gper	126	0	2.100101	35	0.583333	0	0.375029	Unclassified	chr5:139897132-139903752	4.621
Pdxp	126	0	2.100101	53	0.883333	6.31605	7.666667	Stalled	chr15:78742348-78749947	5.6
E430028B21Rik	126	0	2.100101	95	1.583333	18.3848	13.04534	Stalled	chr14:27483602-27491332	5.731
Yars2	126	0	2.100101	80	1.333333	15.1667	24.26751	Stalled	chr16:16301074-16309721	6.648
Eif2b2	126	0	2.100101	131	2.183333	51.8275	9.814538	Stalled	chr12:86558462-86567578	7.117
Srms	126	0	2.100101	17	0.283333	2.31958	1.959763	Unclassified	chr2:180940267-180949876	7.61
Txn14b	126	0	2.100101	47	0.783333	2.30037	18.56056	Stalled	chr8:112087885-112097951	8.067
Pthr2	126	0	2.100101	469	7.816667	9.13121	4.173591	Stalled	chr11:86495484-86505959	8.476
Exosc5	126	0	2.100101	270	4.5	41.7661	6.153591	Stalled	chr7:26442171-26453050	8.88
Pga5	126	0	2.100101	15	0.25	0.045255	1.755494	Unclassified	chr19:10743446-10754561	9.116
Mmp11	126	0	2.100101	105	1.75	1.04933	2.91096	Stalled	chr10:75385968-75397208	9.241
Mlt11	126	0	2.100101	241	4.016667	8.86865	20.67048	Stalled	chr3:95022465-95034599	10.135
Ndor1	126	0	2.100101	377	6.283333	8.40764	7.025277	Stalled	chr2:25100338-25112934	10.597
Sfrs3	126	0	2.100101	675	11.25	32.816	9.30285	Stalled	chr17:29167617-29180311	10.695
Neur14	126	0	2.100101	356	5.933333	9.77496	5.39923	Stalled	chr11:69713379-69727324	11.946
Upf3a	126	0	2.100101	121	2.016667	23.1774	48.53062	Stalled	chr8:13783614-13798537	12.924
Pcnp	126	0	2.100101	259	4.316667	12.9526	18.6849	Stalled	chr16:56015620-56031830	14.211
Mettl6	126	0	2.100101	261	4.35	10.3764	17.9744	Stalled	chr14:32291983-32310163	16.181
Hspa9	126	0	2.100101	515	8.583333	80.0475	10.14628	Stalled	chr18:35097068-35116005	16.938
Ifngr1	126	0	2.100101	189	3.15	10.8426	19.59066	Stalled	chr10:19309763-19330031	18.269
Tbc1d7	126	0	2.100101	72	1.2	3.18948	78.68624	Stalled	chr13:43247112-43268728	19.617
Snapc1	126	0	2.100101	88	1.466667	7.68449	25.89241	Stalled	chr12:75063516-75085807	20.292
Riok2	126	0	2.100101	253	4.216667	9.34579	21.17842	Stalled	chr17:17509295-17531862	20.568
Klhl28	126	0	2.100101	78	1.3	2.73855	64.90451	Stalled	chr12:66043426-66068523	23.098
Slc13a5	126	0	2.100101	20	0.333333	0.233757	2.707001	Unclassified	chr11:72055496-72082106	24.611
Pafah2	126	0	2.100101	83	1.383333	0.869181	4.253193	Unclassified	chr4:133950274-133983325	31.052
Aspscr1	126	0	2.100101	674	11.23333	12.4099	15.99971	Stalled	chr11:120532286-120570758	36.473
Aco2	126	0	2.100101	1309	21.81667	46.4654	7.96076	Stalled	chr15:81700892-81745567	42.676
Brc1	126	0	2.100101	474	7.9	4.52798	13.68681	Stalled	chr11:101350077-101415269	63.193
Nup98	126	0	2.100101	713	11.88333	6.90413	25.95811	Stalled	chr7:109282716-109360634	75.919
Kif1a	126	0	2.100101	123	2.05	0.020237	0.81964	Unclassified	chr1:94912032-95000442	86.411
Arhgap17	126	0	2.100101	1359	22.65	9.76443	13.81744	Stalled	chr7:130422662-130515429	90.768
1810027010Rik	125	0	2.083433	1	0.016667	46.5009	5.816425	Unclassified	chr11:69650026-69653060	1.035
Gpx1	125	0	2.083433	1	0.016667	230.243	28.54221	Unclassified	chr9:108239606-108242671	1.066
Icam4	125	0	2.083433	8	0.133333	2.85278	3.352941	Unclassified	chr9:20831816-20834975	1.16
Rplp1	125	0	2.083433	17	0.283333	1412.03	6.552731	Unclassified	chr9:61761089-61764317	1.229
Gp9	125	0	2.083433	2	0.033333	0.047409	1.672755	Unclassified	chr6:87726129-87729756	1.628
Ddt	125	0	2.083433	20	0.333333	107.692	8.595611	Stalled	chr10:75233977-75238119	2.143
Nat11	125	0	2.083433	30	0.5	0.810738	2.766319	Stalled	chr7:4871852-4876608	2.757
Tspan31	125	0	2.083433	235	3.916667	28.4387	0.682719	Elongating	chr10:12650435-126509317	2.973
Ripk3	125	0	2.083433	23	0.383333	20.3497	10.62707	Stalled	chr14:56403832-56409694	3.863
Zfp3612	125	0	2.083433	308	5.133333	25.4696	4.320944	Stalled	chr17:84583268-84589287	4.02
Ftsj2	125	0	2.083433	52	0.866667	6.79378	12.03339	Stalled	chr5:140803627-140809852	4.226
1700123020Rik	125	0	2.083433	48	0.8	18.6223	22.51614	Stalled	chr14:55303007-55309579	4.573
Zfp319	125	0	2.083433	110	1.833333	4.9264	10.9058	Stalled	chr8:97850035-97857850	5.816
Nudt1	125	0	2.083433	217	3.616667	14.3147	4.85793	Stalled	chr5:140805875-140814089	6.215
Npdcc1	125	0	2.083433	17	0.283333	0.460902	0.966046	Unclassified	chr2:25256602-25265014	6.413
Hexim2	125	0	2.083433	65	1.083333	4.09373	12.78857	Stalled	chr11:102992652-103001222	6.571
5730494N06Rik	125	0	2.083433	175	2.916667	3.82312	21.37219	Stalled	chr2:132065229-132075524	8.296
Bap1	125	0	2.083433	196	3.266667	19.4428	15.9125	Stalled	chr14:32062674-32073115	8.442
Hnrnp3	125	0	2.083433	175	2.916667	18.2331	20.46895	Stalled	chr10:62477411-62488597	9.187
Scn1b	125	0	2.083433	21	0.35	0.507577	4.336259	Unclassified	chr7:31901542-31913964	10.423
Hnrnpk	125	0	2.083433	512	8.533333	89.5489	12.91333	Stalled	chr13:58493311-58505877	10.567
Sart1	125	0	2.083433	432	7.2	23.1348	9.625168	Stalled	chr19:5377522-5390703	11.182
Lrwd1	125	0	2.083433	374	6.233333	23.2476	5.444807	Stalled	chr5:136598935-136613944	13.01
Tmem41a	125	0	2.083433	27	0.45	2.447	19.93972	Stalled	chr16:21934399-21949617	13.219
Pthf7	125	0	2.083433	84	1.4	6.6723	58.64705	Stalled	chr14:32050881-32066404	13.524
Tardbp	125	0	2.083433	1166	19.43333	30.2481	4.178472	Stalled	chr4:147986490-148003105	14.616
Psmg4	125	0	2.083433	78	1.3	48.0886	58.3605	Stalled	chr13:34252845-34270041	15.197
Ankrd52	125	0	2.083433	447	7.45	20.5894	4.117835	Stalled	chr10:127812179-127831062	16.884
Wrap53	125	0	2.083433	252	4.2	17.409	6.849158	Stalled	chr11:69375255-69394826	17.572
Aifm3	125	0	2.083433	65	1.083333	0.202592	3.695597	Stalled	chr16:17487783-17507575	17.793
Lrrc43	125	0	2.083433	48	0.8	0.213083	0.542827	Unclassified	chr5:123937333-123958213	18.881
Ddx27	125	0	2.083433	682	11.36667	38.4832	5.718121	Stalled	chr2:166838812-166860445	19.634
Mmp15	125	0	2.083433	53	0.883333	0.17971	0.283377	Unclassified	chr8:97874236-97898193	21.958
Endod1	125	0	2.083433	99	1.65	2.74907	20.33179	Stalled	chr9:14158433-14187686	27.254
Ephx1	125	0	2.083433	107	1.783333	3.79758	10.8616	Stalled	chr1:182919686-182949626	27.941
Amz1	125	0	2.083433	134	2.233333	0.434371	0.868966	Unclassified	chr5:141198080-141229266	29.187
Amica1	125	0	2.083433	82	1.366667	0.844689	8.734934	Stalled	chr9:44885265-44916614	29.35
Kdm2b	125	0	2.083433	653	10.88333	22.3869	5.931434	Stalled	chr5:123320684-123352359	29.676
Padi1	125	0	2.083433	144	2.4	1.39699	0.723531	Unclassified	chr4:140368895-140403693	32.799
Pask	125	0	2.083433	194	3.233333	3.06429	11.43453	Stalled	chr1:95206013-95241365	33.353
Dhfr	125	0	2.083433	484	8.066667	4.76076	18.46043	Stalled	chr13:93122737-93159008	34.272
Atg16l1	125	0	2.083433	763	12.71667	7.06712	7.970835	Stalled	chr1:89650645-89688997	36.353
Tnfrsf8	125	0	2.083433	778	12.96667	22.12	6.947066	Stalled	chr18:50211173-50251433	38.261
Erc4	125	0	2.083433	462	7.7	3.27488	16.23854	Stalled	chr16:13107828-13152102	42.275
Rab10	125	0	2.083433	760	12.66667	24.3368	29.73896	Stalled	chr12:3247429-3311969	62.541
Stx18	125	0	2.083433	773	12.88333	14.5699	15.54983	Stalled	chr5:38428473-38528057	97.585
Msh3	125	0	2.083433	681	11.35	4.2056	52.66256	Stalled	chr13:92981835-93126958	143.124
Gab2	125	0	2.083433	198	3.3	0.320082	6.932136	Unclassified	chr7:104228260-104457461	227.202
1700112E06Rik	125	0	2.083433	746	12.43333	0.379847	3.487338	Unclassified	chr14:22836933-23875310	1036.378
Utp3	124	0	2.066766	17	0.283333	53.5739	11.28622	Unclassified	chr5:88981507-88985108	1.602
Mrps26	124	0	2.066766	12	0.2	43.5037	15.16734	Unclassified	chr2:130387492-130391130	1.639
Rab24	124	0	2.066766	111	1.85	24.6249	3.977909	Stalled	chr13:55420583-55425341	2.759

Fzd2	124	0	2.066766	6	0.1	0.457354	0.30467	Unclassified	chr11:102463744-102469372	3.629
6430527G18Rik	124	0	2.066766	87	1.45	11.4729	8.463651	Stalled	chr12:88221652-88227764	4.113
Neu1	124	0	2.066766	104	1.733333	10.9137	4.025842	Stalled	chr17:35066197-35074242	6.046
Rps6kb2	124	0	2.066766	461	7.683333	11.7653	0.983314	Elongating	chr19:4156976-4165245	6.27
BC028528	124	0	2.066766	50	0.833333	10.1753	5.963366	Stalled	chr3:95688895-95697853	6.959
Rpain	124	0	2.066766	368	6.133333	12.0704	5.315332	Stalled	chr11:70781714-70791306	7.593
Arpc5l	124	0	2.066766	462	7.7	70.8699	7.55781	Stalled	chr2:38861658-38871392	7.735
Rab37	124	0	2.066766	106	1.766667	1.63386	4.186019	Stalled	chr11:115013491-115023554	8.064
Zfp771	124	0	2.066766	636	10.6	24.7027	4.499929	Stalled	chr7:134386039-134398315	10.277
Tbrg4	124	0	2.066766	1018	16.96667	27.5604	5.346311	Stalled	chr11:6515600-6528070	10.471
Fam119a	124	0	2.066766	108	1.8	4.81614	26.18251	Stalled	chr1:64653053-64665742	10.69
Fcamr	124	0	2.066766	24	0.4	0.352945	0.697068	Unclassified	chr1:132695478-132711317	13.84
Zranb2	124	0	2.066766	175	2.916667	14.4	20.66147	Stalled	chr3:157195360-157211303	13.944
Gmfb	124	0	2.066766	241	4.016667	9.10695	12.47167	Stalled	chr14:47427823-47443917	14.095
Rchy1	124	0	2.066766	196	3.266667	12.2746	26.37405	Stalled	chr5:92377929-92394094	14.166
Dsccl	124	0	2.066766	105	1.75	4.66919	32.6623	Stalled	chr15:54907655-54924033	14.379
Napsa	124	0	2.066766	572	9.533333	143.107	5.540672	Stalled	chr7:51825814-51842216	14.403
Socs4	124	0	2.066766	187	3.116667	3.11731	26.30282	Stalled	chr14:47894817-47911266	14.45
Unc45a	124	0	2.066766	230	3.833333	21.4205	8.507148	Stalled	chr7:87470179-87487105	14.927
Pomp	124	0	2.066766	448	7.466667	117.368	11.39137	Stalled	chr5:148670203-148687354	15.152
Atp6v1b1	124	0	2.066766	55	0.916667	0.199528	0.211978	Unclassified	chr6:83691010-83708804	15.795
Rcn2	124	0	2.066766	116	1.933333	6.25648	19.77193	Stalled	chr9:55887651-55906890	17.24
Dad1	124	0	2.066766	432	7.2	64.9549	8.966652	Stalled	chr14:54855159-54875604	18.446
Shc2	124	0	2.066766	33	0.55	0.042106	1.460659	Unclassified	chr10:79080682-79102663	19.982
Ccdc58	124	0	2.066766	238	3.966667	22.5663	39.22838	Stalled	chr16:36069745-36092204	20.46
Arhgef16	124	0	2.066766	20	0.333333	0.070756	4.54753	Unclassified	chr4:153652578-153676004	21.427
Pfkl	124	0	2.066766	493	8.216667	43.7607	13.66493	Stalled	chr10:77449693-77474541	22.849
Tiprl	124	0	2.066766	129	2.15	6.34414	32.71817	Stalled	chr1:167142416-167169089	24.674
Abcc10	124	0	2.066766	93	1.55	3.08395	72.32523	Stalled	chr17:46440178-46466972	24.795
Tmem9	124	0	2.066766	240	4	12.3348	0.971062	Stalled	chr1:137902795-137931606	26.812
Nup88	124	0	2.066766	413	6.883333	28.8642	16.63692	Stalled	chr11:70756572-70785464	26.893
Fam162a	124	0	2.066766	332	5.533333	65.3442	31.15926	Stalled	chr16:36043929-36073601	27.673
Srp68	124	0	2.066766	840	14	33.933	10.79393	Stalled	chr11:116106479-116137531	29.053
Ccnt2	124	0	2.066766	373	6.216667	9.63078	23.21382	Stalled	chr1:129668740-129701414	30.675
Crkl	124	0	2.066766	333	5.55	13.8684	34.15382	Stalled	chr16:17450079-17486348	34.27
Wdhd1	124	0	2.066766	444	7.4	12.3972	29.74499	Stalled	chr14:47860618-47898532	35.915
Rrm2b	124	0	2.066766	102	1.7	1.85809	81.04211	Stalled	chr15:37853707-37892810	37.104
Pla2g6	124	0	2.066766	364	6.066667	3.76563	20.32227	Stalled	chr15:79116657-79160598	41.942
Tnip3	124	0	2.066766	97	1.616667	0.99964	3.359142	Unclassified	chr6:65538391-65584034	43.644
Ero1b	124	0	2.066766	390	6.5	16.4265	30.45883	Stalled	chr13:12656149-12701795	43.647
Ikkb1	124	0	2.066766	970	16.16667	20.911	8.487478	Stalled	chr8:23769677-23819055	47.379
Acss1	124	0	2.066766	162	2.7	6.8138	11.8679	Stalled	chr2:150443846-150495976	50.131
Nck1	124	0	2.066766	241	4.016667	6.37916	57.43774	Stalled	chr9:100395421-100448472	51.052
Lrp4	124	0	2.066766	83	1.383333	0.257733	2.000817	Unclassified	chr2:91295687-91354057	56.371
Cab39	124	0	2.066766	750	12.5	17.1255	12.88268	Stalled	chr1:87688021-87748152	58.132
Snx14	124	0	2.066766	195	3.25	5.41072	71.19032	Stalled	chr9:88271584-88335789	62.206
Edem3	124	0	2.066766	297	4.95	6.50962	40.88677	Stalled	chr1:153600503-153669458	66.956
Banp	124	49	2.066766	955	15.91667	3.15814	22.72968	Stalled	chr8:124472432-124553158	78.727
Gcom1	124	0	2.066766	249	4.15	3.244	14.24289	Stalled	chr9:71352153-71442167	88.015
Adarb1	124	0	2.066766	233	3.883333	0.275587	12.31874	Stalled	chr10:76753471-76883018	127.548
Ccny	124	0	2.066766	576	9.6	9.62421	39.70926	Stalled	chr18:9314041-9452148	136.108
Tmem147	123	0	2.050098	17	0.283333	28.6263	9.035884	Unclassified	chr7:31512719-31516553	1.835
Setd6	123	0	2.050098	127	2.116667	12.4338	4.409968	Stalled	chr8:98237812-98242904	3.093
Mclr	123	0	2.050098	5	0.083333	0.199272	3.826399	Unclassified	chr8:125928981-125934647	3.667
Nubp2	123	0	2.050098	119	1.983333	33.2806	6.326718	Stalled	chr17:25019555-25025295	3.741
Suox	123	0	2.050098	21	0.35	2.5642	4.669455	Stalled	chr10:128106942-128112974	4.033
Fit3l	123	0	2.050098	47	0.783333	7.54375	6.461313	Stalled	chr7:52386558-52393802	5.245
Gm16517	123	0	2.050098	100	1.666667	25.4655	6.057776	Stalled	chr10:79130154-79138871	6.718
Bud31	123	0	2.050098	222	3.7	43.2193	7.360134	Stalled	chr5:145899265-145908943	7.679
Bsnd	123	0	2.050098	24	0.4	0.448619	4.654513	Stalled	chr4:106156062-106166848	8.787
Eny2	123	0	2.050098	56	0.933333	6.44525	44.7552	Stalled	chr15:44257656-44269231	9.576
D17H6S56E-3	123	0	2.050098	211	3.516667	0.406825	13.61089	Stalled	chr17:35151523-35163686	10.164
Rasd2	123	0	2.050098	22	0.366667	0.036488	0.588432	Unclassified	chr8:77735842-77748012	10.171
Letmd1	123	0	2.050098	107	1.783333	7.97425	22.53037	Stalled	chr15:100297464-100309683	10.22
Cox4i2	123	0	2.050098	30	0.5	3.0322	0.989916	Unclassified	chr2:152577908-152590773	10.866
Cct5	123	0	2.050098	510	8.5	133.794	9.579983	Stalled	chr15:31520638-31533559	10.922
Eef1g	123	0	2.050098	736	12.26667	214.755	4.94722	Stalled	chr19:9039530-9052670	11.141
Cobra1	123	0	2.050098	231	3.85	31.8044	10.69969	Stalled	chr2:25055231-25069009	11.779
Ndrg4	123	0	2.050098	65	1.083333	0.524132	1.57909	Unclassified	chr8:98224962-98238856	11.895
Mars	123	0	2.050098	622	10.36667	38.8587	8.489278	Stalled	chr10:126733277-126750842	15.566
Lepre1	123	0	2.050098	85	1.416667	5.13709	25.59242	Stalled	chr4:118903519-118921582	16.064
Fam78a	123	0	2.050098	322	5.366667	14.6477	4.964543	Stalled	chr2:31922404-31941225	16.822
Fam83d	123	0	2.050098	412	6.866667	7.35379	15.63957	Stalled	chr2:158591834-158612373	18.54
Wibg	123	0	2.050098	338	5.633333	33.5261	14.07179	Stalled	chr10:128182934-128203619	18.686
C3	123	0	2.050098	73	1.216667	0.629067	0.722664	Unclassified	chr17:57343395-57369559	24.165
Gch1	123	0	2.050098	473	7.883333	8.12741	14.55132	Stalled	chr14:47773569-47811077	35.509
Cyb5b	123	0	2.050098	1171	19.51667	42.2054	9.762771	Stalled	chr8:109672560-109711370	36.811
Cryz1l	123	0	2.050098	262	4.366667	4.37502	9.277041	Stalled	chr16:91689702-91730844	39.143
Kdsr	123	0	2.050098	209	3.483333	1.55522	30.84277	Stalled	chr1:108616986-108658319	39.334
Pik3r6	123	0	2.050098	212	3.533333	2.58656	7.469819	Stalled	chr11:68314520-68366200	49.681
Tmem110	123	0	2.050098	743	12.38333	6.63185	11.16152	Stalled	chr14:31636779-31690395	51.617
Nudcd1	123	0	2.050098	188	3.133333	10.474	64.86333	Stalled	chr15:44206772-44261853	53.082
Pspcl	123	0	2.050098	489	8.15	25.3311	33.99873	Stalled	chr14:57341285-57399153	55.869
Tbc1d22b	123	0	2.050098	627	10.45	8.21136	6.396153	Stalled	chr17:29684746-29743753	57.008
Rassf3	123	0	2.050098	543	9.05	10.9279	19.96458	Stalled	chr10:120847406-120915306	65.901
3110009E18Rik	123	0	2.050098	253	4.216667	1.99599	71.78965	Stalled	chr1:122015771-122084766	66.996

Mrps27	123	0	2.050098	851	14.18333	18.8211	27.43256	Stalled	chr13:100112740-100185516	70.777
Mll1	123	0	2.050098	970	16.16667	9.27754	9.551561	Stalled	chr9:44611437-44691357	77.921
Dnm2	123	0	2.050098	1299	21.65	35.2096	13.58721	Stalled	chr9:21227388-21311568	82.181
Erp44	123	0	2.050098	848	14.13333	30.0395	24.02694	Stalled	chr4:48206202-48294461	86.26
Ccdc18	123	0	2.050098	126	2.1	0.976827	119.265	Stalled	chr5:108559932-108661968	100.037
Invs	123	0	2.050098	525	8.75	2.16591	58.56971	Stalled	chr4:48290673-48444825	152.153
2610021K21Rik	123	0	2.050098	428	7.133333	2.40913	32.26427	Stalled	chr12:100955740-101123652	165.913
Hipk2	123	0	2.050098	2074	34.56667	7.80969	9.846972	Stalled	chr6:38647838-38828189	178.352
Hist1h3h	122	0	2.033431	0	0	0	258	Unclassified	chr13:21807496-21809984	0.489
Nt5c	122	0	2.033431	21	0.35	73.0982	5.196353	Unclassified	chr11:115351739-115355128	1.39
Ffar3	122	0	2.033431	1	0.016667	0.141965	5.513514	Unclassified	chr7:31639348-31643197	1.85
Uqcrc	122	0	2.033431	43	0.716667	197.298	5.102085	Unclassified	chr11:53242449-53246333	1.885
H2-Ke6	122	0	2.033431	44	0.733333	27.7942	7.346127	Stalled	chr17:34162977-34167000	2.024
Rpl37a	122	0	2.033431	60	1	130.026	8.275535	Stalled	chr1:72755833-72760385	2.553
Trpt1	122	0	2.033431	285	4.75	2.14904	0.367476	Stalled	chr19:7068620-7073536	2.917
Ube2c	122	0	2.033431	97	1.616667	53.0197	5.467542	Stalled	chr2:164593428-164598402	2.975
Atp5e	122	0	2.033431	81	1.35	271.597	8.793178	Stalled	chr2:174286575-174291602	3.028
Hax1	122	0	2.033431	11	0.183333	35.0627	42.15479	Stalled	chr3:89799378-89804608	3.231
Exosc4	122	0	2.033431	62	1.033333	15.6678	7.397511	Stalled	chr15:76155826-76161100	3.275
Krtcap2	122	0	2.033431	80	1.333333	106.04	5.083951	Stalled	chr3:89048359-89053644	3.286
Naprt1	122	0	2.033431	34	0.566667	3.46589	8.346313	Stalled	chr15:75721393-75726911	3.519
Ddn	122	0	2.033431	16	0.266667	0.664709	0.657091	Unclassified	chr15:98634212-98640356	4.145
Abhd14b	122	0	2.033431	23	0.383333	3.11888	4.368341	Stalled	chr9:106348970-106355249	4.28
Cdk5	122	0	2.033431	15	0.25	5.9212	18.23639	Stalled	chr5:23924059-23931348	5.29
Testk1	122	0	2.033431	185	3.083333	6.63756	1.694071	Elongating	chr4:43453148-43460946	5.799
Tmem138	122	0	2.033431	41	0.683333	4.66186	37.23157	Stalled	chr19:10645374-10653587	6.214
Zfp213	122	0	2.033431	113	1.883333	5.12203	22.54667	Stalled	chr17:23693735-23703193	7.459
Prss16	122	0	2.033431	36	0.6	1.65481	0	Unclassified	chr13:22094044-22103610	7.567
mmu-mir-219-1	122	0	2.033431	861	14.35	ND	ND	Stalled	chr17:34159647-34167321	7.675
Fam131a	122	0	2.033431	59	0.983333	0.998802	0.740622	Unclassified	chr16:20693129-20703109	7.981
Grb7	122	0	2.033431	96	1.6	0.807073	0.218493	Stalled	chr11:98306147-98316687	8.541
Eif2b1	122	0	2.033431	277	4.616667	13.3439	10.7411	Stalled	chr5:125020222-125031066	8.845
Qpctl	122	0	2.033431	126	2.1	9.94028	7.267314	Stalled	chr7:19725655-19736545	8.981
Ddx56	122	0	2.033431	501	8.35	15.208	6.355835	Stalled	chr11:6157547-6169732	10.186
Ubiad1	122	0	2.033431	115	1.916667	9.40991	13.03599	Stalled	chr4:147808605-147820860	10.256
Rsl1d1	122	0	2.033431	357	5.95	37.161	10.00874	Stalled	chr16:11193129-11205385	10.257
Tmem132a	122	0	2.033431	645	10.75	4.98653	1.252226	Elongating	chr19:10932318-10946269	11.952
Klf15	122	0	2.033431	18	0.3	0.044695	0.391584	Unclassified	chr6:90410619-90425203	12.585
Arrdc3	122	80	2.033431	698	11.63333	2.10279	3.947034	Stalled	chr13:81020682-81035303	12.622
Snrnp70	122	0	2.033431	1250	20.83333	229.731	6.413182	Stalled	chr7:52631823-52653017	19.195
Anp32b	122	0	2.033431	1661	27.68333	200.227	4.078182	Stalled	chr4:46461988-46485395	21.408
Tmem59	122	0	2.033431	166	2.766667	20.6834	33.52585	Stalled	chr4:106849234-106873599	22.366
Rarg	122	0	2.033431	71	1.183333	0.715613	0.931223	Unclassified	chr15:102065370-102089914	22.545
Ndufv2	122	0	2.033431	203	3.383333	30.1984	29.74207	Stalled	chr17:66428134-66452831	22.698
Derl1	122	0	2.033431	662	11.03333	28.0515	8.909261	Stalled	chr15:57701056-57725973	22.918
Ddb1	122	0	2.033431	531	8.85	60.3629	19.63172	Stalled	chr19:10678114-10704311	24.198
Slc37a2	122	0	2.033431	241	4.016667	4.26934	10.94326	Stalled	chr9:37036733-37065323	26.591
Sult2b1	122	0	2.033431	567	9.45	2.49489	0.239878	Stalled	chr7:52985353-53016925	29.573
Hs1bp3	122	0	2.033431	142	2.366667	0.929112	5.487832	Stalled	chr12:8318238-8350630	30.393
Ece2	122	0	2.033431	360	6	14.9548	13.63757	Stalled	chr16:20609673-20645988	34.316
Etnk1	122	59	2.033431	966	16.1	21.9013	17.34726	Stalled	chr6:143113749-143157064	41.316
Mlh1	122	0	2.033431	353	5.883333	7.65529	61.31413	Stalled	chr9:111130731-111176112	43.382
Sic22a4	122	0	2.033431	54	0.9	0.714756	3.141518	Unclassified	chr11:53796627-53843592	44.966
Acly	122	0	2.033431	904	15.06667	67.8567	18.21615	Stalled	chr11:100337669-100391215	51.547
Btbd16	122	0	2.033431	92	1.533333	0.112031	2.491143	Unclassified	chr7:137915582-137969411	51.83
Cnot10	122	0	2.033431	545	9.083333	17.3642	15.2071	Stalled	chr9:114494995-114551192	54.198
Tptn5	122	0	2.033431	221	3.683333	0.365893	0.198939	Unclassified	chr7:54333171-54391054	55.884
Tpp2	122	0	2.033431	725	12.08333	8.16975	37.97002	Stalled	chr1:43988851-44059816	68.966
Sic38a1	122	0	2.033431	2305	38.41667	21.177	8.522725	Stalled	chr15:96401849-96474393	70.545
Ccdc93	122	0	2.033431	515	8.583333	2.73743	17.67117	Stalled	chr1:123325643-123403037	75.395
Uxs1	122	0	2.033431	548	9.133333	5.15114	33.18896	Stalled	chr1:43807075-43886553	77.479
Serpini1	122	0	2.033431	185	3.083333	2.36002	76.81281	Stalled	chr3:75359454-75446445	84.992
Sic22a3	122	0	2.033431	134	2.233333	0.05128	0.392929	Unclassified	chr17:12612839-12702570	87.732
Myof	122	0	2.033431	705	11.75	1.52646	1.860805	Stalled	chr19:37973525-38120067	144.543
Fmn2	122	0	2.033431	245	4.083333	1.76821	7.361894	Unclassified	chr1:176429955-176752860	320.906
Hist1h4i	121	27	2.016763	0	0	0	432	Unclassified	chr13:22132684-22135221	0.538
Sox15	121	0	2.016763	14	0.233333	0.184143	2.052632	Unclassified	chr11:69466874-69470123	1.25
4930426L09Rik	121	0	2.016763	2	0.033333	7.01398	52.00161	Unclassified	chr2:18917945-18921430	1.486
Dom3z	121	0	2.016763	64	1.066667	16.3919	4.269238	Stalled	chr17:34971963-34976131	2.169
Ndufa3	121	0	2.016763	63	1.05	111.35	3.702115	Stalled	chr7:3566974-3571763	2.79
Dnase2a	121	0	2.016763	29	0.483333	9.88275	8.706313	Stalled	chr8:87430522-87435360	2.839
Zfp296	121	0	2.016763	137	2.283333	15.9404	3.792295	Stalled	chr7:20161164-20166004	2.841
Dctpp1	121	0	2.016763	43	0.716667	63.95	8.469184	Stalled	chr7:134400475-134406181	3.707
Galt	121	0	2.016763	28	0.466667	9.22822	8.284835	Stalled	chr4:41700125-41705998	3.874
Ppox	121	0	2.016763	57	0.95	15.2699	4.619111	Stalled	chr1:173207122-173213317	4.196
Aif1	121	0	2.016763	112	1.866667	0.907721	0.24202	Stalled	chr17:35307936-35314946	5.011
1100001G20Rik	121	0	2.016763	7	0.116667	0.526698	5.629655	Unclassified	chr11:83558441-83566148	5.708
Gm505	121	0	2.016763	198	3.3	14.6785	10.90589	Stalled	chr8:127419785-127427713	5.929
Crygn	121	0	2.016763	160	2.666667	2.59184	0.035226	Stalled	chr5:24256820-24265661	6.842
Trim28	121	0	2.016763	420	7	64.8482	5.289742	Stalled	chr7:13607500-13616381	6.882
BC024139	121	0	2.016763	18	0.3	0	0.251186	Unclassified	chr15:75949949-75958986	7.038
0610007P14Rik	121	0	2.016763	175	2.916667	32.0498	12.02141	Stalled	chr12:87156404-87167495	9.092
Mmp14	121	0	2.016763	54	0.9	1.28805	3.315628	Stalled	chr14:55048440-55060095	9.656
Plin3	121	0	2.016763	102	1.7	17.3493	6.187115	Stalled	chr17:56418384-56431934	11.551
Cant1	121	0	2.016763	285	4.75	11.7866	13.32044	Stalled	chr11:118267602-118282366	12.765
4833439L19Rik	121	0	2.016763	191	3.183333	6.53779	9.672324	Stalled	chr13:54652579-54668743	14.165

Asf1b	121	0	2.016763	185	3.083333	31.502	10.67979	Stalled	chr8:86477592-86494094	14.503
Zfp35	121	0	2.016763	247	4.116667	3.79356	9.066203	Stalled	chr18:24146134-24163872	15.739
Dctn5	121	0	2.016763	180	3	24.9536	28.77808	Stalled	chr7:129274554-129292558	16.005
Ccr9	121	0	2.016763	63	1.05	0.163629	0.389735	Unclassified	chr9:123674328-123692575	16.248
Rnf4	121	0	2.016763	473	7.883333	19.97999	16.43426	Stalled	chr5:34677038-34696079	17.042
Gtf3c4	121	0	2.016763	248	4.133333	5.57045	22.52698	Stalled	chr2:28677821-28697880	18.06
C130022K22Rik	121	0	2.016763	167	2.783333	9.77144	22.81284	Stalled	chr6:91826046-91849842	21.797
Alox5ap	121	0	2.016763	96	1.6	2.17607	2.422922	Unclassified	chr5:150074633-150099623	22.991
Palb2	121	0	2.016763	191	3.183333	3.08817	43.25874	Stalled	chr7:129250778-129278460	25.683
Chaf1a	121	0	2.016763	861	14.35	34.8227	5.066885	Stalled	chr17:56177838-56207449	27.612
Map3k7ip1	121	0	2.016763	534	8.9	7.45203	12.36328	Stalled	chr15:79961583-79992132	28.55
Ssu72	121	0	2.016763	747	12.45	48.8081	13.75739	Stalled	chr4:155076923-155107982	29.06
Hic2	121	0	2.016763	243	4.05	1.06638	14.74905	Stalled	chr16:17231679-17263523	29.845
EG240055	121	0	2.016763	84	1.4	0.149172	3.718213	Unclassified	chr17:26549909-26583285	31.377
Hnrrnpul1	121	0	2.016763	1255	20.91667	92.8896	7.678126	Stalled	chr7:26507057-26541720	32.664
Ncbp1	121	0	2.016763	488	8.133333	20.1013	23.93284	Stalled	chr4:46149382-46185274	33.893
Zcwpw1	121	0	2.016763	45	0.75	2.75876	41.62065	Stalled	chr5:138227029-138263848	34.82
Cass4	121	0	2.016763	248	4.133333	0.965992	5.988296	Stalled	chr2:172217293-172258360	39.068
Gpr160	121	0	2.016763	179	2.983333	2.31164	3.487603	Stalled	chr3:30752871-30796114	41.244
Ppl	121	0	2.016763	218	3.633333	0.451122	1.030244	Unclassified	chr16:5086383-5134574	46.192
Ddx31	121	0	2.016763	840	14	6.68645	25.19476	Stalled	chr2:28693925-28761094	65.17
Ern1	121	0	2.016763	571	9.516667	5.67224	27.69176	Stalled	chr11:106258933-106351110	90.178
Pcnt	121	0	2.016763	1511	25.18333	8.40816	22.18868	Stalled	chr10:75813998-75907657	91.66
Gpd2	121	0	2.016763	608	10.13333	3.59939	66.43879	Stalled	chr2:57088792-57223130	132.339
Pip4k2a	121	0	2.016763	847	14.11667	8.66771	41.58159	Stalled	chr2:18763882-18921748	155.867
Vps13a	121	0	2.016763	561	9.35	3.29675	44.40596	Stalled	chr19:16691163-16857417	164.255
Tmtc1	121	0	2.016763	238	3.966667	0	0.939687	Unclassified	chr6:148180951-148394874	211.924
Ragef4	121	0	2.016763	590	9.833333	0.146128	1.586008	Unclassified	chr2:71817343-72094433	275.091
Tmem223	121	0	2.000096	21	0.35	21.2564	7.031051	Unclassified	chr19:8843485-8846965	1.481
Tmem191c	120	0	2.000096	38	0.633333	3.20484	1.107261	Elongating	chr16:17274392-17278753	2.362
Wbp1	120	0	2.000096	147	2.45	16.8256	1.462798	Elongating	chr6:83069037-83073455	2.419
H2-M5	120	0	2.000096	19	0.316667	29.0113	1.119268	Unclassified	chr17:37123799-37128449	2.651
Rps13	120	0	2.000096	123	2.05	52.1361	6.000241	Stalled	chr7:123475020-123479704	2.685
Prrt2	120	0	2.000096	21	0.35	0.509565	18.27984	Stalled	chr7:134161055-134166725	3.671
Rpusd3	120	0	2.000096	81	1.35	7.80131	5.287115	Stalled	chr6:113365313-113371334	4.022
Egr2	120	0	2.000096	323	5.383333	8.96811	2.025242	Elongating	chr10:66998616-67004936	4.321
230009A05Rik	120	0	2.000096	12	0.2	18.3839	17.89702	Stalled	chr9:63242253-63249051	4.799
Abhd1	120	0	2.000096	290	4.833333	7.12163	1.782227	Elongating	chr5:31250438-31257468	5.031
Leng1	120	0	2.000096	276	4.6	11.4966	3.339555	Stalled	chr7:3611708-3619442	5.735
Preb	120	0	2.000096	421	7.016667	21.003	4.470077	Stalled	chr5:31254039-31264734	8.696
Hars2	120	0	2.000096	45	0.75	6.29606	52.22687	Stalled	chr18:36940933-36952214	9.282
Dvl2	120	0	2.000096	112	1.866667	11.8142	18.38059	Stalled	chr11:69812127-69823611	9.485
Erh	120	0	2.000096	315	5.25	63.8961	9.77248	Stalled	chr12:81735009-81746848	9.84
Signlecg	120	0	2.000096	269	4.483333	41.9123	3.490465	Stalled	chr7:50661649-50673719	10.071
Zscan10	120	0	2.000096	28	0.466667	0.476153	0.986412	Unclassified	chr17:23735822-23747986	10.165
Ap4b1	120	0	2.000096	53	0.883333	9.38829	51.73498	Stalled	chr3:103611439-103625946	12.508
Txndc9	120	0	2.000096	351	5.85	5.07502	8.254869	Stalled	chr1:38040711-38056053	13.343
Cetn3	120	0	2.000096	67	1.116667	24.746	69.4364	Stalled	chr13:81920290-81936156	13.867
Snrpa1	120	0	2.000096	286	4.766667	44.3714	13.10799	Stalled	chr7:73203221-73219472	14.252
Vegfa	120	0	2.000096	860	14.33333	24.5133	5.527725	Stalled	chr17:46153942-46171326	15.385
Rps6k11	120	0	2.000096	273	4.55	1.44595	0.764939	Stalled	chr12:86476545-86494214	15.67
Zfp653	120	0	2.000096	257	4.283333	6.40158	10.0748	Stalled	chr9:21859903-21877789	15.887
Qdpr	120	0	2.000096	125	2.083333	36.0132	24.06424	Stalled	chr5:45825272-45843468	16.197
Rspsh1	120	0	2.000096	95	1.583333	1.50975	2.567794	Unclassified	chr17:31391964-31416301	22.338
Ada	120	0	2.000096	763	12.71667	11.2298	1.438082	Elongating	chr2:163552319-163577913	23.595
Scnn1a	120	0	2.000096	33	0.55	0.139206	0.812992	Unclassified	chr6:125269357-125294958	23.602
Nub1	120	0	2.000096	572	9.533333	23.9266	9.923353	Stalled	chr5:24189632-24216373	24.742
Tiparp	120	0	2.000096	720	12	4.92663	20.72356	Stalled	chr3:65330368-65359440	27.073
Eng	120	0	2.000096	252	4.2	2.86347	2.932408	Stalled	chr2:32500114-32538189	36.076
Rab11fip5	120	0	2.000096	86	1.433333	0.171683	4.032613	Unclassified	chr6:85284955-85326628	39.674
Kif11	120	0	2.000096	613	10.21667	16.0577	22.51781	Stalled	chr19:37448892-37496349	45.458
Orc4l	120	0	2.000096	297	4.95	2.80987	40.45414	Stalled	chr2:48758371-48806787	46.417
Tcfcp2	120	0	2.000096	107	1.783333	1.55151	49.96766	Stalled	chr15:100333226-100384378	49.153
4921517L17Rik	120	0	2.000096	267	4.45	2.47725	84.98771	Stalled	chr2:156136208-156201374	63.167
Dync1h1	120	0	2.000096	908	15.13333	17.4029	14.33654	Stalled	chr12:111837604-111905154	65.551
Spna2	120	0	2.000096	1038	17.3	15.6073	20.53447	Stalled	chr2:29819079-29886970	65.892
Elov15	120	0	2.000096	817	13.61667	12.3401	15.50608	Stalled	chr9:77763171-77832326	67.156
Heatr5a	120	0	2.000096	388	6.466667	2.19408	29.56151	Stalled	chr12:52976859-53074308	95.45
38785	120	0	2.000096	241	4.016667	0.255392	0.847817	Unclassified	chr11:105222112-105320049	95.938
Sico5a1	120	0	2.000096	159	2.65	0.54796	13.55758	Stalled	chr1:12856630-12983216	124.587
Rps6ka2	120	0	2.000096	302	5.033333	1.00936	32.88289	Stalled	chr17:7372463-7507664	133.202
Myrip	120	0	2.000096	232	3.866667	0.024222	1.267635	Unclassified	chr9:120211190-120383952	170.763
Tbc1d1	120	0	2.000096	3910	65.16667	9.93876	13.78255	Stalled	chr5:64549449-64742725	191.277
Grik3	120	0	2.000096	278	4.633333	0.021016	0.888765	Unclassified	chr4:125166074-125391417	223.344
Mbd5	120	0	2.000096	820	13.66667	1.00434	95.14994	Stalled	chr2:48803027-49172589	367.563
BC050777	119	0	1.983428	5	0.083333	0.173291	1.209141	Unclassified	chr2:181225910-181229685	1.776
Gm5464	119	62	1.983428	22	0.366667	3.96415	17.78693	Stalled	chr14:67485686-67489842	2.157
Isyna1	119	0	1.983428	150	2.5	51.611	3.411782	Stalled	chr8:73116379-73121189	2.811
Sigmar1	119	0	1.983428	48	0.8	23.4156	7.850117	Stalled	chr4:41685368-41690186	2.819
Hsd3b7	119	0	1.983428	52	0.866667	1.0685	5.34625	Stalled	chr7:134942122-134947316	3.195
Ppp1ca	119	0	1.983428	214	3.566667	208.07	2.473033	Stalled	chr19:4190173-4195419	3.247
ppmu-mir-15a,n	119	0	1.983428	545	9.083333	ND	ND	Stalled	chr14:62265419-62269754	4.336
Scamp3	119	0	1.983428	85	1.416667	26.4256	11.13918	Stalled	chr3:88979406-88986692	5.287
Fcrib	119	0	1.983428	47	0.783333	2.40445	0.451906	Unclassified	chr1:172837403-172845072	5.67
Tmco6	119	0	1.983428	131	2.183333	11.7348	12.93857	Stalled	chr18:36892723-36902045	7.323
Rpl5	119	0	1.983428	533	8.883333	113.83	4.911226	Stalled	chr5:108327608-108337069	7.462

Gm9790	119	0	1.983428	83	1.383333	0	33.25819	Stalled	chr9:121758657-121768649	7.993
Dhrs11	119	0	1.983428	234	3.9	9.62978	9.802115	Stalled	chr11:84634229-84644505	8.277
Rnpep11	119	0	1.983428	142	2.366667	13.7123	2.411041	Elongating	chr1:94805981-94817415	9.435
Higd1a	119	0	1.983428	108	1.8	17.6954	35.52481	Stalled	chr9:121757677-121769118	9.442
Gsk3a	119	33	1.983428	313	5.216667	32.8206	2.672314	Elongating	chr7:26013277-26024870	9.594
Ivbl	119	0	1.983428	106	1.766667	12.0932	15.34315	Stalled	chr10:78035286-78047238	9.953
Gpat2	119	0	1.983428	144	2.4	0.151182	0.385783	Stalled	chr2:127248934-127261828	10.895
Nenf	119	0	1.983428	131	2.183333	17.5294	13.29427	Stalled	chr1:193130675-193143997	11.323
Zfyve21	119	0	1.983428	187	3.116667	7.24942	11.47418	Stalled	chr12:113050480-113066287	13.808
Msh6	119	0	1.983428	839	13.98333	23.8927	6.289588	Stalled	chr17:88372389-88390223	15.835
Atp2a1	119	0	1.983428	365	6.083333	1.06742	0.212675	Stalled	chr7:133589373-133608587	17.215
Cdc7	119	0	1.983428	191	3.183333	7.55846	33.92684	Stalled	chr5:107391340-107413450	20.111
Rapgef3	119	0	1.983428	133	2.216667	2.29861	7.438807	Stalled	chr15:97575383-97600097	22.715
Smpd13b	119	0	1.983428	182	3.033333	1.69738	3.166539	Stalled	chr4:132288880-132315086	24.207
Zfp385a	119	0	1.983428	135	2.25	3.09903	2.516265	Unclassified	chr15:103144325-103172517	26.193
C1galt1	119	0	1.983428	313	5.216667	5.59394	10.66841	Stalled	chr6:7793223-7822041	26.819
Tpcn2	119	0	1.983428	485	8.083333	3.83239	5.248106	Stalled	chr7:152439827-152471832	30.006
Bdh1	119	0	1.983428	241	4.016667	11.7237	8.95595	Stalled	chr16:31426838-31458987	30.15
Dlgap5	119	0	1.983428	372	6.2	11.6817	9.147736	Stalled	chr14:48007454-48040082	30.629
Ndc80	119	0	1.983428	202	3.366667	7.73905	30.56038	Stalled	chr17:71845439-71878197	30.759
G3bp2	119	0	1.983428	500	8.333333	23.2859	21.38985	Stalled	chr5:92481171-92514761	31.591
Snx3	119	0	1.983428	247	4.116667	58.8384	28.34652	Stalled	chr10:42219859-42255175	33.317
Gpr89	119	0	1.983428	289	4.816667	10.6216	20.73038	Stalled	chr3:96674988-96711221	34.234
Trdmt1	119	0	1.983428	104	1.733333	2.02339	35.0876	Stalled	chr2:13431787-13468291	34.505
Nek4	119	0	1.983428	72	1.2	3.46105	62.04789	Stalled	chr14:31762673-31800587	35.915
Hsd12	119	0	1.983428	125	2.083333	7.00454	51.09674	Stalled	chr4:59592462-59631566	37.105
Xpo4	119	0	1.983428	946	15.76667	4.27101	26.78687	Stalled	chr14:58201107-58285793	82.687
Tinf2	118	0	1.966761	35	0.583333	16.223	8.506098	Stalled	chr14:56297919-56302654	2.736
Rpl35a	118	0	1.966761	303	5.05	0	3.267531	Stalled	chr16:33054538-33060274	3.737
Gats13	118	0	1.966761	41	0.683333	2.63229	3.220109	Stalled	chr11:4116253-4122412	4.16
Dnajc4	118	0	1.966761	39	0.65	6.34628	8.81177	Stalled	chr19:7062400-7068762	4.363
Ebi3	118	0	1.966761	160	2.666667	56.8936	3.205329	Stalled	chr17:56090045-56096445	4.401
Cdkn2aip	118	0	1.966761	23	0.383333	4.71605	36.44477	Stalled	chr8:48794697-48801285	4.589
Naif1	118	0	1.966761	229	3.816667	7.39902	0.483167	Stalled	chr2:32303976-32310996	5.021
Cd3d	118	0	1.966761	100	1.666667	1.84027	0.081866	Stalled	chr9:44787868-44795135	5.268
Dhh	118	0	1.966761	18	0.3	2.31669	0.802132	Unclassified	chr15:98723457-98730971	5.515
1110059G10Rik	118	0	1.966761	52	0.866667	3.17167	21.66751	Stalled	chr9:122854206-122862118	5.913
Snrnp27	118	0	1.966761	57	0.95	17.2536	25.10299	Stalled	chr6:86625162-86636485	9.324
Mapk12	118	0	1.966761	30	0.5	0.60384	3.030675	Unclassified	chr15:88961014-88973133	10.12
Prmt5	118	0	1.966761	263	4.383333	26.7983	7.608322	Stalled	chr14:55126018-55138307	10.29
Adat2	118	44	1.966761	75	1.25	9.0728	22.98487	Stalled	chr10:13270712-13283182	10.471
Mxd4	118	0	1.966761	61	1.016667	21.5553	23.07518	Stalled	chr5:34519228-34532359	11.132
Cdc26	118	0	1.966761	187	3.116667	15.5718	20.78868	Stalled	chr4:62055622-62071657	14.036
Taf8	118	0	1.966761	345	5.75	7.36588	6.615084	Stalled	chr17:47624998-47641236	14.239
Fam98a	118	0	1.966761	162	2.7	14.5688	14.34582	Stalled	chr17:75936425-75953286	14.862
Adck2	118	0	1.966761	108	1.8	6.5321	29.40982	Stalled	chr6:39521874-39538768	14.895
Cdccl102a	118	0	1.966761	71	1.183333	0.951883	3.839855	Stalled	chr8:97426770-97443998	15.229
Prpf4	118	0	1.966761	314	5.233333	7.78603	16.78248	Stalled	chr4:62067816-62088024	18.209
Nutf2	118	0	1.966761	500	8.333333	5.15168	12.4097	Stalled	chr8:108382533-108404301	19.769
Impact	118	0	1.966761	439	7.316667	2.48314	6.355607	Stalled	chr18:13128760-13151457	20.698
Adsl	118	0	1.966761	574	9.566667	29.0143	9.261693	Stalled	chr15:80776948-80799803	20.856
Tmem194b	118	67	1.966761	499	8.316667	6.13733	14.25044	Stalled	chr1:52685548-52708763	21.216
Faah	118	0	1.966761	69	1.15	2.27301	5.444962	Stalled	chr4:115669260-115692507	21.248
Tstd2	118	0	1.966761	255	4.25	4.62996	30.93631	Stalled	chr4:46127618-46153347	23.73
Pex3	118	44	1.966761	127	2.116667	6.7005	37.60993	Stalled	chr10:13243751-13274948	29.198
Slc30a5	118	0	1.966761	469	7.816667	15.1285	19.28554	Stalled	chr13:101572602-101605382	30.781
Cd53	118	144	1.966761	401	6.683333	18.4117	4.354332	Stalled	chr3:106561778-106595067	31.29
Kif1c	118	0	1.966761	204	3.4	8.43475	31.40723	Stalled	chr11:70512049-70545472	31.424
4930562C15Rik	118	0	1.966761	91	1.516667	0.090374	0	Unclassified	chr16:4833415-4867691	32.277
Dctn4	118	0	1.966761	341	5.683333	6.55195	32.34372	Stalled	chr18:60683874-60718416	32.543
Limk1	118	0	1.966761	252	4.2	5.30095	4.005981	Stalled	chr5:135131908-135166460	32.553
3110049J23Rik	118	0	1.966761	41	0.683333	0.993911	86.50219	Stalled	chr10:62485259-62521560	34.302
Glyr1	118	0	1.966761	690	11.5	30.6334	21.77833	Stalled	chr16:5013994-5052003	36.01
Ubn1	118	0	1.966761	392	6.533333	10.2932	37.75652	Stalled	chr16:5048160-5086378	36.219
Slc25a25	118	0	1.966761	551	9.183333	5.22152	12.87367	Stalled	chr2:32270007-32308990	36.984
Pomt2	118	0	1.966761	189	3.15	4.30983	39.85655	Stalled	chr12:88447815-88490852	41.038
Agpat2	118	50	1.966761	178	2.966667	2.40507	9.477977	Stalled	chr5:101273247-101328121	52.875
Ankrd27	118	0	1.966761	302	5.033333	8.71086	20.70915	Stalled	chr7:36369265-36424256	52.992
D14Abb1e	118	0	1.966761	292	4.866667	1.94232	43.1898	Stalled	chr14:28240032-28296740	54.709
Nceh1	118	0	1.966761	482	8.033333	3.01822	19.1845	Stalled	chr3:27079925-27143833	61.909
Kif15	118	0	1.966761	768	12.8	7.61474	19.96456	Stalled	chr9:122858198-122927851	67.654
Zbtb40	118	0	1.966761	329	5.483333	3.52633	11.8136	Stalled	chr4:136535646-136606610	68.965
Myo5c	118	0	1.966761	228	3.8	0.148496	0.964432	Unclassified	chr9:75077820-75153257	73.438
Coro2b	118	0	1.966761	327	5.45	1.5263	2.62773	Unclassified	chr9:62267298-62386851	117.554
Rraga	117	0	1.950093	26	0.433333	49.0004	9.559188	Unclassified	chr4:86219576-86223185	1.61
Ddx28	117	0	1.950093	28	0.466667	15.6105	6.365592	Unclassified	chr8:108533516-108537386	1.871
Rpl37	117	0	1.950093	162	2.7	221.269	5.095763	Stalled	chr15:5064612-5069140	2.529
Tmem208	117	0	1.950093	57	0.95	24.537	9.490007	Stalled	chr8:107848263-107852955	2.693
Robld3	117	0	1.950093	10	0.166667	58.4502	21.25681	Stalled	chr3:88353740-88358849	3.11
Fam36a	117	0	1.950093	430	7.166667	6.96374	4.066805	Stalled	chr1:180247283-180252824	3.542
Snrnp25	117	0	1.950093	38	0.633333	84.6598	14.8137	Stalled	chr11:32103414-32108993	3.58
Pycr2	117	0	1.950093	130	2.166667	35.9567	4.408538	Stalled	chr1:182832404-182838218	3.815
Slc25a39	117	0	1.950093	50	0.833333	32.0401	16.38016	Stalled	chr11:102264296-102270831	4.536
Mad2l2	117	0	1.950093	90	1.5	17.89	6.744735	Stalled	chr4:147512598-147519805	5.208
Rab7l1	117	0	1.950093	24	0.4	15.7496	12.4072	Stalled	chr1:133761853-133769462	5.61
Ciao1	117	0	1.950093	149	2.483333	8.2505	8.428202	Stalled	chr2:127066673-127075552	6.88

Stx4a	117	0	1.950093	83	1.383333	51.8512	18.58221	Stalled	chr7:134983321-134992479	7.159
1700026L06Rik	117	0	1.950093	20	0.333333	0.381476	3.710345	Unclassified	chr2:28547599-28557171	7.573
Ndufc2	117	0	1.950093	79	1.316667	82.9365	17.66887	Stalled	chr7:104546512-104556309	7.798
Dbi	117	0	1.950093	138	2.3	86.5477	16.3918	Stalled	chr1:122009856-122019656	7.801
BC005624	117	0	1.950093	156	2.6	22.3289	6.282496	Stalled	chr2:30828355-30839406	9.052
Chchd4	117	0	1.950093	317	5.283333	20.4716	6.716711	Stalled	chr6:91414269-91425417	9.149
Tpra1	117	0	1.950093	93	1.55	9.71774	12.16537	Stalled	chr6:88850244-88862234	9.991
Theg	117	0	1.950093	41	0.683333	0.098001	0.381398	Unclassified	chr10:79039221-79051881	10.661
Usp2	117	0	1.950093	125	2.083333	2.28147	8.0002	Stalled	chr9:43891002-43903710	10.709
Mical1	117	0	1.950093	289	4.816667	18.2126	5.91971	Stalled	chr10:41194119-41206834	10.716
Haus4	117	0	1.950093	243	4.05	18.7935	18.5085	Stalled	chr14:55160622-55175198	12.577
Tmem127	117	0	1.950093	143	2.383333	8.68279	16.98673	Stalled	chr2:127071710-127086500	12.791
Asl	117	0	1.950093	121	2.016667	15.6139	11.4889	Stalled	chr5:130487372-130502201	12.83
BC048403	117	0	1.950093	171	2.85	4.36999	22.42383	Stalled	chr10:121174992-121189915	12.924
Prdm14	117	0	1.950093	25	0.416667	0.093911	1.687601	Unclassified	chr1:13103508-13119244	13.737
Lrrc29	117	0	1.950093	307	5.116667	0.853089	13.3449	Stalled	chr8:107836239-107852176	13.938
Zfp14	117	0	1.950093	43	0.716667	0.348769	20.92104	Stalled	chr7:30821377-30838415	15.039
Polg	117	0	1.950093	427	7.116667	16.0691	6.171762	Stalled	chr7:86594268-86613159	16.892
Slc9a3r1	117	0	1.950093	276	4.6	37.4604	15.5832	Stalled	chr11:115022654-115042492	17.839
Zbtb1	117	0	1.950093	438	7.3	6.21983	18.95933	Stalled	chr12:77469252-77489732	18.481
Dusp14	117	0	1.950093	94	1.566667	3.04163	7.670103	Stalled	chr11:83861546-83883859	20.314
2810004N23Rik	117	0	1.950093	246	4.1	21.6822	34.34764	Stalled	chr8:127363256-127388929	23.674
Ikbke	117	0	1.950093	257	4.283333	12.0343	6.226083	Stalled	chr1:133151178-133178140	24.963
Bpgm	117	0	1.950093	91	1.516667	6.42607	28.90615	Stalled	chr6:34424355-34455610	29.256
1810007M14Rik	117	0	1.950093	440	7.333333	9.21427	29.19745	Stalled	chr16:91014281-91046624	30.344
Trmprs4	117	0	1.950093	63	1.05	0.135682	1.625639	Unclassified	chr9:44980808-45014158	31.351
Fam108b	117	0	1.950093	347	5.783333	5.80978	18.38411	Stalled	chr19:21725798-21760127	32.33
Tmed8	117	0	1.950093	1204	20.06667	26.4008	3.786968	Stalled	chr12:88507191-88543179	33.989
Bfsp1	117	0	1.950093	111	1.85	0.318787	2.187723	Unclassified	chr2:143652263-143690909	36.647
Dhx40	117	0	1.950093	261	4.35	5.87644	16.9569	Stalled	chr11:86582350-86623162	38.813
Atad1	117	0	1.950093	570	9.5	16.09	33.40839	Stalled	chr19:32747052-32788788	39.737
Dars	117	0	1.950093	474	7.9	44.7845	41.13043	Stalled	chr1:130260284-130315993	53.71
D6Wsu116e	117	0	1.950093	340	5.666667	9.32145	28.07048	Stalled	chr6:116156050-116212688	54.639
Ap1b1	117	0	1.950093	1007	16.78333	21.3091	7.177084	Stalled	chr11:4884907-4942732	55.826
Nup188	117	0	1.950093	614	10.23333	10.1926	28.97332	Stalled	chr2:30139952-30199782	57.831
Limk2	117	0	1.950093	1001	16.68333	9.23734	12.97655	Stalled	chr11:3243299-3311238	65.94
Nid1	117	0	1.950093	85	1.416667	1.41008	0.464314	Unclassified	chr13:13527868-13604542	74.675
Ube2g1	117	0	1.950093	726	12.1	8.85527	37.64124	Stalled	chr11:72418762-72499983	79.222
Lmf1	117	0	1.950093	882	14.7	15.4078	16.26113	Stalled	chr17:25714118-25799668	83.551
Whsc11i	117	0	1.950093	1630	27.16667	15.3285	28.4517	Stalled	chr8:26710777-26830139	117.363
Fam178b	117	0	1.950093	224	3.733333	0.056647	0.695737	Unclassified	chr1:36619540-36742028	120.489
Slco3a1	117	0	1.950093	725	12.08333	1.55202	11.92952	Stalled	chr7:81420303-81701666	279.364
Elmo1	117	0	1.950093	6129	102.15	19.2082	15.26687	Stalled	chr13:20275293-20698394	421.102
Timm8b	116	0	1.933426	25	0.416667	37.9094	6.144172	Unclassified	chr9:50410005-50413425	1.421
2900092E17Rik	116	0	1.933426	95	1.583333	52.2184	2.435438	Stalled	chr7:134158564-134162866	2.303
Rpl15	116	0	1.933426	89	1.483333	0	10.02172	Stalled	chr14:19100336-19105500	3.165
Gpr18	116	50	1.933426	168	2.8	14.3499	3.140281	Stalled	chr14:122310655-122316996	4.342
Prdx2	116	0	1.933426	60	1	76.8564	13.01682	Stalled	chr8:87491546-87498212	4.667
Plk3	116	0	1.933426	224	3.733333	9.2024	4.95244	Stalled	chr4:116801259-116808557	5.299
Ccl22	116	0	1.933426	39	0.65	38.4728	1.830458	Stalled	chr8:97267583-97275288	5.706
Fgl2	116	0	1.933426	78	1.3	8.38099	12.65466	Stalled	chr5:20876490-20884204	5.715
1600002H07Rik	116	0	1.933426	55	0.916667	5.79399	9.396048	Stalled	chr17:24352000-24359714	5.715
Sifn1	116	0	1.933426	42	0.7	0.573031	0.308612	Unclassified	chr11:82928346-82936161	5.816
Tmed3	116	0	1.933426	36	0.6	18.1929	22.40679	Stalled	chr9:89594040-89601881	5.842
mmu-mir-22	116	46	1.933426	258	4.3	ND	ND	Elongating	chr11:75274041-75280192	6.152
Lhx1	116	0	1.933426	14	0.233333	0.493882	1.61518	Unclassified	chr11:84332880-84341036	6.157
Card9	116	0	1.933426	52	0.866667	1.77386	1.392259	Unclassified	chr2:26207831-26217067	7.237
Sdhd	116	0	1.933426	104	1.733333	37.3843	21.56058	Stalled	chr9:50404445-50413954	7.51
Qars	116	0	1.933426	146	2.433333	36.844	8.437851	Stalled	chr9:108408335-108418272	7.938
Kif20a	116	0	1.933426	310	5.166667	17.992	6.895422	Stalled	chr18:34782589-34792931	8.343
D330012F22Rik	116	0	1.933426	54	0.9	3.93137	31.57019	Stalled	chr7:87375778-87386306	8.529
Tmem120a	116	0	1.933426	72	1.2	4.78272	6.36444	Stalled	chr5:136211359-136222042	8.684
1700030J22Rik	116	0	1.933426	25	0.416667	1.38006	4.004558	Unclassified	chr8:119493498-119504843	9.346
Coq4	116	0	1.933426	71	1.183333	4.93951	4.588787	Stalled	chr2:29641782-29653263	9.482
Kdelr1	116	0	1.933426	138	2.3	31.6706	7.889646	Stalled	chr7:53126209-53139096	10.888
Trub2	116	0	1.933426	240	4	8.35694	4.468243	Stalled	chr2:29631630-29645191	11.562
Tnni1	116	0	1.933426	29	0.483333	2.30747	0.267122	Unclassified	chr1:137693997-137707566	11.57
Adamts14	116	0	1.933426	150	2.5	0.784032	1.260233	Elongating	chr3:95480126-95493781	11.656
Oas1c	116	0	1.933426	69	1.15	3.58129	22.26286	Stalled	chr5:121250207-121264523	12.317
Nkiras1	116	0	1.933426	120	2	2.45329	34.44851	Stalled	chr14:19101655-19116514	12.86
Rcc1	116	0	1.933426	577	9.616667	28.5295	6.718452	Stalled	chr4:131887838-131903577	13.74
Pdc2	116	0	1.933426	106	1.766667	20.7018	18.72359	Stalled	chr13:74440568-74456774	14.207
Slc25a44	116	0	1.933426	168	2.8	9.24082	8.036649	Stalled	chr3:88214419-88231061	14.643
Hmgcl	116	0	1.933426	255	4.25	17.2119	8.925601	Stalled	chr4:135500367-135518532	16.166
Ttc14	116	0	1.933426	234	3.9	4.87325	25.99901	Stalled	chr3:33697116-33715556	16.441
0610037P05Rik	116	0	1.933426	204	3.4	6.29437	20.2523	Stalled	chr16:14299336-14319425	18.09
Ehd2	116	0	1.933426	126	2.1	4.39179	2.811912	Elongating	chr7:16534335-16554884	18.55
Psm5	116	0	1.933426	217	3.616667	12.2926	34.09473	Stalled	chr2:34707608-34728482	18.875
Hsph1	116	0	1.933426	130	2.166667	24.5748	17.41796	Stalled	chr5:150419419-150440890	19.472
0610011L14Rik	116	0	1.933426	376	6.266667	8.29726	10.18876	Stalled	chr2:156371311-156394708	21.398
2400003C14Rik	116	0	1.933426	413	6.883333	16.3426	17.59215	Stalled	chr8:112195221-112219194	21.974
Nol11	116	0	1.933426	404	6.733333	9.25651	9.744715	Stalled	chr11:107027976-107052695	22.72
Morf41i	116	0	1.933426	567	9.45	7.25524	5.188548	Stalled	chr9:89986508-90011658	23.151
Paip2b	116	0	1.933426	201	3.35	6.21545	32.26538	Stalled	chr6:83756052-83783735	25.684
Ctcf1	116	0	1.933426	53	0.883333	0.11155	0.639595	Unclassified	chr2:172919109-172947026	25.918
Brd8	116	0	1.933426	483	8.05	25.9096	16.26262	Stalled	chr18:34758268-34786464	26.197

Entpd4	116	0	1.933426	242	4.033333	5.02753	13.8425	Stalled	chr14:69953207-69984799	29.593
Snrnp200	116	0	1.933426	553	9.216667	22.7631	9.569094	Stalled	chr2:127032139-127066187	32.049
Cnnp3	116	0	1.933426	138	2.3	0.105451	0.226119	Unclassified	chr2:120287328-120330649	41.322
Plekhhg3	116	0	1.933426	299	4.983333	1.92669	15.79907	Stalled	chr12:77632546-77680026	45.481
Cds2	116	0	1.933426	695	11.58333	9.37742	7.527016	Stalled	chr2:132086992-132137777	48.786
Phldb1	116	0	1.933426	215	3.583333	1.02138	4.554031	Stalled	chr9:44494390-44545277	48.888
Mapre3	116	0	1.933426	105	1.75	1.51276	3.889387	Unclassified	chr5:31115128-311168479	51.352
Fbxo42	116	0	1.933426	567	9.45	6.76285	16.48564	Stalled	chr4:140701836-140759977	56.142
Raver2	116	0	1.933426	270	4.5	0.109346	0.467363	Unclassified	chr4:100739642-100824975	83.334
Pcmttd1	116	0	1.933426	275	4.583333	2.93399	84.9445	Stalled	chr1:7077000-7163709	84.71
Znrf1	116	0	1.933426	593	9.883333	8.64142	14.39922	Stalled	chr8:114058539-114149930	89.392
Ly75	116	0	1.933426	2126	35.43333	12.3065	11.22656	Stalled	chr2:60131816-60223288	89.473
Il1r1	116	0	1.933426	151	2.516667	0.154927	0.747403	Unclassified	chr1:40279924-40373022	91.099
Cpped1	116	0	1.933426	409	6.816667	4.11917	38.52229	Stalled	chr16:11803813-11911516	105.704
Itsn2	116	0	1.933426	1521	25.35	20.5661	21.56321	Stalled	chr12:4597813-4720758	120.946
Ncoa2	116	0	1.933426	2353	39.21667	5.43783	16.45758	Stalled	chr1:13129239-13366164	234.926
Smg6	116	0	1.933426	1490	24.83333	4.2295	36.58055	Stalled	chr11:74737373-74977950	238.578
Hist1h4c	115	41	1.916759	0	0	0	374	Unclassified	chr13:23790006-23792318	0.313
1810046J19Rik	115	0	1.916759	8	0.133333	28.6442	5.141512	Unclassified	chr11:98299021-98302302	1.282
Dolk	115	0	1.916759	21	0.35	10.9443	17.4701	Stalled	chr2:30139748-30143874	2.127
Nhlrc1	115	0	1.916759	2	0.033333	0.879668	13.35641	Stalled	chr13:47107926-47112219	2.294
1110008P14Rik	115	0	1.916759	74	1.233333	13.7716	2.443178	Stalled	chr2:32234620-32239435	2.816
G630016D24Rik	115	0	1.916759	110	1.833333	7.97785	0.171902	Stalled	chr14:52634539-52639462	2.924
Rpl27a	115	0	1.916759	247	4.116667	102.605	5.728706	Stalled	chr7:116660708-116665883	3.176
Rheb1c	115	0	1.916759	52	0.866667	6.04768	9.229714	Stalled	chr15:98708191-98713845	3.655
Rpl19	115	0	1.916759	251	4.183333	0	5.046181	Stalled	chr11:97886023-97891806	3.784
Rnlz	115	0	1.916759	90	1.5	10.975	4.409375	Stalled	chr2:26203638-26209630	3.993
Pars2	115	0	1.916759	76	1.266667	3.24253	10.63347	Stalled	chr4:106321673-106327887	4.215
Ptgir	115	0	1.916759	203	3.383333	4.1319	0.993232	Elongating	chr7:17489838-17496254	4.417
Sdc20	115	0	1.916759	146	2.433333	62.8277	6.890581	Stalled	chr4:118105505-118111948	4.444
C135a4	115	0	1.916759	91	1.516667	17.174	14.57302	Stalled	chr18:36836868-36843516	4.649
Klf4	115	0	1.916759	14	0.233333	1.2656	23.66412	Stalled	chr4:55540008-55547347	5.34
Rbm7	115	0	1.916759	59	0.983333	16.1792	42.28961	Stalled	chr9:48296813-48305410	6.598
Ccdc86	115	0	1.916759	225	3.75	12.8372	4.567866	Stalled	chr19:11015970-11025756	7.787
Apbb3	115	0	1.916759	69	1.15	9.70467	35.85155	Stalled	chr18:36830812-36841020	8.209
Terf2ip	115	0	1.916759	27	0.45	11.0402	45.53513	Stalled	chr8:114533258-114544428	9.171
Upk1a	115	0	1.916759	63	1.05	0.288791	0.587246	Unclassified	chr7:31388110-31399493	9.384
Ddx49	115	0	1.916759	277	4.616667	24.2765	7.337395	Stalled	chr8:72816764-72828351	9.588
Sectm1b	115	0	1.916759	20	0.333333	0.016559	0.94154	Unclassified	chr11:120914736-120926883	10.148
Cope	115	0	1.916759	237	3.95	110.133	9.161864	Stalled	chr8:72824683-72836889	10.207
Cript	115	0	1.916759	47	0.783333	6.17152	40.28525	Stalled	chr17:87422900-87435148	10.249
Tas1r1	115	0	1.916759	28	0.466667	2.22694	1.274416	Unclassified	chr4:151402022-151414599	10.578
Gnpda1	115	0	1.916759	152	2.533333	14.2932	10.17102	Stalled	chr18:38487190-38500647	11.458
Tnfaiip811	115	0	1.916759	124	2.066667	2.69859	6.615873	Stalled	chr17:56299913-56313378	11.466
Pqlc2	115	0	1.916759	159	2.65	3.0919	10.41579	Stalled	chr4:138853919-138868615	12.697
Soat2	115	0	1.916759	43	0.716667	0.681039	4.757049	Stalled	chr15:101979005-101993867	12.863
Dnalc4	115	0	1.916759	105	1.75	5.6865	9.347291	Stalled	chr15:79591878-79606897	13.02
Dtwd1	115	0	1.916759	61	1.016667	3.35184	48.29111	Stalled	chr2:125975876-125991012	13.137
Armcc6	115	0	1.916759	100	1.666667	7.3225	47.0904	Stalled	chr8:72744091-72760321	14.231
Oasl2	115	0	1.916759	148	2.466667	5.15053	4.497255	Stalled	chr5:115344942-115362254	15.313
Fcgr2b	115	0	1.916759	261	4.35	27.6208	4.530752	Stalled	chr1:172890688-172908202	15.515
Ddx24	115	0	1.916759	744	12.4	41.2877	5.566612	Stalled	chr12:104646185-104665990	17.806
Ifrd1	115	0	1.916759	510	8.5	7.62507	18.12207	Stalled	chr12:40929716-40951776	20.061
3110002H16Rik	115	0	1.916759	301	5.016667	6.95084	15.87821	Stalled	chr18:12325238-12348478	21.241
Cecr5	115	0	1.916759	245	4.083333	8.49664	16.75162	Stalled	chr6:120459511-120483317	21.807
Dnttip1	115	0	1.916759	431	7.183333	23.326	4.079826	Stalled	chr2:164569514-164593719	22.206
Zfp142	115	0	1.916759	339	5.65	4.80479	18.02399	Stalled	chr1:74611701-74636602	22.902
Tmem50b	115	0	1.916759	347	5.783333	12.3289	8.949509	Stalled	chr16:91574752-91599925	23.174
Ncapd2	115	0	1.916759	651	10.85	47.9351	10.59352	Stalled	chr6:125118024-125143604	23.581
Tfrc	115	0	1.916759	251	4.183333	9.27975	31.60663	Stalled	chr16:32607106-32632876	23.771
Pigf	115	0	1.916759	164	2.733333	5.15125	36.21207	Stalled	chr17:87396598-87426741	28.144
Kpnb1	115	0	1.916759	1450	24.16667	49.5207	8.98046	Stalled	chr11:97021023-97051206	28.184
Ube2d3	115	0	1.916759	676	11.26667	26.202	24.63684	Stalled	chr3:135099722-135130142	28.421
Sfrs14	115	0	1.916759	674	11.23333	8.9584	14.41954	Stalled	chr8:72756124-72787004	28.881
Bach1	115	0	1.916759	552	9.2	2.55637	10.55339	Stalled	chr16:87697198-87733591	34.394
Nisch	115	0	1.916759	982	16.36667	31.3736	7.962238	Stalled	chr14:31984113-32022012	35.9
Nmt1	115	0	1.916759	906	15.1	54.4197	8.452445	Stalled	chr11:102887875-102927419	37.545
Qrich1	115	0	1.916759	966	16.1	11.4644	15.1533	Stalled	chr9:108417417-108462498	43.082
Fanca	115	0	1.916759	553	9.216667	5.62247	24.16189	Stalled	chr8:125792143-125844476	50.334
Nrd1	115	0	1.916759	537	8.95	29.3993	31.34174	Stalled	chr4:108671409-108734376	60.968
Lpar3	115	0	1.916759	82	1.366667	0.159305	3.075348	Unclassified	chr3:145881924-145949178	65.255
Ap2a2	115	0	1.916759	571	9.516667	9.73904	17.10864	Stalled	chr7:148746078-148818910	70.833
Rsu1	115	0	1.916759	551	9.183333	11.0799	29.08397	Stalled	chr2:12998635-13194905	194.271
Gsg1l	115	0	1.916759	309	5.15	0.088858	0.396477	Unclassified	chr7:133021932-133227925	203.994
Rapgef5	115	0	1.916759	1955	32.58333	1.94461	0	Stalled	chr12:118752951-118995451	240.501
2310039H08Rik	114	0	1.900091	0	0	28.2118	425	Unclassified	chr17:46907583-46910356	0.774
Scgb1c1	114	0	1.900091	1	0.016667	0	1.537313	Unclassified	chr7:148029463-148032668	1.206
Spsb2	114	0	1.900091	73	1.216667	7.39672	0.568035	Elongating	chr6:124756958-124760632	1.675
Ubb	114	0	1.900091	20	0.333333	300.286	11.96475	Unclassified	chr11:62363005-62366714	1.71
1110038F14Rik	114	0	1.900091	3	0.05	36.9079	38.31821	Stalled	chr15:76776973-76781161	2.189
Ndufa4l2	114	0	1.900091	198	3.3	0.239807	0.494822	Stalled	chr10:126949994-126954210	2.217
Fut1	114	0	1.900091	20	0.333333	1.34207	5.02552	Stalled	chr7:52870975-52876427	3.453
Myd88	114	0	1.900091	69	1.15	27.4956	6.823965	Stalled	chr9:119245105-119251158	4.054
Rrp8	114	0	1.900091	93	1.55	10.5849	8.002264	Stalled	chr7:112880722-112887014	4.293
Fuz	114	0	1.900091	196	3.266667	13.3302	2.914336	Stalled	chr7:52149448-52155993	4.546
Dhrs13	114	0	1.900091	56	0.933333	3.07099	8.270936	Stalled	chr11:77843814-77851366	5.553

9130011J15Rik	114	0	1.900091	114	1.9	6.37809	12.61458	Stalled	chr8:75089096-75096947	5.852
Ilk	114	0	1.900091	217	3.616667	22.2031	5.665494	Stalled	chr7:112883238-112891439	6.202
Arl5c	114	0	1.900091	152	2.533333	26.1716	2.52067	Elongating	chr11:97850893-97859487	6.595
Phospho1	114	0	1.900091	118	1.966667	29.1126	5.008416	Stalled	chr11:95683813-95693453	7.641
Gpr65	114	0	1.900091	260	4.333333	5.68652	1.228267	Elongating	chr12:99504866-99514842	7.977
Abhd4	114	0	1.900091	47	0.783333	3.50403	9.684446	Stalled	chr14:54876971-54888840	9.87
Mphosph6	114	0	1.900091	218	3.633333	13.0533	10.8677	Stalled	chr8:120315544-120327829	10.286
Zfp87	114	0	1.900091	71	1.183333	3.51412	23.61252	Stalled	chr13:67616717-67629167	10.451
Harbi1	114	0	1.900091	42	0.7	6.13887	35.5891	Stalled	chr2:91549106-91561723	10.618
Bub3	114	0	1.900091	290	4.833333	52.7595	8.91752	Stalled	chr7:138701904-138715412	11.509
Glipr1	114	0	1.900091	357	5.95	71.9082	2.29408	Elongating	chr10:111422503-111436320	11.818
5830415F09Rik	114	0	1.900091	107	1.783333	3.69308	60.12579	Stalled	chr4:46389846-46404295	12.45
Nop2	114	0	1.900091	684	11.4	33.695	8.359698	Stalled	chr6:125079900-125094771	12.872
Vps11	114	0	1.900091	146	2.433333	9.92459	12.04654	Stalled	chr9:44156187-44171753	13.567
Ccs	114	0	1.900091	83	1.383333	16.1137	8.777486	Stalled	chr19:4825365-4841322	13.958
Sgol1	114	0	1.900091	183	3.05	4.39003	27.74431	Stalled	chr17:53814111-53830640	14.53
Mib2	114	0	1.900091	184	3.066667	9.41667	3.130433	Stalled	chr4:155028580-155045336	14.757
Eaf1	114	0	1.900091	238	3.966667	10.8539	17.73262	Stalled	chr14:32306264-32323043	14.78
BC003267	114	0	1.900091	108	1.8	2.90737	26.41281	Stalled	chr8:4611169-4630231	17.063
2810021J22Rik	114	0	1.900091	76	1.266667	0.774327	13.28556	Stalled	chr11:58678741-58697840	17.1
Mdc1	114	0	1.900091	201	3.35	4.79929	18.81336	Stalled	chr17:35976442-35996615	18.174
Exoc7	114	0	1.900091	172	2.866667	6.76482	10.65967	Stalled	chr11:116149311-116170052	18.742
Tead3	114	0	1.900091	898	14.96667	0.250242	0.178127	Stalled	chr17:28468619-28489750	19.132
Lipp	114	0	1.900091	147	2.45	2.87298	17.33372	Stalled	chr18:75098975-75122917	21.943
Cpz	114	0	1.900091	34	0.566667	0.053082	0	Unclassified	chr5:35844866-35870275	23.41
Bruno15	114	0	1.900091	60	1	0.472949	1.09031	Unclassified	chr10:80921972-80947454	23.483
Ywhaz	114	0	1.900091	1485	24.75	42.8017	5.555588	Stalled	chr15:36700018-36726293	24.276
4930455C21Rik	114	0	1.900091	172	2.866667	8.85292	60.83013	Stalled	chr16:38497924-38524747	24.824
Max	114	0	1.900091	507	8.45	36.285	11.60704	Stalled	chr12:78038255-78065235	24.981
Copz1	114	56	1.900091	334	5.566667	28.8491	12.25499	Stalled	chr15:103101348-103130295	26.948
Terf2	114	0	1.900091	533	8.883333	16.4737	7.341146	Stalled	chr8:109593301-109622445	27.145
Noc3l	114	0	1.900091	255	4.25	4.69023	16.36978	Stalled	chr19:38862617-38895727	31.111
Pigg	114	0	1.900091	201	3.35	2.29503	53.20263	Stalled	chr5:108739943-108777798	35.856
D2Ert391e	114	0	1.900091	300	5	9.68246	20.24428	Stalled	chr2:91514781-91552733	35.953
Gosr1	114	0	1.900091	467	7.783333	4.44389	10.79461	Stalled	chr11:76540103-76579057	36.955
1300002K09Rik	114	0	1.900091	72	1.2	0.071083	0.679662	Unclassified	chr4:45859818-45899880	38.063
Plaa	114	0	1.900091	245	4.083333	6.34422	27.88742	Stalled	chr4:94231829-94271938	38.11
Sec23ip	114	0	1.900091	353	5.883333	10.9542	29.52459	Stalled	chr7:135886383-13592347	39.965
2210012G02Rik	114	0	1.900091	322	5.366667	3.0132	33.00733	Stalled	chr4:106806766-106852917	44.206
Phf12	114	0	1.900091	926	15.43333	21.8719	16.28193	Stalled	chr11:77794317-77844035	47.719
Lrrn2	114	0	1.900091	93	1.55	0.019431	1.546239	Unclassified	chr1:134774931-134836534	59.604
Saps2	114	0	1.900091	648	10.8	4.96312	13.68475	Stalled	chr15:89039989-89116692	74.704
B4galnt3	114	0	1.900091	127	2.116667	0.307315	1.656297	Unclassified	chr6:120153827-120246577	90.751
Wdfy2	114	0	1.900091	799	13.31667	14.0447	9.278537	Stalled	chr14:63454526-63575723	119.198
Lrrc28	114	0	1.900091	339	5.65	1.39333	106.6493	Stalled	chr7:74658296-74792122	131.827
Zfat	114	0	1.900091	520	8.666667	1.43881	81.77675	Stalled	chr15:67915300-68092418	175.119
Tiam2	114	0	1.900091	260	4.333333	0.275362	5.094687	Unclassified	chr17:3324572-3519397	192.826
Dysf	114	0	1.900091	261	4.35	0.097714	0.871239	Unclassified	chr6:83956583-84161036	202.454
Id2	113	0	1.883424	8	0.133333	13.2703	27.02851	Stalled	chr12:25778663-25782957	2.295
C030006K11Rik	113	0	1.883424	90	1.5	0	3.899038	Stalled	chr15:76551895-76556275	2.381
2810405K02Rik	113	0	1.883424	6	0.1	5.05986	14.8457	Stalled	chr4:154270538-154275152	2.615
Ube2m	113	0	1.883424	75	1.25	88.4552	10.11827	Stalled	chr7:13620587-13625327	2.741
0610009B22Rik	113	0	1.883424	12	0.2	8.2565	46.91229	Stalled	chr11:51498886-51504136	3.251
Chrac1	113	0	1.883424	89	1.483333	36.1991	18.05449	Stalled	chr15:72918841-72924505	3.665
Scrn2	113	0	1.883424	21	0.35	8.26476	5.763412	Stalled	chr11:96889265-96895272	4.008
Tmed4	113	0	1.883424	25	0.416667	19.3783	22.55556	Stalled	chr11:6170716-6176840	4.125
Adprhl2	113	0	1.883424	149	2.483333	19.2677	6.814038	Stalled	chr4:125993594-126000947	5.354
Mad2l1	113	0	1.883424	51	0.85	22.2034	24.69293	Stalled	chr6:66483461-66490985	5.525
Hic1	113	0	1.883424	200	3.333333	1.27181	0.733512	Stalled	chr11:74978066-74985757	5.692
Fbxo2	113	0	1.883424	17	0.283333	1.94161	4.368535	Stalled	chr4:147532776-147540526	5.751
Gba	113	0	1.883424	190	3.166667	11.5113	0.610382	Stalled	chr3:89004849-89012603	5.755
Thap1	113	0	1.883424	65	1.083333	6.3031	32.26097	Stalled	chr8:27266640-27274623	5.984
Arl10	113	0	1.883424	93	1.55	4.6016	2.189979	Elongating	chr13:54674373-54682488	6.116
Sf3a2	113	0	1.883424	308	5.133333	44.3604	10.30546	Stalled	chr10:80259479-80267667	6.189
Tmem126a	113	0	1.883424	188	3.133333	10.8757	7.217088	Stalled	chr7:97599221-97607718	6.498
Trim17	113	0	1.883424	137	2.283333	0.213605	0.627648	Stalled	chr11:58775282-58785231	7.95
Trp53inp2	113	0	1.883424	142	2.366667	5.78854	7.368809	Stalled	chr2:155205591-155215583	7.993
Tfpt	113	0	1.883424	185	3.083333	25.308	7.077422	Stalled	chr7:3571925-3583486	9.562
Prpf19	113	0	1.883424	233	3.883333	41.7951	9.15551	Stalled	chr19:10967781-10980021	10.241
Oxsm	113	0	1.883424	234	3.9	2.67897	9.978415	Stalled	chr14:17071172-17084322	11.151
Pcgf2	113	0	1.883424	107	1.783333	1.20478	4.264013	Stalled	chr11:97550136-97563811	11.676
Stard4	113	0	1.883424	203	3.383333	25.2335	14.83119	Stalled	chr18:33361074-33375470	12.397
Park7	113	0	1.883424	233	3.883333	115.52	13.38952	Stalled	chr4:150271241-150286030	12.79
Psmk3	113	0	1.883424	421	7.016667	75.9543	7.425337	Stalled	chr11:98541867-98557292	13.426
Caln2	113	0	1.883424	292	4.866667	57.9805	21.94055	Stalled	chr17:87832740-87848275	13.536
Itpa	113	0	1.883424	288	4.8	12.5628	9.004405	Stalled	chr2:130491576-130507350	13.775
Cabyr	113	0	1.883424	31	0.516667	0.122958	56.36751	Stalled	chr18:12897863-12913651	13.789
Mavs	113	0	1.883424	150	2.5	7.86352	16.45734	Stalled	chr2:131057873-131073760	13.888
Mlec	113	0	1.883424	568	9.466667	45.8634	8.559211	Stalled	chr5:115592989-115610185	15.197
Tmem111	113	0	1.883424	242	4.033333	19.461	11.06211	Stalled	chr6:113464880-113483632	16.753
Acat2	113	0	1.883424	179	2.983333	46.8502	34.44689	Stalled	chr17:13135907-13155591	17.685
Ddx17	113	0	1.883424	683	11.38333	76.9931	11.62341	Stalled	chr15:79358125-79378989	18.865
Prr11	113	0	1.883424	206	3.433333	5.00972	4.545778	Stalled	chr11:86902657-86924216	19.56
Cops3	113	0	1.883424	554	9.233333	21.963	16.66363	Stalled	chr11:59631305-59655269	21.965
Ddx21	113	0	1.883424	1173	19.55	50.896	9.133141	Stalled	chr10:62042994-62067046	22.053
Plscr1	113	0	1.883424	247	4.116667	11.5698	12.97895	Stalled	chr9:92143031-92167399	22.369

Rbm34	113	0	1.883424	372	6.2	6.415	17.40253	Stalled	chr8:129471072-129496979	23.908
Os9	113	0	1.883424	634	10.56667	79.5598	5.298923	Stalled	chr10:126531315-126560216	26.902
Smad7	113	0	1.883424	659	10.98333	5.9869	10.1197	Stalled	chr18:75525018-75555588	28.571
Olfml2a	113	0	1.883424	60	1	0.787387	3.781479	Unclassified	chr2:38785499-38816105	28.607
Finc	113	0	1.883424	65	1.083333	0.086652	0.598186	Unclassified	chr6:29381152-29411888	28.737
Azin1	113	0	1.883424	793	13.21667	13.9908	20.10105	Stalled	chr15:38417184-38451021	31.838
Tubgcp2	113	0	1.883424	268	4.466667	8.83041	36.91102	Stalled	chr7:147181853-147224249	40.397
Rbms2	113	0	1.883424	385	6.416667	4.47865	0	Stalled	chr10:127566525-127619353	50.829
Btbd10	113	0	1.883424	130	2.166667	4.69684	132.9705	Stalled	chr7:120459157-120514853	53.697
Slc37a1	113	0	1.883424	388	6.466667	1.87965	10.17602	Stalled	chr17:31430427-31487643	55.217
Ube2r2	113	0	1.883424	614	10.23333	14.9298	11.60055	Stalled	chr4:41081053-41140403	57.351
Dhx35	113	0	1.883424	693	11.55	4.60308	10.32505	Stalled	chr2:158618555-158683950	63.396
Fam126b	113	0	1.883424	173	2.883333	0.627057	33.45089	Stalled	chr1:58579649-58645177	63.529
Ehd4	113	0	1.883424	367	6.116667	10.4533	27.05788	Stalled	chr2:119915222-119982311	65.09
Fbxw4	113	35	1.883424	379	6.316667	5.05054	43.11409	Stalled	chr19:45652746-45736683	81.938
Spred2	113	0	1.883424	1129	18.81667	3.56017	10.53852	Stalled	chr11:19822444-19922600	98.157
Rab31	113	0	1.883424	458	7.633333	2.72025	10.17489	Stalled	chr17:66001065-66124092	121.028
Adcy9	113	0	1.883424	210	3.5	0.370866	3.073949	Unclassified	chr16:4287544-4421587	132.044
Bmp6	113	0	1.883424	361	6.016667	0.138242	1.190738	Unclassified	chr13:38435584-38591597	154.014
Cpeb3	113	0	1.883424	741	12.35	3.22853	22.57598	Stalled	chr19:37095780-37283783	186.004
Hist1h2bn	112	44	1.866756	0	0	0	395	Unclassified	chr13:21843991-21846372	0.382
Hist2h2ab	112	0	1.866756	0	0	0	371	Unclassified	chr3:96021838-96024231	0.394
Ovca2	112	0	1.866756	68	1.133333	13.9727	5.905606	Stalled	chr11:74989444-74994310	2.867
Gpt	112	0	1.866756	100	1.666667	3.38982	0.319106	Stalled	chr15:76525193-76530105	2.913
Comtd1	112	0	1.866756	331	5.516667	5.58076	1.231643	Elongating	chr14:22665082-22670132	3.051
Bcs11	112	0	1.866756	103	1.716667	7.06218	6.860827	Stalled	chr1:74632934-74639017	4.084
Ormdl2	112	0	1.866756	52	0.866667	7.98973	14.27519	Stalled	chr10:128254512-128260687	4.176
Jrk	112	0	1.866756	152	2.533333	1.50971	5.384551	Stalled	chr15:74534992-74541752	4.761
Cd24a	112	0	1.866756	131	2.183333	47.9708	9.43373	Stalled	chr10:43296974-43304071	5.098
Chchd2	112	0	1.866756	89	1.483333	54.8438	8.952285	Stalled	chr5:130357031-130365340	6.31
Gm11346	112	0	1.866756	78	1.3	0.540891	2.967983	Stalled	chr13:24689995-24698636	6.642
Mknk2	112	0	1.866756	479	7.983333	108.446	0.932469	Elongating	chr10:80128073-80136721	6.649
Mri1	112	0	1.866756	97	1.616667	16.6855	9.623724	Stalled	chr8:86774475-86783223	6.749
1810031K17Rik	112	0	1.866756	66	1.1	16.6696	17.1458	Stalled	chr1:75131788-75140942	7.155
Slc30a3	112	0	1.866756	14	0.233333	0.236984	1.257993	Unclassified	chr5:31388478-31397900	7.423
Anapc13	112	0	1.866756	83	1.383333	73.3384	44.03529	Stalled	chr9:102526625-102536573	7.949
Mrip150	112	0	1.866756	79	1.316667	9.23201	12.12099	Stalled	chr4:49525468-49535955	8.488
Grpel1	112	0	1.866756	297	4.95	13.8768	8.56991	Stalled	chr5:36805833-36816726	8.894
Klf6	112	0	1.866756	180	3	4.91363	17.88155	Stalled	chr13:5858734-5869639	8.906
Fam101a	112	0	1.866756	297	4.95	0.295164	0.238191	Stalled	chr5:125481844-125492917	9.074
Mesdc2	112	0	1.866756	121	2.016667	7.72613	15.54823	Stalled	chr7:91038509-91050042	9.534
Sdf2	112	0	1.866756	94	1.566667	39.9174	26.06112	Stalled	chr11:78057247-78068997	9.751
Pmm1	112	0	1.866756	140	2.333333	34.0881	8.423526	Stalled	chr15:81781535-81793297	9.763
Zfp639	112	0	1.866756	176	2.933333	7.65719	12.62255	Stalled	chr3:32407513-32419754	10.242
Zfp189	112	0	1.866756	30	0.5	6.37022	33.21129	Stalled	chr4:49532088-49544417	10.33
Zbtb26	112	0	1.866756	81	1.35	2.67591	29.22308	Stalled	chr2:37287687-37300641	10.955
Tcirg1	112	0	1.866756	247	4.116667	25.7351	5.413501	Stalled	chr19:3896049-3909133	11.085
Pigv	112	0	1.866756	157	2.616667	4.47014	23.10863	Stalled	chr4:133217340-133230562	11.223
Inpp5e	112	0	1.866756	489	8.15	6.24156	3.504059	Stalled	chr2:26251768-26266708	12.941
Tenc1	112	0	1.866756	133	2.216667	0.274929	0.256129	Stalled	chr15:101931418-101946832	13.415
Zfp457	112	0	1.866756	17	0.283333	1.62622	38.93702	Stalled	chr13:67393386-67409348	13.963
C330006K01Rik	112	0	1.866756	176	2.933333	4.98525	15.03642	Stalled	chr5:142937884-142954669	14.786
Myl12b	112	0	1.866756	195	3.25	27.4734	17.87804	Stalled	chr17:71323302-71341856	16.555
Loxl3	112	0	1.866756	504	8.4	0.480249	0.498962	Stalled	chr6:82982217-83002558	18.342
Kif18b	112	0	1.866756	450	7.5	13.9836	9.926762	Stalled	chr11:102766832-102788438	19.607
Mfsd11	112	0	1.866756	100	1.666667	3.0415	39.6668	Stalled	chr11:116713328-116736951	21.624
Clns1a	112	0	1.866756	236	3.933333	34.7467	19.93849	Stalled	chr7:104843200-104867389	22.19
Cadm4	112	0	1.866756	113	1.883333	2.03991	2.718746	Stalled	chr7:25265041-25289552	22.512
Zcchc8	112	0	1.866756	307	5.116667	12.0824	13.0301	Stalled	chr5:124148310-124173053	22.744
Dgke	112	0	1.866756	333	5.55	5.11715	15.41664	Stalled	chr11:88898895-88924062	23.168
Atp6v0e	112	0	1.866756	293	4.883333	48.8135	15.10515	Stalled	chr17:26811340-26836591	23.252
Rnf168	112	0	1.866756	255	4.25	9.52599	24.71768	Stalled	chr16:32275546-32301525	23.98
Oas3	112	0	1.866756	270	4.5	5.69881	5.056731	Stalled	chr5:121203106-121229668	24.563
Dync1li2	112	0	1.866756	368	6.133333	8.58524	8.262185	Stalled	chr8:106941573-106968947	25.375
Exd1	112	0	1.866756	52	0.866667	2.38514	59.10634	Stalled	chr2:119345139-119375363	28.225
Espn	112	0	1.866756	133	2.216667	2.06027	0.74285	Unclassified	chr4:151494984-151528316	31.333
Ahcy1	112	0	1.866756	325	5.416667	18.2424	15.69647	Stalled	chr3:107466037-107501466	33.43
Cdk7	112	0	1.866756	470	7.833333	2.73005	14.26938	Stalled	chr13:101466979-101502897	33.919
Ipo7	112	0	1.866756	655	10.91667	21.2114	16.74249	Stalled	chr7:117159938-117198628	36.691
Supt6h	112	0	1.866756	801	13.35	21.2374	13.34637	Stalled	chr11:78020250-78061205	38.956
1500003O03Rik	112	0	1.866756	250	4.166667	18.0888	22.06121	Stalled	chr2:119371442-119412758	39.317
Acot12	112	0	1.866756	110	1.833333	0	0.851968	Unclassified	chr13:91879125-91925753	44.629
Nup133	112	0	1.866756	908	15.13333	9.06405	14.1838	Stalled	chr8:126421022-126475165	52.144
Cry1	112	0	1.866756	222	3.7	7.59216	60.30302	Stalled	chr10:84594444-84649799	53.356
Sarnp	112	0	1.866756	457	7.166667	18.841	26.36916	Stalled	chr10:128256826-128314693	55.868
Fam185a	112	0	1.866756	296	4.933333	6.58189	11.17363	Stalled	chr5:20928720-20987942	57.223
Dtwd2	112	0	1.866756	192	3.2	1.90385	83.79218	Stalled	chr18:49855798-49917255	59.458
Nfatc3	112	0	1.866756	482	8.033333	9.4278	34.84534	Stalled	chr8:108581502-108654437	70.936
Creb1	112	0	1.866756	604	10.06667	5.66353	50.01266	Stalled	chr1:64577377-64651122	71.746
Ubn2	112	0	1.866756	277	4.616667	2.77052	69.31981	Stalled	chr6:38381924-38462763	78.84
Pde9a	112	0	1.866756	153	2.55	0.223866	1.471879	Unclassified	chr17:31521178-31613254	90.077
Lars2	112	0	1.866756	447	7.45	81.6192	18.01054	Stalled	chr9:123274057-123371782	95.726
Rabgap1	112	0	1.866756	838	13.96667	3.91624	32.31473	Stalled	chr2:37296804-37421957	123.154
Zfp277	112	0	1.866756	368	6.133333	4.46184	17.72536	Stalled	chr12:41041632-41174377	130.746
Hist2h2ac	111	0	1.850089	0	0	0	469	Unclassified	chr3:96024377-96026767	0.391
Cox5b	111	0	1.850089	21	0.35	141.719	7.58581	Unclassified	chr1:36746331-36750233	1.903

Hist3h2a	111	0	1.850089	41	0.683333	14.306	10.73813	Unclassified	chr11:58766186-58770176	1.991
Metrn	111	0	1.850089	19	0.316667	19.8835	4.685485	Stalled	chr17:25931515-25935990	2.476
2310016M24Rik	111	0	1.850089	32	0.533333	36.7782	13.51313	Stalled	chr15:99554048-99558567	2.52
Sac3d1	111	0	1.850089	38	0.633333	20.4425	12.48504	Stalled	chr19:6116003-6120586	2.584
Rpl30	111	0	1.850089	102	1.7	0	6.679172	Stalled	chr15:34370262-34374980	2.719
Mmp23	111	0	1.850089	132	2.2	0.312811	0.5307	Stalled	chr4:155024763-155029493	2.731
Gm15772	111	0	1.850089	161	2.683333	0	4.110343	Stalled	chr11:68713090-68718036	2.947
Rpl26	111	0	1.850089	162	2.7	625.203	4.108922	Stalled	chr11:68713067-68718036	2.97
Slamf9	111	0	1.850089	1	0.016667	2.19389	5.377909	Unclassified	chr1:174403490-174408540	3.051
Reep4	111	0	1.850089	61	1.016667	25.1246	5.146831	Stalled	chr14:70943429-70948739	3.311
Tubb2b	111	0	1.850089	2	0.033333	9.21694	21.60074	Stalled	chr13:34218876-34224223	3.348
Rap2b	111	0	1.850089	32	0.533333	8.26018	14.7189	Stalled	chr3:61166428-61172625	4.198
Rnf39	111	0	1.850089	133	2.216667	1.58604	0.115002	Stalled	chr17:37077995-37084931	4.937
Kbtbd4	111	0	1.850089	170	2.833333	8.99648	6.858928	Stalled	chr2:90742942-90750717	5.776
Irgm1	111	0	1.850089	203	3.383333	11.8455	5.41511	Stalled	chr11:48678750-48686848	6.099
Ict1	111	0	1.850089	99	1.65	28.9793	11.57883	Stalled	chr11:115263079-115272227	7.149
BC026590	111	0	1.850089	111	1.85	5.97438	15.36338	Stalled	chr4:56813200-56822477	7.278
Hapl4	111	0	1.850089	19	0.316667	0.53043	0.750148	Unclassified	chr8:72605427-72614761	7.335
Zbtb48	111	0	1.850089	193	3.216667	5.73341	7.590609	Stalled	chr4:151393884-151403780	7.897
Miip	111	0	1.850089	95	1.583333	16.1452	11.71278	Stalled	chr4:147234887-147244828	7.942
Calm3	111	0	1.850089	342	5.7	142.703	4.006421	Stalled	chr7:17500727-17511381	8.655
Cam1	111	0	1.850089	58	0.966667	13.6279	30.02245	Stalled	chr13:55722365-55733777	9.413
Ndufs3	111	0	1.850089	165	2.75	35.9875	13.46709	Stalled	chr2:90734792-90746878	10.087
Dusp15	111	0	1.850089	20	0.333333	0.189323	1.619566	Unclassified	chr2:152766737-152779318	10.582
Echs1	111	0	1.850089	48	0.8	9.72924	37.49516	Stalled	chr7:147291621-147304322	10.702
Cpsf4l	111	0	1.850089	42	0.7	0.244088	1.026264	Unclassified	chr11:11359485-113573331	11.847
Fam96a	111	0	1.850089	142	2.366667	28.4861	10.96207	Stalled	chr9:65972417-65986775	12.359
Tceb1	111	0	1.850089	220	3.666667	16.0086	17.36801	Stalled	chr1:16632845-16648946	14.102
Csdc2	111	0	1.850089	144	2.4	0.473725	0.838704	Stalled	chr15:81765188-81781370	14.183
Mdh1	111	0	1.850089	129	2.15	38.9215	11.73377	Stalled	chr11:21456694-21473937	15.244
Ddx23	111	0	1.850089	474	7.9	33.5792	7.2835	Stalled	chr15:98475937-98495320	17.384
Kars	111	0	1.850089	408	6.8	88.0784	7.741399	Stalled	chr8:114517339-114537205	17.867
Osbp17	111	0	1.850089	279	4.65	6.85441	9.694643	Stalled	chr11:96910133-96930218	18.086
Anp32e	111	0	1.850089	545	9.083333	84.5018	9.3858	Stalled	chr3:95731179-95751308	18.13
Aph1c	111	0	1.850089	55	0.916667	0.827921	22.08696	Stalled	chr9:66662800-66684513	19.714
Sf3b2	111	0	1.850089	504	8.4	78.6287	10.96222	Stalled	chr19:5273920-5297455	21.536
Kctd9	111	0	1.850089	153	2.55	4.35742	24.6178	Stalled	chr14:68332154-68360367	26.214
Lsg1	111	0	1.850089	620	10.33333	17.457	9.186249	Stalled	chr16:30561454-30589675	26.222
Tpm1	111	0	1.850089	338	5.633333	16.0194	0.352316	Stalled	chr9:66870399-66899020	26.622
Mvp	111	0	1.850089	410	6.833333	21.3718	8.998695	Stalled	chr7:134130374-134160108	27.735
Gpm	111	0	1.850089	166	2.766667	1.80423	35.83568	Stalled	chr19:55144223-55175937	29.715
Alkbh3	111	0	1.850089	341	5.683333	10.7017	16.35346	Stalled	chr2:93820790-93852887	30.098
Ncapg	111	0	1.850089	271	4.516667	9.53865	36.1648	Stalled	chr5:46059163-46091786	30.624
Tgm4	111	0	1.850089	89	1.483333	0.60214	0	Unclassified	chr9:122941858-122976676	32.819
Fam120b	111	0	1.850089	287	4.783333	7.48084	21.35243	Stalled	chr17:15531209-15570545	37.337
Cdca2	111	0	1.850089	623	10.38333	14.5023	11.74485	Stalled	chr14:68294410-68335667	39.258
D19Bwg1357e	111	0	1.850089	527	8.783333	12.796	28.01439	Stalled	chr9:27463191-27506310	41.12
D16H22S680E	111	0	1.850089	353	5.883333	3.41552	12.14911	Stalled	chr16:18300919-18346025	43.107
Bus1b	111	0	1.850089	394	6.566667	33.7324	6.507268	Stalled	chr2:118421946-118467328	43.383
Appbp2	111	0	1.850089	486	8.1	11.0111	36.26956	Stalled	chr11:85004811-85050622	43.812
Rnf145	111	0	1.850089	1018	16.96667	23.8211	8.395398	Stalled	chr11:44330465-44379020	46.556
Gabpb1	111	0	1.850089	632	10.53333	10.2548	38.27204	Stalled	chr2:126454648-126503222	46.575
Ranbp2	111	0	1.850089	619	10.31667	12.5503	28.67448	Stalled	chr10:57907599-57956902	47.304
Mink1	111	0	1.850089	451	7.516667	12.616	12.20679	Stalled	chr11:70374382-70427984	51.603
Ikbkap	111	0	1.850089	634	10.56667	6.13616	21.62087	Stalled	chr4:56762551-56817203	52.653
Colq	111	0	1.850089	247	4.116667	0.705237	1.064951	Unclassified	chr14:32336269-32392569	54.301
Rspry1	111	0	1.850089	207	3.45	7.7496	48.15374	Stalled	chr8:97123840-97184176	58.337
2610028A01Rik	111	0	1.850089	811	13.51667	15.2528	15.89049	Stalled	chr14:64477148-64538696	59.549
Zc3h13	111	0	1.850089	381	6.35	9.68772	31	Stalled	chr14:75682179-75744233	60.055
Rffl	111	0	1.850089	794	13.23333	3.54021	12.11488	Stalled	chr11:82617321-82686712	67.392
Arid4a	111	0	1.850089	464	7.733333	5.64034	44.17957	Stalled	chr12:72114953-72200338	83.386
Vcan	111	0	1.850089	99	1.65	0.364876	4.654543	Unclassified	chr13:89794914-89884117	87.204
Ints9	111	0	1.850089	664	11.06667	11.5835	10.37869	Stalled	chr14:65566881-65658663	89.783
Abcc5	111	0	1.850089	209	3.483333	3.89164	41.28857	Stalled	chr16:20331376-20428467	95.092
Ccdc6	111	0	1.850089	1585	26.41667	9.23266	7.640069	Stalled	chr10:69557868-69655948	96.081
Hmbox1	111	0	1.850089	508	8.466667	5.55425	16.16232	Stalled	chr14:65441054-65570684	127.631
Ank	111	0	1.850089	1438	23.96667	1.06273	0.243859	Stalled	chr15:27394431-27524662	128.232
Cbara1	111	0	1.850089	800	13.33333	9.90078	25.06364	Stalled	chr10:59163382-59326870	161.489
1110051M20Rik	111	0	1.850089	534	8.9	1.49563	6.397442	Stalled	chr2:91117984-91286799	166.816
Rapgef6	111	0	1.850089	1538	25.63333	6.43768	42.0825	Stalled	chr11:54334348-54512787	176.44
Ap3b1	111	0	1.850089	1759	29.31667	15.8447	23.93947	Stalled	chr13:95126914-95336271	207.358
Mylk	111	0	1.850089	352	5.866667	0.148529	0.761623	Unclassified	chr16:34783035-35002520	217.486
Chchd3	111	0	1.850089	1572	26.2	36.2771	21.33759	Stalled	chr6:32742226-33012152	267.927
AV249152	111	0	1.850089	285	4.75	1.16464	40.51548	Stalled	chr11:21470283-21798689	326.407
Ier3	110	0	1.833421	9	0.15	11.52	2.891304	Unclassified	chr17:35956657-35959856	1.2
Atp6v1f	110	0	1.833421	45	0.75	103.505	6.693374	Stalled	chr6:29415782-29420509	2.728
Psmc3ip	110	0	1.833421	55	0.916667	12.4507	11.84872	Stalled	chr11:100953470-100958715	3.246
Smpd1	110	0	1.833421	27	0.45	11.6805	11.80519	Stalled	chr7:112700873-112706902	4.03
2210021J22Rik	110	0	1.833421	43	0.716667	7.79183	30.94733	Stalled	chr15:85637401-85644127	4.727
Wdr74	110	0	1.833421	108	1.8	33.2721	10.46797	Stalled	chr19:8808328-8815114	4.787
Wdr24	110	0	1.833421	111	1.85	12.9994	4.671865	Stalled	chr17:25958571-25965675	5.105
Ndufv1	110	0	1.833421	82	1.366667	40.0245	11.60509	Stalled	chr19:4007504-4014725	5.222
Srp19	110	0	1.833421	52	0.866667	44.2165	36.544	Stalled	chr18:34488798-34496253	5.456
Usp21	110	0	1.833421	124	2.066667	8.3975	8.695523	Stalled	chr1:173212085-173220092	6.008
Psmc3	110	0	1.833421	252	4.2	57.9922	11.57559	Stalled	chr11:101175564-101184844	7.281
Mrpl17	110	0	1.833421	264	4.4	8.61789	6.346502	Stalled	chr7:112952295-112961601	7.307

Kifc2	110	0	1.833421	33	0.55	1.21075	0.828804	Unclassified	chr15:76489070-76498626	7.557
Atp5j2	110	0	1.833421	282	4.7	211.707	5.865415	Stalled	chr5:145944574-145954461	7.888
Zfyve19	110	0	1.833421	67	1.116667	13.2213	23.77189	Stalled	chr2:119032455-119042786	8.332
Fdps	110	0	1.833421	330	5.5	75.4642	3.686491	Stalled	chr3:88897509-88907867	8.359
Wbp2	110	0	1.833421	158	2.633333	21.875	3.039572	Stalled	chr11:115939886-115950278	8.393
Nkx2-2	110	0	1.833421	13	0.216667	0.362051	0	Unclassified	chr2:147003281-147014138	8.858
Fdxr	110	0	1.833421	81	1.35	9.50483	22.95912	Stalled	chr11:115129338-115140283	8.946
Kcnk6	110	0	1.833421	58	0.966667	3.03177	4.258832	Stalled	chr7:30006946-30019541	10.596
Surf6	110	0	1.833421	416	6.933333	23.9772	6.257932	Stalled	chr2:26746291-26760333	12.043
Bysl	110	0	1.833421	519	8.65	14.6575	5.074445	Stalled	chr17:47736279-47750441	12.163
Stxbp2	110	0	1.833421	272	4.533333	46.2303	7.900813	Stalled	chr8:3629159-3643644	12.486
Nob1	110	0	1.833421	390	6.5	32.0553	6.127149	Stalled	chr8:109936388-109950938	12.551
Med20	110	0	1.833421	248	4.133333	9.75569	10.37576	Stalled	chr17:47746544-47761367	12.824
Tlr4	110	0	1.833421	53	0.883333	1.46254	17.33054	Stalled	chr4:66486844-66503830	14.987
Idua	110	0	1.833421	201	3.35	5.5863	13.75268	Stalled	chr5:109096124-109113577	15.454
Nup50	110	0	1.833421	564	9.4	19.8994	13.61945	Stalled	chr15:84751857-84773393	19.537
Cpsf31	110	0	1.833421	368	6.133333	16.3819	16.64179	Stalled	chr4:155241675-155263212	19.538
Rdh13	110	0	1.833421	179	2.983333	5.69123	6.619322	Stalled	chr7:4377266-4399259	19.994
Safb2	110	0	1.833421	1543	25.71667	55.4782	5.571186	Stalled	chr17:56702364-56726006	21.643
Traf6	110	0	1.833421	285	4.75	4.77809	11.73276	Stalled	chr2:101516596-101541131	22.536
Ccdc101	110	0	1.833421	180	3	12.9126	49.94271	Stalled	chr7:133790822-133816292	23.471
Slc39a6	110	0	1.833421	351	5.85	10.8721	19.56801	Stalled	chr18:24738381-24764318	23.938
Cyp51	110	0	1.833421	515	8.583333	49.9517	17.20375	Stalled	chr5:4080673-4106697	24.025
Copb2	110	0	1.833421	343	5.716667	29.2804	17.7355	Stalled	chr9:98462149-98488794	24.646
Anxa7	110	0	1.833421	250	4.166667	16.4169	9.763205	Stalled	chr14:21274482-21301355	24.874
Sarm1	110	0	1.833421	44	0.733333	1.24586	37.12386	Stalled	chr11:78285832-78313256	25.425
Sgms2	110	0	1.833421	48	0.8	0.075286	0	Unclassified	chr3:131021905-131049841	25.937
9130404D08Rik	110	0	1.833421	479	7.983333	9.7487	15.68413	Stalled	chr8:72540021-72568633	26.613
Gtf2h1	110	0	1.833421	467	7.783333	11.8033	23.80257	Stalled	chr7:54049463-54079170	27.708
Mcm6	110	0	1.833421	1021	17.01667	47.6015	9.452184	Stalled	chr1:130228167-130258233	28.067
Rbbp4	110	0	1.833421	471	7.85	32.0642	19.3208	Stalled	chr4:128984343-129014614	28.272
Sf4	110	0	1.833421	410	6.833333	18.2039	19.59025	Stalled	chr8:72564711-72595852	29.142
Slc31a1	110	0	1.833421	338	5.633333	14.019	26.8773	Stalled	chr4:62019734-62052802	31.069
2310003L22Rik	110	0	1.833421	130	2.166667	4.6719	45.60276	Stalled	chr2:139994381-140030988	34.608
Elp2	110	0	1.833421	313	5.216667	15.588	29.68476	Stalled	chr18:24760461-24797331	34.871
Hps5	110	0	1.833421	158	2.633333	5.43326	77.09156	Stalled	chr7:54015835-54053251	35.417
Dhx29	110	0	1.833421	215	3.583333	6.1915	27.20525	Stalled	chr13:113716000-113759395	41.396
Atp2a2	110	0	1.833421	1943	32.38333	47.2961	10.59398	Stalled	chr5:122903521-122954234	48.714
Urgcp	110	0	1.833421	666	11.1	6.97507	33.92385	Stalled	chr11:5613419-5664379	48.961
Esf1	110	0	1.833421	285	4.75	6.85028	32.80474	Stalled	chr2:139945616-139998294	50.679
Dcps	110	0	1.833421	276	4.6	34.5481	23.53946	Stalled	chr9:34931998-34985572	51.575
Skiv2l2	110	0	1.833421	867	14.45	16.7134	12.91571	Stalled	chr13:113657987-113719588	59.602
Farsb	110	0	1.833421	927	15.45	17.9227	19.22161	Stalled	chr1:78421410-78487421	64.012
Vmn2r29	110	36	1.833421	9	0.15	0.342136	34.21113	Stalled	chr7:7165706-7233000	65.295
Pet112l	110	0	1.833421	270	4.5	6.55908	38.38339	Stalled	chr3:85376050-85458392	80.343
Nol10	110	0	1.833421	1138	18.96667	9.43266	17.5283	Stalled	chr12:17353298-17436901	81.604
Fntb	110	0	1.833421	407	6.783333	7.82219	29.11924	Stalled	chr12:77936453-78022399	83.947
Gng2	110	0	1.833421	751	12.51667	5.46785	10.06963	Stalled	chr14:20691780-20798471	104.692
Farp2	110	0	1.833421	324	5.4	0.622091	37.72663	Stalled	chr1:95406680-95518551	109.872
Map2k6	110	0	1.833421	460	7.666667	6.89095	5.937941	Stalled	chr11:110258435-110374951	114.517
Faf1	110	0	1.833421	1144	19.06667	5.46199	96.6905	Stalled	chr4:109347231-109636565	287.335
Dlgap1	110	0	1.833421	478	7.966667	0.325334	0.452853	Unclassified	chr17:70772131-71170753	396.623
Rpl41	109	0	1.816754	13	0.216667	118.61	2.196018	Unclassified	chr10:127985165-127988224	1.06
Gpr172b	109	0	1.816754	31	0.516667	9.34089	19.91859	Stalled	chr15:76367372-76372560	3.189
Tprgl	109	0	1.816754	67	1.116667	19.1438	3.401734	Stalled	chr4:153531594-153536793	3.2
Dph2	109	0	1.816754	54	0.9	11.372	3.562152	Stalled	chr4:117561247-117566608	3.362
Mrp155	109	0	1.816754	40	0.666667	17.5932	10.82908	Stalled	chr11:59014018-59019504	3.487
Arrdc2	109	0	1.816754	98	1.633333	9.46004	11.14884	Stalled	chr8:73359036-73365619	4.584
Ifit20	109	0	1.816754	139	2.316667	33.1478	9.092331	Stalled	chr11:78347937-78354975	5.039
Med10	109	0	1.816754	114	1.9	32.6751	5.729478	Stalled	chr13:69946759-69954972	6.214
Polr2j	109	0	1.816754	221	3.683333	59.3278	8.505458	Stalled	chr5:136590560-136598817	6.258
Tnfrsf17	109	0	1.816754	41	0.683333	1.04172	0.113724	Unclassified	chr16:11311901-11320161	6.261
Atp5g2	109	0	1.816754	405	6.75	35.7098	6.602922	Stalled	chr15:102493298-102503478	8.181
Mrps36	109	0	1.816754	48	0.8	8.38171	24.95431	Stalled	chr13:101505915-101516590	8.676
Esrra	109	0	1.816754	569	9.483333	12.8092	2.836934	Stalled	chr19:6985466-6998298	10.833
Gorasp1	109	0	1.816754	482	8.033333	10.7227	5.588321	Stalled	chr9:119834790-119848676	11.887
Sumo2	109	0	1.816754	418	6.966667	0	6.313431	Stalled	chr11:115384422-115399544	13.123
Plaur	109	0	1.816754	83	1.383333	0.963979	6.098296	Stalled	chr7:25245518-25260892	13.375
Tnfaip1	109	0	1.816754	319	5.316667	6.66991	12.28421	Stalled	chr11:78336351-78351762	13.412
Serp1nb6b	109	0	1.816754	181	3.016667	10.7433	6.53724	Stalled	chr13:33055381-33070906	13.526
Rbm45	109	0	1.816754	160	2.666667	19.0908	14.0588	Stalled	chr2:76206040-76221824	13.785
Txn2	109	0	1.816754	316	5.266667	49.1984	14.12776	Stalled	chr15:77745480-77761424	13.945
Becn1	109	0	1.816754	269	4.483333	42.3866	8.29909	Stalled	chr11:101149580-101165581	14.002
Txlna	109	0	1.816754	637	10.61667	28.0082	9.566513	Stalled	chr4:129303326-129319884	14.559
Catsper2	109	0	1.816754	66	1.1	4.00045	115.5132	Stalled	chr2:121220091-121241528	19.438
Dhx33	109	0	1.816754	254	4.233333	6.07971	9.90704	Stalled	chr11:70797592-70819934	20.343
Ly96	109	0	1.816754	131	2.183333	9.83723	24.2637	Stalled	chr1:16676536-16699686	21.151
Denr	109	0	1.816754	379	6.316667	25.0757	12.24611	Stalled	chr5:124355283-124378841	21.559
Fbp1	109	0	1.816754	46	0.766667	0.429049	1.31328	Unclassified	chr13:62966112-62991596	23.485
Fam105a	109	0	1.816754	209	3.483333	2.27693	11.94722	Stalled	chr15:27586024-27613253	25.23
Stat5a	109	0	1.816754	688	11.46667	22.1433	0.626726	Stalled	chr11:100718664-100746482	25.819
Gpr161	109	0	1.816754	34	0.566667	0.065962	0.424577	Unclassified	chr1:167223896-167251982	26.087
Saps1	109	0	1.816754	774	12.9	61.1705	13.1879	Stalled	chr7:4583096-4612552	27.457
Sec31b	109	0	1.816754	55	0.916667	0.274244	6.056893	Stalled	chr19:44591446-44622338	28.893
1190005F20Rik	109	0	1.816754	140	2.333333	12.9536	58.07571	Stalled	chr1:153273777-153305312	29.536
Ttc21a	109	0	1.816754	321	5.35	1.27761	20.50462	Stalled	chr9:119844723-119878911	30.189

Ccpg1	109	0	1.816754	77	1.283333	7.44766	17.42931	Stalled	chr9:72831357-72863806	30.45
Dpp9	109	0	1.816754	681	11.35	15.4513	9.947141	Stalled	chr17:56326104-56360312	32.209
Ifnar2	109	0	1.816754	502	8.366667	18.6086	14.00211	Stalled	chr16:91371027-91405832	32.806
Pon2	109	0	1.816754	331	5.516667	12.1049	14.94612	Stalled	chr6:5214623-5250373	33.751
Sdc3	109	0	1.816754	198	3.3	2.71396	2.272819	Stalled	chr4:130346451-130382233	33.783
Dhx8	109	0	1.816754	425	7.083333	9.92645	12.09612	Stalled	chr11:101592269-101628671	34.403
Parp14	109	0	1.816754	1180	19.66667	19.9086	7.48576	Stalled	chr16:35832963-35873468	38.506
Jdp2	109	0	1.816754	604	10.06667	7.18302	6.133055	Stalled	chr12:86938365-86980828	40.464
Med23	109	0	1.816754	383	6.383333	4.51665	10.09775	Stalled	chr10:24587791-24633335	43.545
Immt	109	0	1.816754	369	6.15	24.9326	55.7641	Stalled	chr6:71779324-71825280	43.937
Morc3	109	0	1.816754	678	11.3	6.48391	18.35005	Stalled	chr16:93830365-93876317	43.953
Zfp697	109	0	1.816754	180	3	1.83147	0.636451	Unclassified	chr3:98184403-98235872	49.47
Mttr10	109	0	1.816754	204	3.4	0.984719	25.44429	Stalled	chr7:71430555-71485692	53.138
Ints8	109	0	1.816754	486	8.1	6.71759	24.14136	Stalled	chr4:11126304-11183406	55.103
Luc712	109	0	1.816754	1165	19.41667	39.8121	25.61958	Stalled	chr6:38499443-38559469	58.027
Cacna1g	109	0	1.816754	96	1.6	0.102605	2.414521	Unclassified	chr11:94269704-94337351	65.648
Mccc2	109	0	1.816754	226	3.766667	6.53991	50.92115	Stalled	chr13:100718486-100787594	67.109
Tnpo3	109	0	1.816754	651	10.85	15.3828	33.75983	Stalled	chr6:29490826-29561607	68.782
Prelid2	109	0	1.816754	101	1.683333	12.3888	8.065527	Stalled	chr18:42035349-42112848	75.5
Pkd112	109	0	1.816754	161	2.683333	0.048593	0.695147	Unclassified	chr8:119519579-119608349	86.771
Smarca4	109	0	1.816754	1864	31.06667	35.1297	12.95077	Stalled	chr9:21418612-21507811	87.2
Lrp5	109	0	1.816754	283	4.716667	0.671475	1.837664	Unclassified	chr19:3584824-3688564	101.741
Itih5	109	0	1.816754	110	1.833333	0.318289	4.811027	Unclassified	chr2:10073169-10178156	102.988
Cdyl	109	0	1.816754	1296	21.6	3.93168	15.67797	Stalled	chr13:35831270-35965933	132.664
AU040829	109	0	1.816754	266	4.433333	0.047853	1.126426	Unclassified	chr11:64815540-64978463	160.924
Tll11	109	0	1.816754	502	8.366667	1.02417	33.98063	Stalled	chr2:35606760-35837144	228.385
BC057079	109	0	1.816754	2055	34.25	5.41685	39.91545	Stalled	chr4:87738533-88056915	316.383
Bmyc	108	0	1.800086	0	0	36.9635	140	Unclassified	chr2:25560398-25563239	0.842
2810422O2ORik	108	0	1.800086	3	0.05	5.4569	59.86047	Stalled	chr1:165923075-165927374	2.3
Snrpd2	108	0	1.800086	40	0.666667	143.893	6.587252	Stalled	chr7:19733186-19738075	2.89
Atpif1	108	0	1.800086	45	0.75	94.4143	9.433321	Stalled	chr4:132086469-132091574	3.106
Rps19bp1	108	0	1.800086	155	2.583333	22.0777	2.9384	Stalled	chr15:80091043-80096736	3.694
Ggn	108	0	1.800086	471	7.85	1.60372	0.235844	Stalled	chr7:29953228-29958952	3.725
Sic39a5	108	0	1.800086	150	2.5	0.077424	0.695435	Stalled	chr10:127832989-127840280	5.292
Tubg1	108	0	1.800086	60	1	23.4827	26.89968	Stalled	chr11:100979444-100987733	6.29
Ppib	108	0	1.800086	190	3.166667	231.957	10.25547	Stalled	chr9:65905975-65914436	6.462
Zfp46	108	0	1.800086	42	0.7	5.27688	20.39642	Stalled	chr4:135839983-135849857	7.875
Hnrnph1	108	0	1.800086	284	4.733333	93.0934	13.65134	Stalled	chr11:50189220-50200030	8.811
Dos	108	0	1.800086	263	4.383333	3.76615	0.907911	Elongating	chr10:79593178-79604112	8.935
Zfp259	108	0	1.800086	249	4.15	17.1103	7.261589	Stalled	chr9:46079146-46090725	9.58
Nit2	108	0	1.800086	214	3.566667	6.92557	7.435398	Stalled	chr16:57156777-57169445	10.669
Hscb	108	0	1.800086	46	0.766667	33.7093	38.86458	Stalled	chr5:111258088-111270796	10.709
Impdh1	108	0	1.800086	193	3.216667	16.6781	11.74537	Stalled	chr6:29150439-29164271	11.833
Msi1	108	0	1.800086	224	3.733333	19.0856	6.888503	Stalled	chr11:98655082-98669173	12.092
Aco8	108	0	1.800086	178	2.966667	14.9411	26.50472	Stalled	chr2:164618268-164632381	12.114
Adam8	108	0	1.800086	43	0.716667	1.22057	3.162721	Unclassified	chr7:147164839-147180387	13.549
Kctd20	108	0	1.800086	542	9.033333	18.7445	1.703883	Elongating	chr17:29088160-29104882	14.723
Skp1a	108	0	1.800086	129	2.15	17.9378	32.60869	Stalled	chr11:52043496-52060360	14.865
Zwint	108	0	1.800086	283	4.716667	11.093	8.00353	Stalled	chr10:72115642-72132537	14.896
Mphosph10	108	0	1.800086	253	4.216667	16.2718	13.34109	Stalled	chr7:71521426-71539122	15.697
Pmf1	108	0	1.800086	414	6.9	42.3694	15.5224	Stalled	chr3:88198064-88216238	16.175
Serhl	108	0	1.800086	654	10.9	14.9908	6.284536	Stalled	chr15:82928634-82947101	16.468
Tsnaxip1	108	0	1.800086	113	1.883333	0.741981	4.078226	Stalled	chr8:108349643-108368576	16.934
Zswim3	108	0	1.800086	91	1.516667	3.65555	68.69023	Stalled	chr2:164628613-164647627	17.015
2810046L04Rik	108	0	1.800086	250	4.166667	6.06855	10.02667	Stalled	chr3:53265738-53285677	17.94
Ngfr	108	0	1.800086	29	0.483333	0.357998	8.007723	Stalled	chr11:95430139-95451012	18.874
Zfp251	108	0	1.800086	73	1.216667	8.9895	31.65954	Stalled	chr15:76682573-76703865	19.293
Lmtk3	108	0	1.800086	85	1.416667	0.572255	3.130441	Stalled	chr7:53037316-53059500	20.185
Ccdc90b	108	0	1.800086	37	0.616667	5.74139	42.30427	Stalled	chr7:99707658-99730803	21.146
Myh7b	108	0	1.800086	144	2.4	0.397348	0.532147	Stalled	chr2:155434947-155460043	23.097
Krba1	108	0	1.800086	167	2.783333	2.19704	7.33827	Stalled	chr6:48343584-48369854	24.271
Rqcd1	108	0	1.800086	348	5.8	14.6036	28.91563	Stalled	chr1:74550633-74577416	24.784
Usp18	108	0	1.800086	302	5.033333	5.6079	17.38295	Stalled	chr6:121193923-121220935	25.013
Mme11	108	0	1.800086	122	2.033333	0.026061	0	Unclassified	chr4:154241693-154269639	25.947
Sic26a9	108	0	1.800086	58	0.966667	0.084503	0.304431	Unclassified	chr1:133638598-133666982	26.385
Pip4k2b	108	0	1.800086	489	8.15	18.2206	12.85273	Stalled	chr11:97576470-97608018	29.549
Opn3	108	0	1.800086	205	3.416667	5.96812	25.03358	Stalled	chr1:177592558-177624721	30.164
Fdft1	108	0	1.800086	532	8.866667	25.4605	15.10215	Stalled	chr14:63763987-63798630	32.644
Chek2	108	0	1.800086	163	2.716667	3.6954	37.82637	Stalled	chr5:111267035-111303152	34.118
BC055324	108	0	1.800086	194	3.233333	5.55072	34.36873	Stalled	chr1:165884138-165926912	40.775
Atp6v0d1	108	0	1.800086	287	4.783333	22.879	17.95923	Stalled	chr8:108048369-108091940	41.572
Odf2	108	0	1.800086	1032	17.2	28.1308	9.176573	Stalled	chr2:29743239-29787266	42.028
Cdk11	108	0	1.800086	111	1.85	0.56152	4.457114	Unclassified	chr12:70847834-70893694	43.861
6330512M04Rik	108	0	1.800086	109	1.816667	0.134909	2.050308	Unclassified	chr7:149512014-149560164	46.151
Zbtb38	108	91	1.800086	1265	21.08333	5.59415	0.034538	Stalled	chr9:96585841-96634094	46.254
Vapb	108	0	1.800086	328	5.466667	7.39972	6.489741	Stalled	chr2:173561071-173609837	46.767
Smcp2	108	0	1.800086	1486	24.76667	84.6255	7.218242	Stalled	chr4:120640921-120691852	48.932
Pccb	108	0	1.800086	215	3.583333	9.68124	61.38954	Stalled	chr9:100882456-100937294	52.839
Gcn111	108	0	1.800086	1343	22.38333	16.3078	15.39391	Stalled	chr5:116013271-116072663	57.393
Ranbp10	108	0	1.800086	496	8.266667	7.57787	13.72412	Stalled	chr8:108292207-108353250	59.044
1200016B10Rik	108	0	1.800086	238	3.966667	1.95989	63.60272	Stalled	chr1:153214828-153277565	60.738
Mlixip	108	0	1.800086	878	14.63333	13.4973	19.49086	Stalled	chr5:123842827-123907940	63.114
Frs2	108	0	1.800086	507	8.45	2.57236	18.13439	Stalled	chr10:116507182-116587530	78.349
Mybpc1	108	0	1.800086	132	2.2	0.121063	0.394134	Unclassified	chr10:87981028-88069897	86.87
Usp37	108	0	1.800086	1506	25.1	1.99269	0.066786	Stalled	chr1:74482084-74592860	108.777
Mbni2	108	0	1.800086	1696	28.26667	7.06026	6.030278	Stalled	chr14:120672890-120830920	156.031

Arnt2	108	0	1.800086	182	3.033333	0.062049	1.887908	Unclassified	chr7:91394788-91560469	163.682
BC052040	108	0	1.800086	395	6.583333	3.5249	52.40897	Stalled	chr2:115405451-115604504	197.054
Tmem185b	107	0	1.783419	12	0.2	8.2302	18.35893	Stalled	chr1:121420743-121424803	2.061
Rpl7a	107	0	1.783419	284	4.733333	0	2.690171	Stalled	chr2:26764326-26768831	2.506
Ccdc107	107	0	1.783419	15	0.25	20.7626	13.04976	Stalled	chr4:43504275-43508792	2.518
Cenpb	107	0	1.783419	120	2	56.1873	2.933457	Stalled	chr2:131003024-131007748	2.725
Tcta	107	0	1.783419	35	0.583333	8.68452	23.99716	Stalled	chr9:108205288-108210282	2.995
Gale	107	0	1.783419	105	1.75	24.3613	0.86614	Elongating	chr4:135519079-135524093	3.015
Mettl1	107	0	1.783419	88	1.466667	16.2684	5.172096	Stalled	chr10:126476987-126482517	3.531
Sys1	107	0	1.783419	163	2.716667	52.5191	5.698224	Stalled	chr2:164284470-164291010	4.541
Fam71e1	107	0	1.783419	40	0.666667	2.584	35.75753	Stalled	chr7:51749957-51756503	4.547
2310044H10Rik	107	0	1.783419	139	2.316667	27.8687	17.20131	Stalled	chr7:51745308-51753883	6.576
Mterfd2	107	0	1.783419	92	1.533333	3.14082	8.578941	Stalled	chr1:95195787-95204447	6.661
2610039C10Rik	107	0	1.783419	69	1.15	19.5857	23.39401	Stalled	chr16:90719556-90729616	8.061
Cyp1b1	107	0	1.783419	8	0.133333	0.149888	1.87939	Unclassified	chr17:80106292-80116381	8.09
Taba1c	107	0	1.783419	345	5.75	0	7.416449	Stalled	chr15:98858321-98868536	8.216
Zfp3	107	0	1.783419	65	1.083333	1.06451	25.29634	Stalled	chr11:70575948-70586431	8.484
Snx15	107	0	1.783419	43	0.716667	7.59189	16.14479	Stalled	chr19:6119403-6130215	8.813
4933413G19Rik	107	0	1.783419	56	0.933333	0	1.336098	Unclassified	chr6:128323527-128335162	9.636
Ankrd54	107	0	1.783419	185	3.083333	17.5011	6.922495	Stalled	chr15:78883523-78895289	9.767
Trp53	107	0	1.783419	451	7.516667	40.0072	5.536943	Stalled	chr11:69391860-69405375	11.516
Eno1	107	0	1.783419	535	8.916667	141.3666	6.320566	Stalled	chr4:149609305-149622982	11.678
3110003A17Rik	107	0	1.783419	148	2.466667	27.2714	24.47606	Stalled	chr10:17731066-17745058	11.993
Kin	107	0	1.783419	171	2.85	11.9685	26.80001	Stalled	chr2:10000238-10014328	12.091
Ppp1r3b	107	0	1.783419	45	0.75	0.750075	2.020994	Unclassified	chr8:36436794-36451191	12.398
Pfdn2	107	0	1.783419	172	2.866667	84.6721	16.82121	Stalled	chr1:173273829-173288301	12.473
Dok4	107	0	1.783419	228	3.8	0.519927	0.863299	Stalled	chr8:97387727-97402212	12.486
Zfp207	107	0	1.783419	447	7.45	38.0346	8.763639	Stalled	chr11:80194780-80209750	12.971
Zfand2a	107	0	1.783419	235	3.916667	5.08009	13.75165	Stalled	chr5:139947170-139962445	13.276
Ccdc88b	107	0	1.783419	183	3.05	13.2771	9.719771	Stalled	chr19:6919112-6934701	13.59
1200009I06Rik	107	0	1.783419	74	1.233333	0.591684	1.470232	Unclassified	chr12:112653640-112669394	13.755
Sf1	107	0	1.783419	1118	18.63333	58.9774	6.171432	Stalled	chr19:6361689-6378038	14.35
Necab3	107	0	1.783419	285	4.75	0.396527	5.092478	Stalled	chr2:154370140-154386589	14.45
Reg4	107	0	1.783419	22	0.366667	0.225949	0	Unclassified	chr3:98024078-98040671	14.594
Cpsf4	107	0	1.783419	493	8.216667	29.4212	7.524926	Stalled	chr5:145926092-145942909	14.818
Ube2b	107	0	1.783419	222	3.7	18.7748	15.69534	Stalled	chr11:51798648-51815968	15.321
Meox1	107	0	1.783419	35	0.583333	0.098676	0	Unclassified	chr11:101738823-101757668	16.846
Ube2z	107	0	1.783419	480	8	25.1058	11.20876	Stalled	chr11:95908749-95928678	17.93
Xkr5	107	0	1.783419	86	1.433333	3.90523	45.43432	Stalled	chr8:18932728-18952973	18.246
Picd1	107	0	1.783419	239	3.983333	3.88292	8.550294	Stalled	chr9:118980645-119004614	21.97
Nsun4	107	0	1.783419	135	2.25	4.38727	31.3671	Stalled	chr4:115704376-115728481	22.106
Tecr	107	0	1.783419	821	13.68333	62.8675	7.757421	Stalled	chr8:86095598-86120390	22.793
Atp5c1	107	0	1.783419	486	8.1	56.748	20.78488	Stalled	chr2:9977658-10004137	24.48
Dram2	107	0	1.783419	89	1.483333	2.87006	57.23405	Stalled	chr3:106348744-106377763	27.02
Tmf1	107	0	1.783419	191	3.183333	8.16941	42.18514	Stalled	chr6:97101943-97131118	27.176
Rbbp5	107	0	1.783419	257	4.283333	8.25954	20.35737	Stalled	chr1:134371943-134402242	28.3
Psbm2	107	0	1.783419	551	9.183333	105.026	19.05843	Stalled	chr4:126352886-126386959	32.074
Hacl1	107	0	1.783419	81	1.35	4.71338	53.25331	Stalled	chr14:32420411-32456151	33.741
Cdadc1	107	0	1.783419	228	3.8	8.76906	19.85793	Stalled	chr14:60182783-60218796	34.014
Std1	107	0	1.783419	257	4.283333	56.5345	33.22917	Stalled	chr15:81195473-81232124	34.652
Cept1	107	0	1.783419	141	2.35	3.39627	61.17564	Stalled	chr3:106305177-106352679	45.503
Xpnpep3	107	0	1.783419	228	3.8	1.70374	49.56486	Stalled	chr15:81228617-81285318	54.702
Anln	107	0	1.783419	479	7.983333	3.51057	39.13065	Stalled	chr9:22135657-22195650	57.994
Rprd2	107	0	1.783419	612	10.2	3.24489	24.87686	Stalled	chr3:95563795-95624876	59.082
Sp100	107	0	1.783419	1310	21.83333	28.5352	1.835136	Elongating	chr1:87544624-87606023	59.4
Rbbp8	107	0	1.783419	274	4.566667	3.90157	73.92209	Stalled	chr18:11814350-11901716	85.367
Eya3	107	0	1.783419	625	10.41667	5.89291	24.35143	Stalled	chr4:132192960-132280678	85.719
Sacs	107	0	1.783419	612	10.2	1.77296	0.283883	Stalled	chr14:61755293-61859530	102.238
1700081L11Rik	107	0	1.783419	1174	19.56667	7.63985	25.62388	Stalled	chr11:104194542-104305605	109.064
Smg1	107	0	1.783419	1021	17.01667	8.36511	33.62442	Stalled	chr7:125274825-125389151	112.327
D930015E06Rik	107	0	1.783419	2179	36.31667	11.7757	20.10019	Stalled	chr3:83702208-83846083	141.876
Ppp1r12b	107	59	1.783419	628	10.46667	3.95003	27.75999	Stalled	chr1:136662519-136854517	189.999
Ptpn2	107	0	1.783419	688	11.46667	0.079299	2.674808	Unclassified	chr12:117722192-118516639	792.448
Hist4h4	106	68	1.766751	0	0	31.2934	630	Unclassified	chr6:136752588-136754900	0.313
Vmo1	106	0	1.766751	3	0.05	0.209791	0.16441	Unclassified	chr11:70327017-70330118	1.102
Hcrt	106	0	1.766751	5	0.083333	7.01899	0.137405	Unclassified	chr11:100623006-100626245	1.24
Wdr5b	106	0	1.766751	26	0.433333	14.5425	7.511984	Unclassified	chr16:36039275-36043060	1.786
Med31	106	0	1.766751	24	0.4	7.68432	12.81727	Stalled	chr11:72025225-72031094	3.87
Sfrs5	106	0	1.766751	219	3.65	119.612	7.902065	Stalled	chr12:82044490-82051494	5.005
Rgs19	106	0	1.766751	276	4.6	30.4736	6.983187	Stalled	chr2:181423127-181430629	5.503
Gm166	106	0	1.766751	130	2.166667	3.70094	4.056152	Stalled	chr7:134726601-134734109	5.509
Lat	106	0	1.766751	25	0.416667	1.03831	6.972937	Stalled	chr7:133507341-133515048	5.708
Rps3	106	0	1.766751	608	10.13333	496.388	2.835859	Stalled	chr7:106626406-106634219	5.814
Cncd1	106	0	1.766751	113	1.883333	0.671503	0.07374	Stalled	chr7:152115835-152127830	9.996
Pp11r	106	0	1.766751	86	1.433333	10.1646	5.472139	Stalled	chr15:97541449-97553581	10.133
Pldn	106	0	1.766751	103	1.716667	5.63034	26.59831	Stalled	chr2:122562240-122575223	10.984
Sema3b	106	0	1.766751	84	1.4	0.14764	0.322794	Stalled	chr9:107500445-107513572	11.128
Ceacam19	106	0	1.766751	202	3.366667	0.197162	0.052644	Stalled	chr7:20461090-20475314	12.225
Zbp1	106	0	1.766751	420	7	23.6158	3.933027	Stalled	chr2:173032115-173046423	12.309
Cntnap1	106	0	1.766751	156	2.6	1.36512	1.844963	Elongating	chr11:101035430-101052034	14.605
Rnf40	106	0	1.766751	405	6.75	24.4092	3.98435	Stalled	chr7:134730211-134747119	14.909
Arfgap1	106	0	1.766751	422	7.033333	17.3671	13.06437	Stalled	chr2:180699973-180717147	15.175
Slc38a3	106	0	1.766751	22	0.366667	0.049442	0.408936	Unclassified	chr9:107553485-107571705	16.221
Chek1	106	0	1.766751	124	2.066667	2.61028	38.93638	Stalled	chr9:36516066-36536243	18.178
Hexdc	106	0	1.766751	343	5.716667	5.06546	8.989162	Stalled	chr11:121063746-121083969	18.224
Nup54	106	0	1.766751	209	3.483333	8.5746	30.00042	Stalled	chr5:92844565-92866225	19.661

Frg1	106	0	1.766751	171	2.85	25.105	11.31719	Stalled	chr8:42482808-42504472	19.665
Nipsnap1	106	0	1.766751	146	2.433333	5.1418	8.251436	Stalled	chr11:4772005-4794203	20.199
Prdm9	106	0	1.766751	43	0.716667	1.4191	5.256085	Stalled	chr17:15680043-15702287	20.245
Lgals9	106	0	1.766751	387	6.45	48.6123	8.369619	Stalled	chr11:78776480-78800426	21.947
Sifn3	106	0	1.766751	181	3.016667	3.72485	11.42274	Stalled	chr11:83002831-83028656	23.826
Xpc	106	0	1.766751	171	2.85	3.84296	27.06787	Stalled	chr6:91439301-91467882	26.582
Bsdcl1	106	0	1.766751	308	5.133333	11.3927	12.88695	Stalled	chr4:129136922-129165676	26.755
Rad51c	106	0	1.766751	82	1.366667	3.37958	44.39383	Stalled	chr11:87191108-87219997	26.89
Traf2	106	0	1.766751	903	15.05	12.3944	8.455935	Stalled	chr2:25373501-25404414	28.914
Rhoa	106	0	1.766751	633	10.55	45.3183	25.23762	Stalled	chr9:108206535-108240270	31.736
3110043021Rik	106	0	1.766751	165	2.75	2.20374	42.29607	Stalled	chr4:35138530-35175129	34.6
Ripk2	106	0	1.766751	198	3.3	6.34337	30.52451	Stalled	chr4:16050521-16092645	40.125
Hspa4	106	0	1.766751	1438	23.96667	44.3011	13.9859	Stalled	chr11:53073315-53115981	40.667
Capza1	106	0	1.766751	680	11.33333	12.9694	25.36925	Stalled	chr3:104625702-104669423	41.722
Icgg	106	0	1.766751	221	3.683333	0.632575	39.36857	Stalled	chr16:33014355-33058272	41.918
Fbxo8	106	0	1.766751	180	3	4.18924	30.15739	Stalled	chr8:59027930-59072736	42.807
Nudt3	106	0	1.766751	688	11.46667	22.399	12.60559	Stalled	chr17:27716335-27762397	44.063
Eln	106	0	1.766751	55	0.916667	0.037286	0.44253	Unclassified	chr5:135178465-135225124	44.66
Mcoln2	106	0	1.766751	463	7.716667	2.79941	9.945129	Stalled	chr3:145810796-145858476	45.681
Mett10d	106	0	1.766751	637	10.61667	12.0741	23.90067	Stalled	chr11:74582364-74632194	47.831
Adam17	106	0	1.766751	420	7	12.8512	39.65779	Stalled	chr12:21329369-21381452	50.084
Txnrd2	106	0	1.766751	336	5.6	0	24.65248	Stalled	chr16:18424509-18479166	52.658
D19Wsu162e	106	0	1.766751	803	13.38333	15.8742	9.580917	Stalled	chr19:46671640-46731874	58.235
Sacm1l	106	0	1.766751	262	4.366667	5.12316	31.45784	Stalled	chr9:123436999-123501716	62.718
Dicer1	106	0	1.766751	761	12.68333	5.52846	12.88457	Stalled	chr12:105925951-105992162	64.212
Depdc1b	106	0	1.766751	247	4.116667	2.60815	20.58819	Stalled	chr13:109104530-109179751	73.222
Spnb2	106	0	1.766751	620	10.33333	9.18596	29.85554	Stalled	chr11:29999394-30100257	98.864
Ap2b1	106	0	1.766751	775	12.91667	14.268	23.01197	Stalled	chr11:83114198-83218535	102.338
Zhx2	106	0	1.766751	1056	17.6	3.6388	8.048204	Stalled	chr15:57524221-57761387	145.167
Kcnq5	106	0	1.766751	1711	28.51667	2.10971	24.24792	Stalled	chr1:21388488-21954023	563.536
Rmrp	105	0	1.750084	0	0	8.89893	158	Unclassified	chr4:43505656-43507931	0.276
Cldn13	105	0	1.750084	1	0.016667	7.69293	4.350548	Unclassified	chr5:135390119-135393396	1.278
Psenen	105	0	1.750084	3	0.05	27.1367	13.87952	Unclassified	chr7:31346884-31350203	1.32
Spcs1	105	0	1.750084	10	0.166667	55.0058	17.16307	Unclassified	chr14:31813011-31816852	1.842
U2af1l4	105	0	1.750084	15	0.25	18.9454	9.154998	Stalled	chr7:31346358-31350383	2.026
Srm	105	0	1.750084	236	3.933333	77.4202	2.57626	Stalled	chr4:147963621-147968728	3.108
Sphk1	105	0	1.750084	40	0.666667	0.40822	0.604253	Stalled	chr11:116392660-116397984	3.325
Dhps	105	0	1.750084	178	2.966667	15.2921	6.321541	Stalled	chr8:87593655-87599060	3.406
Josd2	105	0	1.750084	57	0.95	19.588	6.362099	Stalled	chr7:51721425-51727021	3.597
Rplp2	105	0	1.750084	291	4.85	818.938	4.421296	Stalled	chr7:148631548-148637241	3.694
Mesdc1	105	0	1.750084	189	3.15	15.302	4.023018	Stalled	chr7:91029004-91034851	3.848
Ccdc103	105	0	1.750084	5	0.083333	0.745897	70.84786	Stalled	chr11:102740557-102746529	3.973
Cip1	105	0	1.750084	49	0.816667	12.6823	18.59293	Stalled	chr2:84563278-84569425	4.148
Nxn12	105	0	1.750084	13	0.216667	3.57019	1.761693	Unclassified	chr13:51264393-51270556	4.164
Poir2h	105	0	1.750084	27	0.45	22.0712	20.00779	Stalled	chr16:20715898-20722338	4.441
D2Wsu81e	105	0	1.750084	141	2.35	18.1081	4.258603	Stalled	chr2:30028966-30035975	5.01
Gpr162	105	0	1.750084	15	0.25	0.363994	1.378453	Unclassified	chr6:124808462-124815935	5.474
4932411G14Rik	105	0	1.750084	10	0.166667	0.080281	0	Unclassified	chr13:59827285-59835113	5.829
Otub1	105	0	1.750084	307	5.116667	37.4041	8.543428	Stalled	chr19:7272695-7282774	8.08
Ddx39	105	0	1.750084	713	11.88333	61.5981	4.617386	Stalled	chr8:86237097-86247247	8.151
Gtf3c6	105	73	1.750084	91	1.516667	21.2188	29.71531	Stalled	chr10:39969008-39979471	8.464
Vim	105	55	1.750084	187	3.116667	91.9828	10.74315	Stalled	chr2:13493937-13504453	8.517
Sec61b	105	0	1.750084	179	2.983333	101.931	13.92414	Stalled	chr4:47485532-47496105	8.574
Mettl3	105	0	1.750084	240	4	0	10.09276	Stalled	chr14:52914516-52926799	10.284
Rexo4	105	0	1.750084	320	5.333333	21.7317	6.881149	Stalled	chr2:26809082-26821906	10.825
Glt8d1	105	0	1.750084	421	7.016667	4.49709	5.015517	Stalled	chr14:31812618-31825625	11.008
Shc1	105	0	1.750084	164	2.733333	12.6071	15.07341	Stalled	chr3:89220472-89233949	11.478
Pdik1l	105	0	1.750084	161	2.683333	2.95428	23.63714	Stalled	chr4:133830920-133845761	12.842
Zfp382	105	0	1.750084	85	1.416667	2.33768	27.26278	Stalled	chr7:30904966-30920051	13.086
2310008H09Rik	105	0	1.750084	407	6.783333	9.35633	5.327791	Stalled	chr7:125985733-126001512	13.78
Cisd1	105	0	1.750084	242	4.033333	31.1275	13.75678	Stalled	chr10:70793241-70809597	14.357
Zbtb7a	105	0	1.750084	1198	19.96667	18.486	1.708918	Elongating	chr10:80597015-80614402	15.388
Zfp82	105	0	1.750084	74	1.233333	2.29742	51.00055	Stalled	chr7:30841052-30859842	16.791
Strap	105	0	1.750084	346	5.766667	31.9282	17.38966	Stalled	chr6:137681602-137700451	16.85
Sumf2	105	0	1.750084	181	3.016667	5.98828	31.60781	Stalled	chr5:130320865-130339827	16.963
Laptm4a	105	0	1.750084	298	4.966667	26.232	7.004363	Stalled	chr12:8926112-8945547	17.436
2310057M21Rik	105	0	1.750084	177	2.95	5.74181	24.98881	Stalled	chr7:138486231-138508212	19.982
Aptx	105	0	1.750084	241	4.016667	3.05025	20.71862	Stalled	chr4:40629110-40652220	21.111
Map3k8	105	0	1.750084	1013	16.88333	11.174	6.984911	Stalled	chr18:4331324-4354951	21.628
Serbp1	105	0	1.750084	655	10.91667	83.9351	14.378	Stalled	chr6:67214972-67239296	22.325
Wnt9b	105	0	1.750084	39	0.65	0.045378	1.419782	Unclassified	chr11:103588676-103613135	22.46
Sic24a6	105	0	1.750084	160	2.666667	2.54595	7.804976	Stalled	chr5:120959200-120984033	22.834
Mobkl3	105	0	1.750084	244	4.066667	3.81233	27.86799	Stalled	chr1:55186088-55211743	23.656
Sp2	105	0	1.750084	812	13.53333	7.70915	9.420728	Stalled	chr11:96814651-96841002	24.352
Rasa4	105	0	1.750084	414	6.9	8.23514	5.255419	Stalled	chr5:136557785-136587730	27.946
Dhdds	105	0	1.750084	428	7.133333	16.1802	10.07249	Stalled	chr4:133524971-133558779	31.809
Unc45b	105	0	1.750084	62	1.033333	0.101058	1.337742	Unclassified	chr11:82722754-82756907	32.154
Anapc5	105	0	1.750084	943	15.71667	61.8107	16.27356	Stalled	chr5:123237469-123273348	33.88
Nr1d2	105	0	1.750084	90	1.5	0.7801	21.68533	Stalled	chr14:19036569-19073620	35.052
Bai2	105	0	1.750084	93	1.55	0.082864	0.281692	Unclassified	chr4:129660407-129699877	37.471
Ints3	105	0	1.750084	289	4.816667	17.9593	51.71083	Stalled	chr3:90195309-90239558	42.25
Eftud2	105	0	1.750084	854	14.23333	34.9079	10.1039	Stalled	chr11:102699785-102744289	42.505
Gfm1	105	0	1.750084	621	10.35	15.0879	9.452617	Stalled	chr3:67232036-67278990	44.955
Hmgxb3	105	0	1.750084	514	8.566667	6.41443	34.5356	Stalled	chr18:61290930-61338703	45.774
Golga3	105	0	1.750084	278	4.633333	6.01468	28.66858	Stalled	chr5:110603719-110652174	46.456
Sfrs2ip	105	0	1.750084	779	12.98333	14.9526	17.81181	Stalled	chr15:96242128-96293274	49.147

Bcl2l13	105	0	1.750084	584	9.733333	7.28891	31.3887	Stalled	chr6:120784247-120842860	56.614
Ankrd26	105	0	1.750084	99	1.65	4.01646	50.61945	Stalled	chr6:118452581-118514274	59.694
Eprs	105	0	1.750084	1480	24.66667	28.9956	20.14089	Stalled	chr1:187184973-187252234	65.262
Wdr37	105	0	1.750084	578	9.633333	6.695	27.86705	Stalled	chr13:8802213-8872288	68.076
Slc38a9	105	0	1.750084	289	4.816667	3.8158	14.4174	Stalled	chr13:113448983-113523106	72.124
Ppap2b	105	0	1.750084	161	2.683333	3.09982	11.6965	Stalled	chr4:104827951-104905372	75.422
Trip11	105	0	1.750084	533	8.883333	5.55737	29.04376	Stalled	chr12:103075582-103153381	75.8
Gxylt2	105	0	1.750084	104	1.733333	0.063169	0.977128	Unclassified	chr6:100652727-100755075	100.349
Iqck	105	0	1.750084	171	2.85	0.097046	79.57419	Stalled	chr7:125997288-126116166	116.879
Tll2	105	0	1.750084	172	2.866667	0.346182	6.218367	Unclassified	chr19:41158470-41283264	122.795
Osbpl9	105	57	1.750084	1081	18.01667	15.2003	6.769096	Stalled	chr4:108733749-108876845	141.097
Tle4	105	0	1.750084	1818	30.3	8.80105	16.58027	Stalled	chr19:14522561-14674473	149.913
Hist1h4h	104	49	1.733416	0	0	0	450	Unclassified	chr13:23620918-23623388	0.471
Med11	104	0	1.733416	22	0.366667	31.7116	10.31342	Unclassified	chr11:70263432-70267228	1.797
Rpl29	104	0	1.733416	89	1.483333	37.1573	3.878374	Stalled	chr9:106329869-106333898	2.03
Tmem42	104	0	1.733416	10	0.166667	5.87525	29.55203	Stalled	chr9:122928443-122932608	2.166
Serp1	104	0	1.733416	188	3.133333	145.033	6.722068	Stalled	chr3:58325897-58331806	3.91
Cycs	104	0	1.733416	66	1.1	1.99127	14.16068	Stalled	chr6:50512561-50518473	3.913
Phb2	104	0	1.733416	243	4.05	149.902	5.205418	Stalled	chr6:124660306-124666963	4.658
H2-gs10	104	0	1.733416	213	3.55	137.635	7.386494	Stalled	chr17:35514561-35521619	5.059
Pop5	104	0	1.733416	281	4.683333	33.5332	0.390245	Stalled	chr5:115683859-115690979	5.121
Mrpl44	104	0	1.733416	54	0.9	20.5183	11.74922	Stalled	chr1:79770592-79778020	5.429
Amigo1	104	0	1.733416	47	0.783333	0.622783	1.727704	Elongating	chr3:107987252-107994695	5.444
Rps24	104	0	1.733416	403	6.716667	163.031	4.330326	Stalled	chr14:25307902-25315368	5.467
Ndufb9	104	0	1.733416	131	2.183333	83.9924	16.04252	Stalled	chr15:58763364-58771044	5.681
Mpg	104	0	1.733416	179	2.983333	13.8842	5.982562	Stalled	chr11:32124504-32132701	6.198
Alg10b	104	0	1.733416	51	0.85	5.47702	25.458	Stalled	chr15:90052741-90060985	6.245
Rab25	104	0	1.733416	27	0.45	0.483635	0.65137	Unclassified	chr3:88345950-88354201	6.252
Vhl	104	0	1.733416	107	1.783333	6.22376	9.25613	Stalled	chr6:113572014-113581627	7.614
Srp9	104	0	1.733416	146	2.433333	36.4965	14.35054	Stalled	chr1:184052867-184062546	7.68
Ggct	104	0	1.733416	24	0.4	7.14998	29.71632	Stalled	chr6:54935088-54944861	7.774
Sfxn3	104	0	1.733416	59	0.983333	3.05499	6.643627	Stalled	chr19:45120090-45130873	8.784
Ndufa5	104	0	1.733416	43	0.716667	38.9677	35.53688	Stalled	chr6:24468665-24479687	9.023
Ndufb3	104	0	1.733416	60	1	26.7959	15.02791	Stalled	chr1:58641442-58652792	9.351
Rbm4	104	0	1.733416	198	3.3	12.7838	13.71526	Stalled	chr19:4784292-4795877	9.586
Igsf6	104	0	1.733416	88	1.466667	0	1.456677	Stalled	chr7:128207580-128220044	10.465
Slc16a3	104	0	1.733416	193	3.216667	27.4176	0.704974	Stalled	chr11:120807797-120820314	10.518
Slc25a28	104	0	1.733416	190	3.166667	24.9441	16.0223	Stalled	chr19:43738291-43751371	11.081
6720456B07Rik	104	0	1.733416	223	3.716667	80.3641	11.55432	Stalled	chr6:113552765-113566945	12.181
Zfp658	104	0	1.733416	106	1.766667	0.539049	12.39068	Stalled	chr7:50815739-50830831	13.093
Hsd1l	104	0	1.733416	140	2.333333	5.52987	8.19026	Stalled	chr8:122085878-122101100	13.223
Serpinb9	104	0	1.733416	135	2.25	3.78849	8.001302	Stalled	chr13:33094409-33109824	13.416
Dnajc14	104	0	1.733416	140	2.333333	12.1042	21.40204	Stalled	chr10:128240731-128256502	13.772
Alg5	104	0	1.733416	194	3.233333	12.0743	24.18012	Stalled	chr3:54537460-54553717	14.258
Zfp583	104	0	1.733416	46	0.766667	0.375451	1.843168	Unclassified	chr7:6267266-6284036	14.771
Ublcp1	104	0	1.733416	84	1.4	2.53952	45.38511	Stalled	chr11:44268078-44286050	15.973
Ncaph2	104	0	1.733416	804	13.4	36.5731	4.654992	Stalled	chr15:89184152-89203259	17.108
Slc25a32	104	0	1.733416	143	2.383333	4.84753	40.17976	Stalled	chr15:38925736-38946262	18.527
Ctla	104	0	1.733416	672	11.2	190.268	10.6138	Stalled	chr4:44023514-44045718	20.205
Tmem231	104	0	1.733416	97	1.616667	1.86871	14.64084	Stalled	chr8:114435917-114459691	21.775
Psmb1	104	0	1.733416	329	5.483333	93.7573	17.40268	Stalled	chr17:15612684-15637240	22.557
Ano7	104	0	1.733416	130	2.166667	0.426281	1.984061	Unclassified	chr1:95268472-95300079	29.608
Uchl5	104	0	1.733416	265	4.416667	19.2005	30.75869	Stalled	chr1:145622407-145654596	30.19
Eif2a	104	0	1.733416	329	5.483333	14.6926	38.55701	Stalled	chr3:58327742-58361423	31.682
Dcaf13	104	0	1.733416	269	4.483333	20.6968	38.77359	Stalled	chr15:38942419-38978401	33.983
Lpcat3	104	0	1.733416	1125	18.75	19.4544	6.446036	Stalled	chr6:124611121-124654734	41.614
Mettl9	104	0	1.733416	313	5.216667	10.3369	26.04578	Stalled	chr7:128175958-128220349	42.392
Cd38	104	94	1.733416	279	4.65	5.705	13.89413	Stalled	chr5:44258065-44303613	43.549
Tatdn1	104	0	1.733416	571	9.516667	6.72638	33.30935	Stalled	chr15:58721707-58767285	43.579
Pygb	104	0	1.733416	842	14.03333	33.8312	13.24642	Stalled	chr2:150610531-150657484	44.954
Akt2	104	0	1.733416	728	12.13333	20.5352	10.71166	Stalled	chr7:28374578-28424472	47.895
Stam2	104	0	1.733416	244	4.066667	2.95797	40.16872	Stalled	chr2:52547724-52603183	53.46
Rnf160	104	0	1.733416	598	9.966667	4.83941	16.58077	Stalled	chr16:87376895-87434851	55.957
Enpp3	104	0	1.733416	105	1.75	0.077399	0	Unclassified	chr10:24493619-24558001	62.383
X99384	104	0	1.733416	133	2.216667	0.362756	1.925828	Unclassified	chr10:60782404-60848271	63.868
Pemt	104	0	1.733416	198	3.3	1.04498	2.230101	Unclassified	chr11:59784118-59852341	66.224
Upf2	104	0	1.733416	551	9.183333	6.88259	24.33949	Stalled	chr2:5870514-5977749	105.236
Cnih3	104	0	1.733416	136	2.266667	0.202951	1.321091	Unclassified	chr1:183280758-183390772	108.015
Notch2	104	0	1.733416	1932	32.2	9.01141	18.6553	Stalled	chr3:97815460-97954290	136.831
Kif5c	104	62	1.733416	345	5.75	0.788529	1.855574	Unclassified	chr2:49472833-49630298	155.466
Kank1	104	0	1.733416	211	3.516667	0.078177	1.445848	Unclassified	chr19:25309691-25508986	197.296
Map2k5	104	0	1.733416	1350	22.5	13.767	23.17488	Stalled	chr9:63011576-63227659	214.084
Rps8	103	0	1.716749	204	3.4	0	3.230806	Stalled	chr4:116826440-116830737	2.298
Mchr1	103	0	1.716749	1	0.016667	0.241362	3.435897	Unclassified	chr15:81064203-81068542	2.34
2810428I15Rik	103	0	1.716749	23	0.383333	26.9369	19.92084	Stalled	chr8:73028194-73032638	2.445
Fgfbp1	103	0	1.716749	8	0.133333	0.066349	0.768982	Unclassified	chr5:44370098-44375001	2.904
Rpl9	103	0	1.716749	185	3.083333	0	6.09411	Stalled	chr5:65779602-65784670	3.069
1700020L24Rik	103	0	1.716749	52	0.866667	7.91365	0	Stalled	chr11:83249195-83254734	3.54
Rbmxrt	103	0	1.716749	52	0.866667	27.6372	13.14411	Stalled	chr8:81029167-81034827	3.661
Dohh	103	0	1.716749	106	1.766667	37.4809	6.576879	Stalled	chr10:80845172-80851095	3.924
Vwa1	103	0	1.716749	106	1.766667	1.20805	0.228149	Stalled	chr4:155142603-155150670	6.068
Idi1	103	0	1.716749	125	2.083333	28.2259	23.20169	Stalled	chr13:8883219-8891641	6.243
Ndufb2	103	0	1.716749	102	1.7	35.3946	13.48438	Stalled	chr6:39540581-39549470	6.89
Ndufa4	103	0	1.716749	67	1.116667	97.3956	24.857	Stalled	chr6:11850372-11859446	7.075
Nr2f6	103	0	1.716749	130	2.166667	4.70259	1.248767	Elongating	chr8:73898017-73907851	7.835
Zfp146	103	0	1.716749	153	2.55	10.6294	11.11285	Stalled	chr7:30946286-30956746	8.461

Ranbp1	103	0	1.716749	402	6.7	166.775	10.43456	Stalled	chr16:18240071-18250787	8.717
Retsat	103	0	1.716749	244	4.066667	4.03501	4.182878	Stalled	chr6:72546621-72557482	8.862
Pomgnt1	103	0	1.716749	126	2.1	5.75871	9.733607	Stalled	chr4:115821122-115832449	9.328
Khk	103	0	1.716749	26	0.433333	5.32292	21.88368	Stalled	chr5:31222267-31233619	9.353
Cacybp	103	0	1.716749	175	2.916667	41.0956	16.5734	Stalled	chr1:162133051-162144908	9.858
Gm5113	103	0	1.716749	34	0.566667	2.73579	51.07029	Stalled	chr7:30952940-30965228	10.289
Alg1	103	0	1.716749	203	3.383333	13.8281	12.49409	Stalled	chr16:5231713-5245001	11.289
Kdelr3	103	0	1.716749	267	4.45	1.161	0.335295	Stalled	chr15:79344837-79358168	11.332
Rpp14	103	0	1.716749	228	3.8	10.9544	9.450544	Stalled	chr14:8910826-8924359	11.534
4930444A02Rik	103	0	1.716749	80	1.333333	1.25626	13.93721	Stalled	chr8:27091075-27106593	13.519
Poir3f	103	0	1.716749	156	2.6	3.05276	11.87643	Stalled	chr2:144351480-144367515	14.036
Tox4	103	0	1.716749	351	5.85	9.75588	9.939555	Stalled	chr14:52896820-52915184	16.365
Hpn	103	0	1.716749	122	2.033333	1.20459	0.339478	Stalled	chr7:31883743-31902309	16.567
Rab2b	103	0	1.716749	73	1.216667	14.7577	62.17739	Stalled	chr14:52881434-52901070	17.637
Coil	103	0	1.716749	184	3.066667	6.02075	10.05721	Stalled	chr11:88833248-88852927	17.68
Lias	103	0	1.716749	161	2.683333	8.84388	49.27685	Stalled	chr5:65780735-65800446	17.712
Hdac3	103	0	1.716749	123	2.05	19.447	14.46419	Stalled	chr18:38096624-38116642	18.019
Bnip3	103	0	1.716749	60	1	6.58643	22.29704	Stalled	chr7:146082518-146103189	18.672
Mcee	103	0	1.716749	51	0.85	6.75701	29.63518	Stalled	chr7:71535656-71557005	19.35
Aph1b	103	0	1.716749	9	0.15	0.989455	23.04718	Stalled	chr9:66623293-66645230	19.938
Zfp444	103	0	1.716749	231	3.85	3.37345	13.3699	Stalled	chr7:6122114-6144706	20.593
Rnpep	103	0	1.716749	284	4.733333	24.9837	10.381	Stalled	chr1:137159276-137182661	21.386
Aldh3a2	103	0	1.716749	221	3.683333	8.87601	28.21953	Stalled	chr11:61058256-61082629	22.374
Usp30	103	0	1.716749	290	4.833333	5.04308	3.534235	Stalled	chr5:114548341-114572933	22.593
Rab23	103	0	1.716749	205	3.416667	2.39977	11.47123	Stalled	chr1:33774740-33799407	22.668
Fam134c	103	0	1.716749	188	3.133333	13.6422	35.17185	Stalled	chr11:100957635-100983138	23.504
Zfp426	103	0	1.716749	195	3.25	7.41636	25.19793	Stalled	chr9:20272992-20299190	24.199
Wdr3	103	0	1.716749	283	4.716667	10.4677	24.41948	Stalled	chr3:99942104-99968326	24.223
Ccnt1	103	0	1.716749	534	8.9	13.5997	22.02216	Stalled	chr15:98373641-98400067	24.427
Rpia	103	0	1.716749	206	3.433333	30.1483	15.83797	Stalled	chr6:70715713-70744169	26.457
BC060267	103	0	1.716749	297	4.95	0.296418	1.566384	Elongating	chr6:115760746-115790430	27.685
Stab1	103	0	1.716749	86	1.433333	0.096658	2.247605	Unclassified	chr14:31952202-31983827	29.626
Fam65c	103	0	1.716749	196	3.266667	0.065501	0.384446	Stalled	chr2:167806285-167838093	29.809
Pi4kb	103	0	1.716749	927	15.45	13.7119	8.215976	Stalled	chr3:94776652-94810765	32.114
Stk30	103	0	1.716749	155	2.583333	1.52897	1.88932	Unclassified	chr12:112046007-112081149	33.143
Cog4	103	0	1.716749	491	8.183333	11.9774	23.12449	Stalled	chr8:113368923-113406134	35.212
Myb	103	0	1.716749	350	5.833333	3.24874	10.56079	Stalled	chr10:20844735-20882790	36.056
Sf3b3	103	0	1.716749	1381	23.01667	35.9318	9.449625	Stalled	chr8:113334391-113372703	36.313
Nktr	103	0	1.716749	854	14.23333	16.2319	13.46018	Stalled	chr9:121626298-121665959	37.662
Ift172	103	0	1.716749	175	2.916667	1.93343	14.95447	Stalled	chr5:31555652-31595487	37.836
Smyd2	103	0	1.716749	748	12.46667	11.9446	4.396347	Stalled	chr1:191704370-191748167	41.798
Gdap2	103	0	1.716749	295	4.916667	4.73532	41.73585	Stalled	chr3:99964440-100010904	44.465
Gopc	103	0	1.716749	169	2.816667	7.27811	55.56306	Stalled	chr10:52056887-52103881	44.995
Gnaz	103	0	1.716749	395	6.583333	7.66224	4.628653	Stalled	chr10:74427975-74478622	48.648
Fam3c	103	0	1.716749	974	16.23333	10.3029	10.21026	Stalled	chr6:22256521-22308081	49.561
6330439K17Rik	103	0	1.716749	55	0.916667	0.138787	70.02857	Stalled	chr2:144296292-144355134	56.843
Rad50	103	0	1.716749	519	8.65	7.77838	46.1675	Stalled	chr11:53463020-53522821	57.802
Irak3	103	0	1.716749	272	4.533333	4.02725	23.84693	Stalled	chr10:119578709-119640593	59.885
Usp40	103	0	1.716749	670	11.16667	1.61674	7.842017	Stalled	chr1:89841695-89907126	63.432
Pik3r1	103	0	1.716749	701	11.68333	4.22338	31.72975	Stalled	chr13:102450717-102540172	67.456
Slc24a4	103	0	1.716749	242	4.033333	0.055137	1.441401	Unclassified	chr12:103365628-103504959	137.332
Ica1	103	0	1.716749	319	5.316667	1.01261	1.576952	Unclassified	chr6:8580526-8730484	147.959
Sorbs1	103	0	1.716749	543	9.05	1.00975	38.14615	Stalled	chr19:40366529-40590226	221.698
Baz2b	103	0	1.716749	1509	25.15	5.00277	10.91563	Stalled	chr2:59737419-59965797	226.379
Gm10941	102	0	1.700081	2	0.033333	6.99465	39.12245	Unclassified	chr10:76720519-76723968	1.45
Rag1ap1	102	0	1.700081	62	1.033333	22.0405	4.460064	Stalled	chr3:89072167-89076492	2.326
Haghl	102	0	1.700081	50	0.833333	12.7914	5.74568	Stalled	chr17:25919769-25924278	2.51
Ubxn1	102	0	1.700081	80	1.333333	85.9316	7.011059	Stalled	chr19:8944048-8950146	4.099
Zbtb45	102	0	1.700081	66	1.1	5.49036	9.253414	Stalled	chr7:13591014-13597149	4.136
Alg2	102	0	1.700081	50	0.833333	10.0872	23.7116	Stalled	chr4:47482704-47489239	4.536
Rpl23	102	0	1.700081	441	7.35	421.712	4.373318	Stalled	chr11:97638839-97645753	4.915
Slc32a1	102	0	1.700081	17	0.283333	0.292422	0.950646	Unclassified	chr2:158434493-158441483	4.991
Il27	102	0	1.700081	16	0.266667	0.290867	1.56759	Unclassified	chr7:133732808-133740424	5.617
Mrps14	102	0	1.700081	96	1.6	13.1906	9.765377	Stalled	chr1:162123390-162131317	5.928
Mad211bp	102	0	1.700081	36	0.6	16.021	30.75072	Stalled	chr17:46284334-46292500	6.167
Plekhhf1	102	0	1.700081	31	0.516667	1.923	11.88849	Stalled	chr7:39005672-39015013	7.342
Pofut2	102	0	1.700081	189	3.15	8.04414	9.883442	Stalled	chr10:76720044-76732331	10.288
Prkrir	102	0	1.700081	145	2.416667	9.27096	22.35854	Stalled	chr7:105849872-105866571	14.7
Metrn1	102	0	1.700081	42	0.7	1.568	10.97877	Stalled	chr11:121561740-121578703	14.964
Nfyb	102	0	1.700081	306	5.1	7.41146	15.14418	Stalled	chr10:82211444-82228886	15.443
Dusp11	102	0	1.700081	314	5.233333	7.36349	18.67953	Stalled	chr6:85892264-85913689	19.426
Tmem143	102	0	1.700081	182	3.033333	6.39191	24.69342	Stalled	chr7:53150438-53172783	20.346
Rsrc2	102	0	1.700081	465	7.75	15.8601	13.02093	Stalled	chr5:124178438-124201421	20.984
Mfsd1	102	0	1.700081	130	2.166667	12.4441	17.13747	Stalled	chr3:67384689-67408153	21.465
Lgals8	102	59	1.700081	395	6.583333	4.17177	9.471057	Stalled	chr13:12531685-12555757	22.073
4931414P19Rik	102	0	1.700081	413	6.883333	2.24084	5.333193	Stalled	chr14:55202499-55226745	22.247
Azi2	102	0	1.700081	161	2.683333	5.7679	31.5238	Stalled	chr9:117947616-117973025	23.41
Pdia3	102	0	1.700081	593	9.883333	140.549	20.7091	Stalled	chr2:121237637-121264422	24.786
Aldh4a1	102	0	1.700081	104	1.733333	6.26954	31.40329	Stalled	chr4:139176808-139205605	26.798
2810403A07Rik	102	0	1.700081	549	9.15	13.9388	15.58871	Stalled	chr3:88487715-88516853	27.139
Pcx	102	0	1.700081	231	3.85	2.04508	0.308058	Stalled	chr19:4592318-4621752	27.435
Zfp1	102	0	1.700081	326	5.433333	6.17101	16.73012	Stalled	chr8:114165342-114194911	27.57
Zfp346	102	0	1.700081	443	7.383333	5.38655	15.48668	Stalled	chr13:55204669-55236432	29.764
Ctsp	102	0	1.700081	688	11.46667	13.2039	16.76683	Stalled	chr4:120212472-120244801	30.41
Polh	102	0	1.700081	220	3.666667	10.0487	37.51229	Stalled	chr17:46308941-46341574	30.634
Cand2	102	0	1.700081	1001	16.68333	3.1888	0.960233	Stalled	chr6:115722574-115755573	31

Heatr2	102	0	1.700081	414	6.9	6.45765	6.989512	Stalled	chr5:139624176-139662459	36.284
Baz2a	102	0	1.700081	638	10.63333	16.6219	6.170658	Stalled	chr10:127527838-127566359	36.522
Ptgis	102	0	1.700081	99	1.65	0.212264	0.805575	Unclassified	chr2:167028695-167068037	37.343
Npat	102	0	1.700081	328	5.466667	3.30966	30.63454	Stalled	chr9:53343151-53383732	38.582
Aspm	102	0	1.700081	331	5.516667	4.70519	13.79888	Stalled	chr1:141349349-141390665	39.317
Xpo5	102	0	1.700081	653	10.88333	9.83061	19.294	Stalled	chr17:46337803-46379248	39.446
Srl	102	0	1.700081	305	5.083333	0.774881	1.085391	Stalled	chr16:4480227-4525053	42.827
Gmps	102	0	1.700081	293	4.883333	7.72546	29.67444	Stalled	chr3:63778064-63823000	42.937
Mtf2	102	0	1.700081	401	6.683333	9.01201	36.80246	Stalled	chr5:108492760-108538021	43.262
Apf	102	0	1.700081	58	0.966667	3.68817	53.88181	Stalled	chr6:87578422-87624162	43.741
Setd7	102	0	1.700081	716	11.93333	4.31562	11.2949	Stalled	chr3:51319239-51366745	45.507
Elfn2	102	0	1.700081	128	2.133333	0.121282	0.807068	Unclassified	chr15:78500436-78550543	48.108
Csnk2a1	102	0	1.700081	657	10.95	11.8639	34.33675	Stalled	chr2:152050575-152107587	55.013
Orc5l	102	0	1.700081	308	5.133333	4.64869	55.92249	Stalled	chr5:21992306-22058149	63.844
Kntc1	102	0	1.700081	495	8.25	4.1623	34.56603	Stalled	chr5:124197734-124271602	71.869
Stam	102	0	1.700081	214	3.566667	3.37567	43.08258	Stalled	chr2:13993738-14069957	74.22
Atm	102	0	1.700081	745	12.41667	6.32482	34.23082	Stalled	chr9:53245226-53346776	99.551
Eftud1	102	48	1.700081	2244	37.4	14.4887	13.35248	Stalled	chr7:89795123-89926362	129.24
Ccdc91	102	0	1.700081	298	4.966667	3.51724	53.20229	Stalled	chr6:147422392-147581134	156.743
Tns3	102	0	1.700081	1026	17.1	2.3733	3.686903	Stalled	chr11:8331654-8566538	232.885
Col23a1	102	0	1.700081	500	8.333333	0.253385	4.064374	Unclassified	chr11:51101421-51397427	294.007
Kirrel3	102	0	1.700081	544	9.066667	0.173287	2.004722	Unclassified	chr9:34294315-34843889	547.575
Sf3b5	101	0	1.683414	0	0	104.94	200	Unclassified	chr10:12726255-12728988	0.734
Rfp136al	101	0	1.683414	8	0.133333	244.405	22.25861	Unclassified	chr12:70283722-70287054	1.333
Tbcc	101	0	1.683414	21	0.35	15.8236	10.74126	Unclassified	chr17:47025569-47029412	1.844
Mgat2	101	0	1.683414	55	0.916667	47.9348	15.4797	Stalled	chr12:70283144-70287760	2.617
Socs3	101	0	1.683414	544	9.066667	30.8679	1.731322	Elongating	chr11:117827402-117832680	3.279
Tmem101	101	0	1.683414	17	0.283333	11.3928	8.069278	Stalled	chr11:102013860-102019721	3.862
Hspa8	101	0	1.683414	255	4.25	169.441	6.209547	Stalled	chr9:40607355-40613282	3.928
Hspb7	101	0	1.683414	34	0.566667	0.106494	0.753044	Unclassified	chr4:140974693-140981225	4.533
Slc2a4	101	0	1.683414	10	0.166667	0.48557	2.962163	Unclassified	chr11:69755787-69763692	5.906
Fbxo5	101	0	1.683414	130	2.166667	10.2884	15.81216	Stalled	chr10:4539075-4547383	6.309
Sfrs7	101	0	1.683414	296	4.933333	42.9994	12.07687	Stalled	chr17:80599419-80608625	7.207
Mrpl23	101	0	1.683414	144	2.4	17.0688	9.283176	Stalled	chr7:149717021-149726647	7.627
Rccd1	101	0	1.683414	270	4.5	11.8107	7.087489	Stalled	chr7:87461523-87471310	7.788
Dnase1l1	101	0	1.683414	570	9.5	1.72809	0.87242	Stalled	chrX:71518556-71529075	8.52
Abcb6	101	0	1.683414	149	2.483333	10.2284	6.782998	Stalled	chr1:75168214-75178857	8.644
Timm22	101	0	1.683414	99	1.65	7.67463	9.609426	Stalled	chr11:76218691-76229794	9.104
Nolc1	101	0	1.683414	505	8.416667	44.3112	6.598761	Stalled	chr19:46148352-46160020	9.669
Rmnd5b	101	0	1.683414	768	12.8	10.5626	2.405692	Elongating	chr11:51437174-51451398	12.225
Zfp12	101	0	1.683414	101	1.683333	3.1366	19.82157	Stalled	chr5:143994886-144009649	12.764
1190002H23Rik	101	0	1.683414	125	2.083333	5.88817	11.72314	Stalled	chr14:79688556-79703442	12.887
Mmab	101	0	1.683414	108	1.8	8.71727	24.09096	Stalled	chr5:114881042-114896036	12.995
Zfp622	101	0	1.683414	218	3.633333	31.4223	16.85739	Stalled	chr15:25912120-25928237	14.118
Zfp110	101	0	1.683414	190	3.166667	5.63841	16.2353	Stalled	chr7:13418158-13435933	15.776
Mvk	101	0	1.683414	300	5	21.458	10.90867	Stalled	chr5:114892314-114910599	16.286
Ccdc47	101	0	1.683414	126	2.1	14.6194	36.4206	Stalled	chr11:106060669-106079681	17.013
Snrpd3	101	0	1.683414	371	6.183333	105.591	11.43005	Stalled	chr10:74978786-74998185	17.4
Brpf1	101	0	1.683414	417	6.95	16.1127	8.873165	Stalled	chr6:113255190-113274698	17.509
Ttc1	101	0	1.683414	209	3.483333	13.6198	17.49699	Stalled	chr11:43543507-43563475	17.969
2410066E13Rik	101	0	1.683414	52	0.866667	9.98824	4.558677	Stalled	chr6:54629765-54650400	18.636
mmu-mir-99b,r	101	0	1.683414	234	3.9	ND	ND	Stalled	chr17:17957681-17978695	21.015
Slc30a4	101	59	1.683414	106	1.766667	6.78934	14.7024	Stalled	chr2:122506974-122530399	21.426
Haus8	101	0	1.683414	114	1.9	6.95625	47.03238	Stalled	chr8:73775023-73798489	21.467
Sfxn2	101	0	1.683414	98	1.633333	2.6329	25.0542	Stalled	chr19:46645854-46671390	23.537
Ube2v1	101	0	1.683414	1009	16.81667	21.1094	4.36862	Stalled	chr2:167433138-167459505	24.368
B230208H17Rik	101	0	1.683414	547	9.116667	23.8914	8.464974	Stalled	chr2:25438537-25465966	25.43
Rangap1	101	0	1.683414	1582	26.36667	68.1381	3.731649	Stalled	chr15:81534677-81562349	25.673
Prcd	101	58	1.683414	269	4.483333	26.4706	10.53709	Stalled	chr3:87662825-87691484	26.66
Card10	101	0	1.683414	72	1.2	0.246601	2.448457	Unclassified	chr15:78605565-78635472	27.908
C77080	101	0	1.683414	411	6.85	0.844889	0.063498	Stalled	chr4:128896821-128927687	28.867
Ddx42	101	0	1.683414	462	7.7	20.7108	28.6707	Stalled	chr11:106076239-106110454	32.216
Brms11	101	0	1.683414	319	5.316667	7.29133	27.36193	Stalled	chr12:56935352-56970722	33.371
Vapa	101	0	1.683414	386	6.433333	30.2421	41.62839	Stalled	chr17:65929393-65964895	33.503
Hcd4	101	0	1.683414	986	16.43333	81.3922	6.737732	Stalled	chr6:125044180-125080519	34.34
Hadh	101	0	1.683414	227	3.783333	8.06195	12.36704	Stalled	chr3:130936341-130976955	38.615
Gnai3	101	0	1.683414	374	6.233333	21.068	37.37466	Stalled	chr3:107910216-107951032	38.817
Pitpna	101	0	1.683414	1032	17.2	61.9887	11.14266	Stalled	chr11:75399609-75442280	40.672
Arl3	101	0	1.683414	153	2.55	23.1808	27.25135	Stalled	chr19:46605598-46649575	41.978
Dcp1a	101	0	1.683414	530	8.833333	8.03208	22.74273	Stalled	chr14:31290750-31340242	47.493
Itk	101	0	1.683414	238	3.966667	0.434844	0.210265	Unclassified	chr11:46138651-46205017	64.367
Ppa2	101	0	1.683414	366	6.1	5.99983	26.9085	Stalled	chr3:132971079-133041033	67.955
Ap1g1	101	0	1.683414	786	13.1	10.1249	29.43312	Stalled	chr8:112300539-112384835	82.297
Bcat1	101	0	1.683414	1461	24.35	2.92833	8.489145	Stalled	chr6:144942355-145026677	82.323
Fbrs11	101	0	1.683414	1148	19.13333	6.9973	14.45721	Stalled	chr5:110790770-110879522	86.753
Nup93	101	0	1.683414	936	15.6	14.4467	23.43865	Stalled	chr8:96736500-96838966	100.467
Gtf2f2	101	0	1.683414	948	15.8	17.2605	16.17954	Stalled	chr14:76296743-76412672	113.93
Cacna2d4	101	0	1.683414	408	6.8	0.359935	0.439421	Unclassified	chr6:119184543-119302425	115.883
493045I11Rik	100	0	1.666747	0	0	0	5	Unclassified	chr7:133973987-133977010	1.024
Hes5	100	0	1.666747	72	1.2	11.3531	0.329193	Elongating	chr4:154333031-154336480	1.45
Tmem141	100	0	1.666747	1	0.016667	1.61571	5.81762	Unclassified	chr2:25475585-25479525	1.941
Gng3	100	0	1.666747	244	4.066667	5.01259	0.166677	Stalled	chr19:8911418-8915736	2.319
Nrarp	100	0	1.666747	10	0.166667	4.53314	19.6047	Stalled	chr2:25034277-25038852	2.576
Nrpl52	100	0	1.666747	55	0.916667	50.727	8.202927	Stalled	chr14:55043745-55048587	2.843
Stoml2	100	0	1.666747	52	0.866667	29.6056	10.35103	Stalled	chr4:43040561-43046256	3.696
Fdxacb1	100	0	1.666747	59	0.983333	3.82755	10.17539	Stalled	chr9:50574342-50580775	4.434

Snai1	100	0	1.666747	47	0.783333	3.76524	11.83849	Stalled	chr2:167361726-167368311	4.586
A430005L14Rik	100	0	1.666747	75	1.25	4.68771	7.497045	Stalled	chr4:153329345-153336031	4.687
1110032A03Rik	100	0	1.666747	21	0.35	5.87415	30.91708	Stalled	chr9:50570932-50578257	5.326
Orai3	100	0	1.666747	172	2.866667	13.5248	6.714422	Stalled	chr7:134911328-134918664	5.337
Cks2	100	0	1.666747	113	1.883333	23.2589	13.66224	Stalled	chr13:51738600-51746031	5.432
Mmachc	100	0	1.666747	94	1.566667	4.19648	6.657191	Stalled	chr4:116375038-116382990	5.953
6330545A04Rik	100	0	1.666747	28	0.466667	1.95374	5.290712	Stalled	chr4:140767870-140776029	6.16
Ccdc163	100	0	1.666747	22	0.366667	4.99263	14.0942	Stalled	chr4:116379534-116387709	6.176
Ccng1	100	0	1.666747	80	1.333333	27.9473	17.5286	Stalled	chr11:40562053-40570788	6.736
Lrrc46	100	0	1.666747	29	0.483333	3.21862	27.87518	Stalled	chr11:96895915-96904683	6.769
Mapk11	100	0	1.666747	74	1.233333	9.40085	3.668713	Stalled	chr15:88972913-88982036	7.124
Mrpl10	100	0	1.666747	171	2.85	16.3931	6.568207	Stalled	chr11:96900899-96910527	7.629
Ing2	100	0	1.666747	226	3.766667	6.73936	12.01716	Stalled	chr8:48752531-48762512	7.982
5730577I03Rik	100	0	1.666747	23	0.383333	3.91003	67.90603	Stalled	chr9:20409918-20420351	8.434
Decr2	100	0	1.666747	26	0.433333	3.28305	10.30835	Stalled	chr17:26218155-26229109	8.955
Ncbp2	100	0	1.666747	190	3.166667	20.7591	14.04762	Stalled	chr16:31946631-31958558	9.928
Bscl2	100	0	1.666747	240	4	10.6391	9.146493	Stalled	chr19:8909956-8923172	11.217
Gpatch4	100	0	1.666747	280	4.666667	27.5441	8.87726	Stalled	chr3:87845029-87859914	12.886
Atf3	100	0	1.666747	223	3.716667	4.48146	11.37023	Stalled	chr1:192994175-193009212	13.038
3230401D17Rik	100	0	1.666747	131	2.183333	4.652	21.31082	Stalled	chr2:163231557-163247206	13.65
Drg2	100	0	1.666747	406	6.766667	17.2605	4.778854	Stalled	chr11:60266118-60282207	14.09
Pdc1	100	0	1.666747	127	2.116667	2.63905	3.306143	Stalled	chr1:95934883-95951130	14.248
Bud13	100	0	1.666747	167	2.783333	9.80343	20.64301	Stalled	chr9:46089094-46106866	15.773
Ctns	100	0	1.666747	67	1.116667	2.57083	20.54445	Stalled	chr11:72996634-73014521	15.888
Ntan1	100	0	1.666747	461	7.683333	14.5539	8.222082	Stalled	chr16:13817369-13835543	16.175
Rg9mtd2	100	0	1.666747	110	1.833333	6.24866	63.07133	Stalled	chr3:137804501-137822784	16.284
1700030K09Rik	100	0	1.666747	495	8.25	9.19466	3.680399	Stalled	chr8:74965778-74984439	16.662
Ints12	100	0	1.666747	112	1.866667	2.55027	64.76674	Stalled	chr3:132752916-132773949	19.034
Calr3	100	0	1.666747	57	0.95	1.16278	30.50423	Stalled	chr8:74948081-74969677	19.597
Wee1	100	0	1.666747	284	4.733333	10.3781	16.50008	Stalled	chr7:117263572-117286813	21.242
Stradb	100	0	1.666747	50	0.833333	4.53439	81.85611	Stalled	chr1:59028414-59051965	21.552
Sic12a4	100	0	1.666747	171	2.85	5.09206	10.36469	Stalled	chr8:108467492-108491939	22.448
Gtf2h2	100	0	1.666747	137	2.283333	8.39301	19.8626	Stalled	chr13:101238531-101264564	24.034
Tmem72	100	0	1.666747	49	0.816667	0.115076	0.63955	Unclassified	chr6:116642742-116668776	24.035
Shpk	100	0	1.666747	57	0.95	2.60318	38.8444	Stalled	chr11:73010983-73038008	25.026
Fxyd6	100	0	1.666747	38	0.633333	0.47203	2.776169	Unclassified	chr9:45176267-45204242	25.976
Incenp	100	0	1.666747	963	16.05	59.0684	8.964925	Stalled	chr19:9946786-9976023	27.238
Zdhhc5	100	0	1.666747	294	4.9	9.25191	28.5206	Stalled	chr2:84528076-84557321	27.246
Rnf141	100	0	1.666747	141	2.35	2.95023	19.03456	Stalled	chr7:117960048-117989895	27.848
D230025D16Rik	100	0	1.666747	173	2.883333	5.18324	45.43252	Stalled	chr8:107747087-107776951	27.865
Gm572	100	0	1.666747	64	1.066667	0.111044	1.194736	Unclassified	chr4:148015425-148045681	28.257
Suclg1	100	0	1.666747	335	5.583333	40.3036	12.92968	Stalled	chr6:73196498-73226899	28.402
Btla	100	58	1.666747	456	7.6	8.77014	5.300438	Stalled	chr16:45222449-45253008	28.56
Wdr91	100	0	1.666747	326	5.433333	9.52355	11.91481	Stalled	chr6:34830425-34862831	30.407
Cat	100	0	1.666747	179	2.983333	15.5469	35.99743	Stalled	chr2:103294060-103327310	31.251
Rnf185	100	0	1.666747	212	3.533333	5.13822	36.438	Stalled	chr11:3315985-3354328	36.344
Sic6a3	100	0	1.666747	51	0.85	0.163171	1.780848	Unclassified	chr13:73672194-73716120	41.927
Sic39a10	100	0	1.666747	157	2.616667	2.15316	95.96012	Stalled	chr1:46864388-46912354	45.967
Phf17	100	0	1.666747	1623	27.05	4.40351	11.02574	Stalled	chr3:41366801-41420786	51.986
Rnf182	100	0	1.666747	52	0.866667	0.197847	0.999249	Unclassified	chr13:43709351-43764272	52.922
Vps45	100	0	1.666747	271	4.516667	11.0165	24.02286	Stalled	chr3:95803755-95864378	58.624
Tmem26	100	0	1.666747	176	2.933333	3.40304	18.07289	Stalled	chr10:68184493-68245402	58.91
Stxbp1	100	0	1.666747	231	3.85	2.45769	8.096897	Stalled	chr2:32643126-32704752	59.627
Abhd12	100	0	1.666747	449	7.483333	12.4236	36.14168	Stalled	chr2:150658250-150732467	72.218
Trak2	100	0	1.666747	594	9.9	6.57453	30.39117	Stalled	chr1:58957293-59032326	73.034
Nfat5	100	0	1.666747	316	5.266667	3.8512	57.46998	Stalled	chr8:109815369-109903417	86.049
Shoc2	100	0	1.666747	293	4.883333	9.56133	35.384	Stalled	chr19:54017365-54107768	88.404
Kctd1	100	0	1.666747	734	12.23333	9.28379	14.06375	Stalled	chr18:15127194-15224091	94.898
Gstcd	100	0	1.666747	473	7.883333	5.10293	100.337	Stalled	chr3:132645514-132756704	109.191
Grb11	100	55	1.666747	301	5.016667	0.645221	0.440275	Unclassified	chr18:10323176-10562939	237.764
Scfd2	100	0	1.666747	1250	20.83333	7.79977	33.29803	Stalled	chr5:74600840-74929774	326.935
Rps15	99	0	1.650079	153	2.55	920.495	1.860389	Unclassified	chr10:79753175-79756858	1.684
2210404O07Rik	99	0	1.650079	7	0.116667	2.22769	3.171386	Stalled	chr10:80853808-80857824	2.017
1700037C18Rik	99	0	1.650079	53	0.883333	10.875	6.793598	Stalled	chr16:3905797-3910689	2.893
Timm10	99	0	1.650079	37	0.616667	24.2626	6.381487	Stalled	chr2:84665177-84670370	3.194
Ppp1r11	99	0	1.650079	141	2.35	53.1545	3.719317	Stalled	chr17:37085299-37090734	3.436
Tubb2a	99	0	1.650079	30	0.5	9.22501	21.53416	Stalled	chr13:34166146-34171877	3.732
2310033E01Rik	99	0	1.650079	8	0.133333	3.07143	3.836197	Unclassified	chr7:25326676-25333024	4.349
Lypla2	99	0	1.650079	129	2.15	45.4087	5.118727	Stalled	chr4:135524139-135530509	4.371
Brf2	99	0	1.650079	57	0.95	10.9511	6.190553	Stalled	chr8:28234303-28241104	4.802
Camk2n1	99	0	1.650079	9	0.15	0.296145	2.453005	Unclassified	chr4:138009062-138016041	4.98
1110002N22Rik	99	0	1.650079	103	1.716667	3.70393	11.37193	Stalled	chr11:79950179-79957655	5.477
Ftsjd1	99	0	1.650079	47	0.783333	1.90207	12.31895	Stalled	chr8:112739859-112748389	6.531
5133401N09Rik	99	0	1.650079	99	1.65	8.42186	5.921772	Stalled	chr13:58257014-58266052	7.039
Cdk10	99	0	1.650079	70	1.166667	7.80312	21.15829	Stalled	chr8:125746740-125756155	7.416
Abhd14a	99	0	1.650079	34	0.566667	7.12636	15.66329	Stalled	chr9:106342381-106352009	7.629
Zfp646	99	0	1.650079	462	7.7	8.82719	0.761788	Stalled	chr7:135019214-135029509	8.296
Ufm1	99	0	1.650079	154	2.566667	7.38596	7.007426	Stalled	chr3:53659130-53669729	8.6
Gpr83	99	0	1.650079	17	0.283333	0.244717	2.613221	Unclassified	chr9:14662697-14673943	9.247
1110038D17Rik	99	0	1.650079	173	2.883333	7.4998	10.94241	Stalled	chr10:74969558-74982067	10.51
Psm2	99	0	1.650079	102	1.7	48.2878	29.10919	Stalled	chr16:20649724-20663485	11.762
Mtrf11	99	0	1.650079	162	2.7	4.09675	10.47922	Stalled	chr10:4520597-4534654	12.058
Uqcrc1	99	0	1.650079	323	5.383333	76.0077	7.610503	Stalled	chr9:108836660-108851686	13.027
Tbkbp1	99	0	1.650079	131	2.183333	0.257479	0.61167	Stalled	chr11:96997484-97013026	13.543
Prpf38a	99	0	1.650079	218	3.633333	23.9843	18.50676	Stalled	chr4:108237471-108253941	14.471
Zfp94	99	0	1.650079	129	2.15	2.03853	19.63049	Stalled	chr7:25086814-25103623	14.81

Gm9705	99	0	1.650079	43	0.716667	0.694502	0.24385	Unclassified	chr17:32756263-32773129	14.867
H2-T24	99	0	1.650079	290	4.833333	0	5.111131	Stalled	chr17:36142639-36159505	14.867
Cinp	99	0	1.650079	367	6.116667	9.19493	12.88149	Stalled	chr12:112110831-112129324	16.494
Dctn6	99	0	1.650079	176	2.933333	14.1189	19.20623	Stalled	chr8:35153476-35173565	18.09
Mctn2	99	0	1.650079	179	2.983333	18.5385	36.21689	Stalled	chr2:90685311-90706791	19.481
1500035H01Rik	99	0	1.650079	215	3.583333	4.80788	7.684288	Stalled	chr9:44579091-44600797	19.707
Acadm	99	0	1.650079	177	2.95	9.65784	30.11094	Stalled	chr3:153585322-153609396	22.075
Mrpl13	99	0	1.650079	179	2.983333	27.6016	26.6117	Stalled	chr15:55365649-55390867	23.219
Col8a2	99	0	1.650079	97	1.616667	0.050307	0.644449	Unclassified	chr4:125962037-125991574	27.538
Mphosph8	99	0	1.650079	204	3.4	8.9691	37.74767	Stalled	chr14:57285084-57316264	29.181
Cuap1	99	0	1.650079	397	6.616667	9.1424	14.76484	Stalled	chr16:3907008-3941147	32.14
Rint1	99	0	1.650079	253	4.216667	3.53992	29.55722	Stalled	chr5:23291561-23326187	32.627
Tesc	99	0	1.650079	211	3.516667	0.965986	0.270832	Stalled	chr5:118475832-118511879	34.048
Cspg4	99	0	1.650079	90	1.5	0.122591	0.272833	Unclassified	chr9:56710910-56747677	34.768
Orc11	99	0	1.650079	446	7.433333	4.70532	22.47185	Stalled	chr4:108250058-108287436	35.379
Tbce	99	0	1.650079	530	8.833333	9.41272	22.4394	Stalled	chr13:14090217-14133867	41.651
Sugt1	99	0	1.650079	280	4.666667	19.7578	37.85993	Stalled	chr14:79985497-80029562	42.066
Traf3ip2	99	0	1.650079	1144	19.06667	9.83725	7.679005	Stalled	chr10:39330739-39375113	42.375
Mtf1	99	0	1.650079	725	12.08333	3.31521	24.16841	Stalled	chr4:124477792-124527044	47.253
App12	99	0	1.650079	325	5.416667	1.27946	6.77477	Stalled	chr10:83062778-83113409	48.632
Chd11	99	0	1.650079	443	7.383333	7.19796	29.96674	Stalled	chr3:97364670-97416113	49.444
Suv420h1	99	0	1.650079	666	11.1	8.55179	9.476532	Stalled	chr19:3765420-3818302	50.883
Casc5	99	0	1.650079	563	9.383333	2.04428	23.79476	Stalled	chr2:118870854-118929857	57.004
Spsb1	99	0	1.650079	1117	18.61667	9.79351	9.925947	Stalled	chr4:149270392-149331115	58.724
Mtbp	99	0	1.650079	701	11.68333	6.92192	21.49226	Stalled	chr15:55386962-55457977	69.016
Bai1	99	0	1.650079	153	2.55	0.082327	0.64163	Unclassified	chr15:74344625-74419894	73.27
Olf56	99	0	1.650079	784	13.06667	14.9984	0	Stalled	chr11:48862234-48948889	84.656
Lmtk2	99	0	1.650079	688	11.46667	3.23804	18.14311	Stalled	chr5:144859304-144949073	87.77
Eif2c3	99	0	1.650079	203	3.383333	1.67607	91.53149	Stalled	chr4:126017921-126108786	88.866
2310035C23Rik	99	0	1.650079	401	6.683333	6.04409	53.28795	Stalled	chr1:107558437-107651708	91.272
Itfg1	99	0	1.650079	351	5.85	7.05078	73.16844	Stalled	chr8:88241455-88366848	123.394
Pign	99	0	1.650079	361	6.016667	3.04024	81.11415	Stalled	chr1:107417716-107562253	142.538
Phkb	99	0	1.650079	588	9.8	3.09065	76.70774	Stalled	chr8:88362900-88584541	219.642
Ppm1h	99	0	1.650079	437	7.283333	6.624505	4.919298	Unclassified	chr10:122113817-122382849	267.033
Nfia	99	0	1.650079	891	14.85	0.494871	0	Unclassified	chr4:97246633-97785567	536.935
Pole3	98	0	1.633412	6	0.1	55.9206	6.711183	Unclassified	chr4:62184834-62188048	1.215
Cd14	98	0	1.633412	2	0.033333	4.29732	1.365006	Unclassified	chr18:36884720-36888308	1.589
Ccr10	98	0	1.633412	18	0.3	1.43374	0.744074	Unclassified	chr11:101034311-101038757	2.447
Mrpl32	98	0	1.633412	11	0.183333	16.4827	44.61658	Stalled	chr13:14702567-14707304	2.738
Atf5	98	0	1.633412	42	0.7	55.8393	7.254662	Stalled	chr7:52067625-52073028	3.404
Trhr2	98	0	1.633412	23	0.383333	0.210417	0.21574	Unclassified	chr8:124880866-124886646	3.781
H2-K1	98	0	1.633412	370	6.166667	827.597	4.290349	Stalled	chr17:34132956-34139278	4.323
Creb3	98	0	1.633412	56	0.933333	28.3106	11.7097	Stalled	chr4:43573505-43579932	4.428
Tmub2	98	0	1.633412	194	3.233333	14.5792	1.403793	Elongating	chr11:102144274-102150738	4.465
Rogdi	98	0	1.633412	36	0.6	9.37976	16.71581	Stalled	chr16:5008821-5015664	4.826
Rps7	98	0	1.633412	500	8.333333	172.808	3.390004	Stalled	chr12:29315711-29322818	5.108
Chmp6	98	0	1.633412	170	2.833333	17.4534	4.642357	Stalled	chr11:119773123-119780866	5.744
Foxr1	98	0	1.633412	22	0.366667	0.207708	1.019684	Unclassified	chr9:44242316-44250951	6.636
Gpn2	98	0	1.633412	223	3.716667	19.9208	9.267261	Stalled	chr4:133138287-133147650	7.364
Arfrp1	98	0	1.633412	278	4.633333	8.64097	7.170879	Stalled	chr2:181092394-181102109	7.716
Gins2	98	0	1.633412	235	3.916667	34.8213	3.098329	Stalled	chr8:123105165-123114975	7.811
Cby1	98	0	1.633412	38	0.633333	9.43503	10.63662	Stalled	chr15:79487656-79498090	8.435
1110004E09Rik	98	0	1.633412	94	1.566667	12.3621	12.8432	Stalled	chr16:90926055-90937094	9.04
Acp2	98	0	1.633412	103	1.716667	2.75771	14.92092	Stalled	chr2:91041086-91052300	9.215
Srf	98	0	1.633412	414	6.9	26.1146	4.770378	Stalled	chr17:46683787-46695111	9.325
Ncdn	98	0	1.633412	338	5.633333	14.2961	10.24149	Stalled	chr4:126420993-126432673	9.681
B4galt7	98	0	1.633412	116	1.933333	6.87258	9.068525	Stalled	chr13:55699471-55711315	9.845
33gnt3	98	0	1.633412	91	1.516667	2.36408	1.179811	Stalled	chr8:74215617-74227699	10.083
Acin1	98	0	1.633412	769	12.81667	113.438	2.660106	Elongating	chr14:55260997-55274522	11.526
Zfp128	98	0	1.633412	34	0.566667	1.80262	18.39165	Stalled	chr7:13464526-13478770	12.245
Psm2	98	0	1.633412	156	2.6	56.4576	22.80687	Stalled	chr13:14703508-14717940	12.433
Zfp260	98	0	1.633412	73	1.216667	1.88779	18.70097	Stalled	chr7:30878094-30892633	12.54
Ldb1	98	0	1.633412	547	9.116667	63.7841	4.573192	Stalled	chr19:46107090-46121701	12.612
Ticam2	98	0	1.633412	245	4.083333	16.0686	14.81487	Stalled	chr18:46717884-46736186	16.303
Pgd	98	0	1.633412	453	7.55	66.7077	9.426537	Stalled	chr4:148524093-148542816	16.724
AI597479	98	0	1.633412	56	0.933333	3.55834	69.45848	Stalled	chr1:43153554-43172791	17.238
Casp2	98	0	1.633412	252	4.2	9.62818	9.196376	Stalled	chr6:42213037-42232495	17.459
Churc1	98	0	1.633412	120	2	18.9498	24.67824	Stalled	chr12:77864559-77884165	17.607
P4htm	98	0	1.633412	231	3.85	5.72053	6.216484	Stalled	chr9:108481156-108501931	18.776
Cdh15	98	0	1.633412	44	0.733333	0.360267	1.162435	Unclassified	chr8:125370273-125391297	19.025
Sft2d2	98	0	1.633412	550	9.166667	17.3308	7.950918	Stalled	chr1:167104473-167126564	20.092
Ufsp2	98	0	1.633412	92	1.533333	12.5543	29.49098	Stalled	chr8:47058892-47082213	21.322
1700029J07Rik	98	0	1.633412	23	0.383333	2.28236	73.79692	Stalled	chr8:47038959-47062606	21.648
Wfdc1	98	0	1.633412	45	0.75	0.032891	0.62924	Unclassified	chr8:122188264-122211920	21.657
Csrp1	98	0	1.633412	309	5.15	35.497	19.10305	Stalled	chr1:137623773-137648806	23.034
Pfkfb2	98	0	1.633412	95	1.583333	1.53511	40.69343	Stalled	chr1:132588832-132614398	23.567
Pola2	98	0	1.633412	609	10.15	19.9355	9.006222	Stalled	chr19:5940542-5966206	23.665
Celsr2	98	0	1.633412	87	1.45	0.515245	1.282337	Unclassified	chr3:108193765-108220412	24.648
Utp18	98	0	1.633412	299	4.983333	12.8839	29.96695	Stalled	chr11:93720556-93749080	26.525
Ywhaq	98	0	1.633412	421	7.016667	13.4823	25.3435	Stalled	chr12:21396189-21425297	27.109
Txndc12	98	0	1.633412	400	6.666667	13.7994	5.766771	Stalled	chr4:108505282-108534724	27.443
Tmem209	98	0	1.633412	417	6.95	4.36846	23.61314	Stalled	chr6:30431232-30461706	28.475
Rbm5	98	0	1.633412	816	13.6	29.5688	12.66902	Stalled	chr9:107642825-107675333	30.509
Trpc2	98	0	1.633412	278	4.633333	2.50733	13.03253	Stalled	chr7:109212226-109244930	30.705
Pitrm1	98	0	1.633412	372	6.2	9.88453	20.30406	Stalled	chr13:6545402-6579395	31.994
Samd4b	98	0	1.633412	379	6.316667	9.27262	4.214882	Stalled	chr7:29184542-29223210	36.669

Pla1a	98	0	1.633412	234	3.9	0.571165	0.933873	Stalled	chr16:38396202-38435225	37.024
Hs3st3b1	98	0	1.633412	70	1.166667	0.923446	14.41845	Stalled	chr11:63698194-63737786	37.593
Hnrrnpm	98	0	1.633412	932	15.53333	118.838	15.12962	Stalled	chr17:33783177-33824403	39.227
Eiv5l	98	0	1.633412	151	2.516667	3.07889	4.43961	Stalled	chr8:4164566-4208046	41.481
4933429F08Rik	98	0	1.633412	46	0.766667	0.190224	3.330233	Unclassified	chr18:61653447-61698190	42.744
Uhrf1bp1	98	0	1.633412	337	5.616667	2.4617	10.19849	Stalled	chr17:27991451-28036985	43.535
Mtap	98	0	1.633412	1041	17.35	11.6873	12.53605	Stalled	chr4:88781273-88826994	43.722
Iqcb1	98	0	1.633412	254	4.233333	3.91531	22.14446	Stalled	chr16:36826485-36872799	44.315
Lcp2	98	0	1.633412	1177	19.61667	11.5241	3.682198	Stalled	chr11:33945200-33992280	45.081
Cdc40	98	0	1.633412	295	4.916667	12.0557	14.16389	Stalled	chr10:40552698-40604949	50.252
Tgfbra1	98	0	1.633412	264	4.4	5.61	49.33702	Stalled	chr1:43104113-43157467	51.355
Wasf1	98	0	1.633412	42	0.7	0.22617	35.44812	Stalled	chr10:40601339-40658375	55.037
Eif5b	98	0	1.633412	819	13.65	14.5891	14.925	Stalled	chr1:38052854-38112424	57.571
Eif2ak3	98	0	1.633412	811	13.51667	9.31974	19.06568	Stalled	chr6:70792520-70855234	60.715
Lmin	98	0	1.633412	113	1.883333	0.829741	136.9535	Stalled	chr16:33060606-33125745	63.14
D17Wsu92e	98	0	1.633412	1136	18.93333	32.0966	15.82502	Stalled	chr17:27888179-27959487	69.309
Xrcc5	98	0	1.633412	433	7.216667	4.47672	23.31851	Stalled	chr1:72351994-72441527	87.534
AU040320	98	0	1.633412	743	12.38333	8.88165	55.41424	Stalled	chr4:126428798-126546938	116.141
Emi6	98	0	1.633412	371	6.183333	0.352088	6.045747	Unclassified	chr11:29643050-29928033	282.984
Sdhaf1	97	0	1.616744	0	0	29.8233	213	Unclassified	chr7:31106427-31109394	0.968
Atp5k	97	0	1.616744	0	0	115.962	212	Unclassified	chr5:108862271-108865397	1.127
Mab21l2	97	0	1.616744	14	0.233333	6.95818	0.759552	Unclassified	chr3:86349502-86354205	2.704
Cks1b	97	0	1.616744	36	0.6	54.8729	12.71103	Stalled	chr3:89219393-89224213	2.821
Zrsr1	97	0	1.616744	36	0.6	13.1138	2.532431	Stalled	chr11:22870028-22874908	2.881
Fbxo48	97	0	1.616744	23	0.383333	13.0193	42.96657	Stalled	chr11:16849412-16854775	3.364
1700034H14Rik	97	0	1.616744	19	0.316667	14.0603	33.00036	Stalled	chr18:85116685-85122916	4.232
Cox7a2	97	0	1.616744	42	0.7	29.7859	23.21441	Stalled	chr9:79603047-79609660	4.614
2010317E24Rik	97	0	1.616744	101	1.683333	10.0303	13.49508	Stalled	chr2:25225840-25233733	5.894
Gpc2	97	0	1.616744	20	0.333333	1.29526	5.011907	Stalled	chr5:138714887-138723165	6.279
1500011H22Rik	97	0	1.616744	85	1.416667	7.59325	6.913023	Stalled	chr5:122814592-122823972	7.381
Mobkl2c	97	0	1.616744	100	1.666667	2.42781	8.146555	Stalled	chr4:115498696-115508788	8.093
Bola3	97	0	1.616744	268	4.466667	20.7585	5.791091	Stalled	chr6:83297477-83308386	8.91
1200011M11Rik	97	0	1.616744	76	1.266667	9.16549	13.97863	Stalled	chr11:86891233-86902279	9.047
Ankrd2	97	0	1.616744	14	0.233333	0.09321	2.194618	Unclassified	chr19:42108527-42119600	9.074
Yeats4	97	0	1.616744	315	5.25	38.8687	11.43658	Stalled	chr10:116652197-116663563	9.367
Gpn3	97	0	1.616744	115	1.916667	18.2065	16.77229	Stalled	chr5:122820516-122832778	10.263
Ddrgk1	97	0	1.616744	170	2.833333	39.6784	19.49402	Stalled	chr2:130479818-130492381	10.564
Tada3	97	0	1.616744	86	1.433333	11.219	24.07104	Stalled	chr6:113316654-113329514	10.861
Maff	97	0	1.616744	355	5.916667	3.09649	1.935413	Elongating	chr15:79176107-79189506	11.4
Cicnkb	97	0	1.616744	41	0.683333	0.076679	0.823737	Unclassified	chr4:140960271-140973903	11.633
Zfp174	97	0	1.616744	30	0.5	2.74945	13.1078	Stalled	chr16:3845222-3858880	11.659
U2af1	97	0	1.616744	980	16.33333	35.2166	3.868039	Stalled	chr17:31784026-31797699	11.674
Dhx16	97	0	1.616744	313	5.216667	26.0829	6.880236	Stalled	chr17:36014722-36029611	12.89
Smagp	97	0	1.616744	208	3.466667	5.75395	1.501485	Elongating	chr15:100451770-100469296	15.527
Col9a2	97	0	1.616744	47	0.783333	0.135221	0.956008	Unclassified	chr4:120710170-120727930	15.761
Cyb5d2	97	0	1.616744	92	1.533333	4.42269	42.73366	Stalled	chr11:72590733-72611341	18.609
Coq10b	97	0	1.616744	138	2.3	2.52467	12.66819	Stalled	chr1:55107613-55129546	19.934
Mns1	97	0	1.616744	171	2.85	9.7666	19.33747	Stalled	chr9:72284341-72306381	20.041
Seh1l	97	0	1.616744	350	5.833333	12.7481	29.60949	Stalled	chr18:67932529-67955141	20.613
Dpp3	97	0	1.616744	442	7.366667	36.4599	11.2443	Stalled	chr19:4907228-4930287	21.06
4930402F06Rik	97	0	1.616744	30	0.5	0.130779	2.443742	Unclassified	chr2:35231081-35254695	21.615
Ndufa12	97	0	1.616744	317	5.283333	42.3547	17.28864	Stalled	chr10:93659753-93683693	21.941
4933430I17Rik	97	0	1.616744	26	0.433333	0.129385	70.83643	Stalled	chr4:62184402-62209027	22.626
Ammecr1l	97	0	1.616744	232	3.866667	7.65331	14.80543	Stalled	chr18:31917533-31942383	22.851
Trove2	97	0	1.616744	33	0.55	0.333595	120.9725	Stalled	chr1:145597920-145626181	26.262
Tecpr1	97	0	1.616744	224	3.733333	5.11389	19.18508	Stalled	chr5:144956217-144986447	28.231
Wdr36	97	41	1.616744	261	4.35	14.0086	21.84023	Stalled	chr18:32994878-33026074	29.197
Bclaf1	97	0	1.616744	606	10.1	19.7007	34.42745	Stalled	chr10:20030274-20062307	30.034
Pdcd4	97	0	1.616744	464	7.733333	7.94558	0.292686	Stalled	chr19:53964720-54004351	37.632
Acad10	97	0	1.616744	93	1.55	2.5774	51.80511	Stalled	chr5:122071037-122112519	39.483
Sptlc1	97	0	1.616744	664	11.06667	8.44315	12.20353	Stalled	chr13:53428118-53474730	44.613
Ap3s2	97	0	1.616744	359	5.983333	5.64315	18.2403	Stalled	chr7:87020210-87067526	45.317
Notch3	97	0	1.616744	127	2.116667	0.241982	1.045842	Unclassified	chr17:32257837-32305797	45.961
Dcp1b	97	0	1.616744	373	6.216667	3.83901	22.87868	Stalled	chr6:119123270-119171632	46.363
Fbxo15	97	0	1.616744	396	6.6	0.113133	0	Stalled	chr18:85102416-85150784	46.369
Bahcc1	97	0	1.616744	134	2.233333	0.098461	1.213442	Unclassified	chr11:120092260-120153611	59.352
Erich1	97	0	1.616744	195	3.25	3.48975	10.34355	Stalled	chr8:14027564-14092327	62.764
Stk4	97	51	1.616744	1483	24.71667	20.7357	13.31079	Stalled	chr2:163897913-163981257	81.345
Mgat4a	97	0	1.616744	1134	18.9	3.24077	0.935875	Stalled	chr1:37496184-37595104	96.921
Mipep	97	0	1.616744	460	7.666667	6.08781	22.66839	Stalled	chr14:61401402-61522450	119.049
Zzef1	97	0	1.616744	797	13.28333	5.23036	29.70986	Stalled	chr11:72607727-72740622	130.896
Ctnna3	97	0	1.616744	739	12.31667	0.072258	145.5851	Stalled	chr10:62890845-64466415	1573.571
AI462493	96	0	1.600077	0	0	43.3081	182	Unclassified	chr19:8954505-8957423	0.919
Fau	96	0	1.600077	71	1.183333	769.403	4.744496	Unclassified	chr19:6055892-6059518	1.627
Sephs2	96	0	1.600077	55	0.916667	30.5459	5.629049	Stalled	chr7:134415394-134419573	2.18
Egr1	96	111	1.600077	279	4.65	7.43308	3.202572	Stalled	chr18:35018860-35024610	3.751
Hsbp1	96	0	1.600077	33	0.55	20.0814	11.84049	Stalled	chr8:121866437-121872829	4.393
Chpf	96	0	1.600077	45	0.75	6.61488	5.026911	Stalled	chr1:75471145-75478046	4.902
Sap30	96	0	1.600077	12	0.2	21.6633	26.25743	Stalled	chr8:59961498-59968657	5.16
Mrp120	96	0	1.600077	67	1.116667	52.3122	17.57068	Stalled	chr4:155175726-155182938	5.213
Acadvl	96	0	1.600077	80	1.333333	15.0882	3.004382	Stalled	chr11:69823693-69830909	5.217
Psmc3	96	0	1.600077	156	2.6	82.5252	5.76231	Stalled	chr2:90892172-90899594	5.423
Plscr3	96	0	1.600077	44	0.733333	6.34786	18.06806	Stalled	chr11:69658118-69665560	5.443
Temem134	96	0	1.600077	139	2.316667	36.4616	4.965507	Stalled	chr19:4123959-4132307	6.349
Mrp130	96	0	1.600077	90	1.5	25.783	16.32748	Stalled	chr1:37945397-37955178	7.782
Med4	96	0	1.600077	149	2.483333	16.5963	8.480275	Stalled	chr14:73907855-73918352	8.498

Rgp1	96	0	1.600077	193	3.216667	0	10.62171	Stalled	chr4:43589606-43600359	8.754
Mitd1	96	0	1.600077	93	1.55	12.2923	23.98914	Stalled	chr1:37935734-37949256	11.523
Gba2	96	0	1.600077	241	4.016667	8.18513	11.98057	Stalled	chr4:43579801-43593736	11.936
2900064A13Rik	96	0	1.600077	88	1.466667	27.9354	40.64058	Stalled	chr2:112293181-112307593	12.413
BC053749	96	0	1.600077	62	1.033333	3.31689	33.73132	Stalled	chr7:31324152-31339291	13.14
Polr3c	96	0	1.600077	278	4.633333	26.1351	14.81718	Stalled	chr3:96515817-96533362	15.546
Zfp655	96	0	1.600077	165	2.75	2.99777	28.60209	Stalled	chr5:145990583-146008175	15.593
Pstk	96	0	1.600077	90	1.5	7.28605	20.49096	Stalled	chr7:138512659-138531352	16.694
Rab11b	96	0	1.600077	428	7.133333	6.48477	8.100709	Stalled	chr17:33879428-33899431	18.004
Gbp6	96	0	1.600077	149	2.483333	9.17128	10.95224	Stalled	chr3:142191301-142213047	19.747
rp9	96	0	1.600077	193	3.216667	46.6563	9.699647	Stalled	chr9:22252757-22274800	20.044
Zfp518	96	0	1.600077	255	4.25	1.21293	33.21629	Stalled	chr19:40967194-40992437	23.244
Adpgk	96	0	1.600077	455	7.583333	9.60907	25.27748	Stalled	chr9:59137378-59164007	24.63
Ndufa9	96	0	1.600077	397	6.616667	29.4593	9.624447	Stalled	chr6:126771880-126801162	27.283
Tmem168	96	0	1.600077	251	4.183333	8.22105	24.05806	Stalled	chr6:13530688-13560063	27.376
Dstn	96	0	1.600077	174	2.9	14.2013	17.99654	Stalled	chr2:143739066-143769059	27.994
Dhcr24	96	0	1.600077	575	9.583333	50.275	16.32507	Stalled	chr4:106231642-106261718	28.077
Gabpa	96	0	1.600077	320	5.333333	9.02037	30.46761	Stalled	chr16:84833368-84864023	28.656
Ap2a1	96	0	1.600077	537	8.95	23.002	6.568011	Stalled	chr7:52155742-52186860	29.119
Slc25a46	96	0	1.600077	217	3.616667	5.33895	34.84767	Stalled	chr18:31739821-31771556	29.736
Ercc3	96	0	1.600077	344	5.733333	14.035	15.38226	Stalled	chr18:32397984-32429801	29.818
Stag3	96	0	1.600077	24	0.4	0.430444	12.38006	Stalled	chr5:138719736-138753621	31.886
Zfp398	96	0	1.600077	246	4.1	3.13193	21.62703	Stalled	chr6:47783659-47818256	32.598
Ccdc76	96	0	1.600077	521	8.683333	8.76227	0.874455	Stalled	chr3:116284253-116319505	33.253
Rrn3	96	0	1.600077	481	8.016667	13.0335	23.33612	Stalled	chr16:13778791-13814934	34.144
Snapc3	96	0	1.600077	419	6.983333	11.7419	16.62786	Stalled	chr4:83061647-83099244	35.598
Sass6	96	0	1.600077	397	6.616667	0	19.7571	Stalled	chr3:116295925-116333902	35.978
Samhd1	96	0	1.600077	731	12.18333	46.6672	14.43528	Stalled	chr2:156923264-156962958	37.695
Kif17	96	0	1.600077	102	1.7	1.62319	6.271892	Stalled	chr4:137816165-137857407	39.243
Xpnp1	96	0	1.600077	800	13.33333	24.5694	10.02417	Stalled	chr19:53065672-53115032	47.361
Pcbd2	96	0	1.600077	151	2.516667	29.1491	55.39743	Stalled	chr13:55826728-55878191	49.464
Tmx4	96	0	1.600077	79	1.316667	1.60713	64.76324	Stalled	chr2:134420241-134471857	49.617
Agap3	96	0	1.600077	592	9.866667	12.2706	10.52369	Stalled	chr5:23955994-24007865	49.872
Trim30	96	0	1.600077	695	11.58333	16.753	5.662741	Stalled	chr7:111557539-111615707	56.169
Wdr20a	96	0	1.600077	543	9.05	8.34433	15.63316	Stalled	chr12:111974158-112033238	57.081
Lrig2	96	0	1.600077	215	3.583333	1.9133	32.0069	Stalled	chr3:104257905-104317779	57.875
Sae1	96	0	1.600077	1304	21.73333	60.7677	8.979225	Stalled	chr7:16912402-16975134	60.733
Rnf115	96	0	1.600077	536	8.933333	11.3887	32.91642	Stalled	chr3:96529533-96595078	63.546
Zfyve26	96	0	1.600077	1063	17.71667	6.22252	11.96205	Stalled	chr12:80333333-80399269	63.937
Tnfrsf21	96	0	1.600077	163	2.716667	1.83768	10.07503	Stalled	chr17:43151503-43226137	72.635
Dpp4	96	0	1.600077	583	9.716667	7.12043	9.286959	Stalled	chr2:62168131-62252288	82.158
Cnot4	96	0	1.600077	525	8.75	5.18425	33.8145	Stalled	chr6:34992708-35085737	91.03
Abcg2	96	57	1.600077	110	1.833333	0.384504	2.314204	Unclassified	chr6:58544665-58642445	95.781
Plekhh2	96	0	1.600077	110	1.833333	0.027587	2.491437	Unclassified	chr17:84909234-85021482	110.249
Rhbdd1	96	0	1.600077	660	11	2.37732	51.90791	Stalled	chr1:82311153-82441941	128.789
Spnb1	96	0	1.600077	263	4.383333	0.398241	1.975116	Unclassified	chr12:77681474-77813534	130.061
Tshz2	96	0	1.600077	340	5.666667	0.010027	0.854949	Unclassified	chr2:169457145-169714004	254.86
2010111I01Rik	96	0	1.600077	1299	21.65	1.80734	0.537708	Stalled	chr13:63114293-63400964	284.672
Grid1	96	0	1.600077	529	8.816667	0.033649	1.768795	Unclassified	chr14:35631321-36394301	760.981
Mos	95	0	1.583409	0	0	0.743488	2	Unclassified	chr4:3797804-3801252	1.449
S100a6	95	0	1.583409	11	0.183333	12.7619	1.812185	Unclassified	chr3:90414815-90418336	1.522
mmu-mir-210	95	0	1.583409	44	0.733333	ND	ND	Stalled	chr7:148407055-148409329	2.275
Rps25	95	0	1.583409	142	2.366667	102.564	4.23223	Stalled	chr9:44213796-44218489	2.694
Jmj3d8	95	0	1.583409	107	1.783333	12.7834	2.582292	Stalled	chr17:25963987-25968787	2.801
Trappc4	95	0	1.583409	46	0.766667	31.2236	23.3961	Stalled	chr9:44211841-44217631	3.791
Tor2a	95	0	1.583409	52	0.866667	24.6668	9.444841	Stalled	chr2:32610790-32617764	4.975
BC011248	95	0	1.583409	132	2.2	13.3282	12.50279	Stalled	chr17:46804404-46813204	6.801
Tagln2	95	0	1.583409	458	7.633333	102.301	4.596952	Stalled	chr1:174428376-174437506	7.131
Ndufaf1	95	0	1.583409	74	1.233333	10.5365	14.30222	Stalled	chr2:119481186-119490534	7.349
Zfp324	95	0	1.583409	101	1.683333	5.14756	15.08559	Stalled	chr7:13549212-13559171	7.96
Oip5	95	0	1.583409	74	1.233333	8.59354	29.28301	Stalled	chr2:119435267-119446241	8.975
Hyls1	95	0	1.583409	193	3.216667	8.57954	12.91304	Stalled	chr9:35368405-35379654	9.25
Zscan22	95	0	1.583409	167	2.783333	4.53318	6.357872	Stalled	chr7:13481163-13493588	10.426
Exosc2	95	0	1.583409	395	6.583333	24.3019	4.708255	Stalled	chr2:31524256-31536827	10.572
Bccip	95	0	1.583409	128	2.133333	50.7247	25.55212	Stalled	chr7:140899015-140912828	11.814
Adam33	95	0	1.583409	61	1.016667	0.548094	0.493116	Unclassified	chr2:130876552-130891550	12.999
Adcy4	95	0	1.583409	35	0.583333	0.060401	2.846778	Unclassified	chr14:56387928-56404856	14.929
Tmem50a	95	0	1.583409	210	3.5	40.9821	11.01741	Stalled	chr4:134453763-134472831	17.069
Lztf11	95	0	1.583409	43	0.716667	0.840345	13.16106	Stalled	chr9:123606710-123628675	19.966
A530082C11Rik	95	0	1.583409	348	5.8	2.30862	28.07836	Stalled	chr4:154973524-154997450	21.927
Uros	95	0	1.583409	90	1.5	6.02856	65.52804	Stalled	chr7:140878012-140902978	22.967
1200011I18Rik	95	0	1.583409	165	2.75	4.92266	36.26826	Stalled	chr14:76486038-76512622	24.585
Tmco1	95	0	1.583409	202	3.366667	4.83174	54.03177	Stalled	chr1:169236800-169264109	25.31
AA408296	95	0	1.583409	449	7.483333	4.54168	9.911681	Stalled	chr1:194930596-194958445	25.85
A430033K04Rik	95	0	1.583409	129	2.15	2.85956	14.75738	Stalled	chr5:139062086-139090054	25.969
Nufip1	95	0	1.583409	389	6.483333	6.68749	17.8957	Stalled	chr14:76508697-76537186	26.49
Ptcd3	95	0	1.583409	411	6.85	9.78803	17.39775	Stalled	chr6:71830631-71860756	28.126
Ctss	95	0	1.583409	484	8.066667	82.0211	6.420334	Stalled	chr3:95328707-95360325	29.619
Nusap1	95	0	1.583409	433	7.216667	15.3404	17.16648	Stalled	chr2:119442033-119475896	31.864
Dnajc18	95	0	1.583409	152	2.533333	2.67654	27.47276	Stalled	chr18:35830758-35864798	32.041
2010107G12Rik	95	0	1.583409	72	1.2	0.154414	0.305663	Unclassified	chr6:34895304-34929999	32.696
1810074P20Rik	95	0	1.583409	165	2.75	4.87413	39.87905	Stalled	chr4:25175733-25210968	33.236
Hpse	95	0	1.583409	332	5.533333	11.2921	13.62253	Stalled	chr5:101108504-1011150702	40.199
Gdgd1	95	0	1.583409	61	1.016667	1.93469	26.27052	Stalled	chr11:86847295-86889639	40.345
Cnga3	95	0	1.583409	66	1.1	0.037291	0.790378	Unclassified	chr1:37274105-37320229	44.125
Rmnd5a	95	0	1.583409	247	4.116667	6.5225	27.38478	Stalled	chr6:71338627-71392631	52.005

Gm608	95	0	1.583409	445	7.416667	1.92905	10.86823	Stalled	chr16:44171509-44227578	54.07
Mtdh	95	37	1.583409	1497	24.95	52.5891	23.34399	Stalled	chr15:34010473-34072140	59.668
Polr1a	95	0	1.583409	997	16.61667	12.1732	18.91419	Stalled	chr6:71857046-71929352	70.307
Mdfic	95	0	1.583409	549	9.15	4.96537	20.97447	Stalled	chr6:15668660-15752169	81.51
Manba	95	0	1.583409	307	5.116667	5.24537	19.69467	Stalled	chr3:135146574-135234367	85.794
Xrn1	95	0	1.583409	598	9.966667	2.90457	20.56585	Stalled	chr9:95853178-95953448	98.271
Prkc2	95	0	1.583409	192	3.2	0.626	4.460039	Unclassified	chr4:154634228-154737500	101.273
Tnrc6c	95	0	1.583409	1495	24.91667	6.83447	19.90132	Stalled	chr11:117513602-117624753	109.152
Mrip	95	0	1.583409	540	9	4.76144	7.677266	Stalled	chr11:59473996-59594362	118.367
Mrps28	95	0	1.583409	691	11.51667	34.9816	50.41401	Stalled	chr3:8802145-8925857	121.713
Hivep1	95	0	1.583409	2892	48.2	6.0397	12.3538	Stalled	chr13:42145389-42280395	133.007
4930534B04Rik	95	0	1.583409	1142	19.03333	3.48699	25.46096	Stalled	chr12:92236931-92624849	385.919
Bcas3	95	0	1.583409	963	16.05	1.82187	39.13562	Stalled	chr11:85164665-85639559	472.895
Scand1	94	0	1.566742	0	0	65.6713	377	Unclassified	chr2:156137581-156140440	0.86
Cldn23	94	0	1.566742	0	0	2.39882	7	Unclassified	chr8:36887765-36891613	1.849
Ndufa2	94	0	1.566742	19	0.316667	119.27	22.87753	Stalled	chr18:36902019-36906202	2.184
Pim3	94	0	1.566742	172	2.866667	13.4069	7.259331	Stalled	chr15:88690623-88696156	3.534
Ppm1m	94	0	1.566742	129	2.15	47.42	4.912505	Stalled	chr9:106097283-106103564	4.282
Picxd1	94	0	1.566742	399	6.65	3.0227	0.061673	Stalled	chr5:110526987-110534969	5.983
Usf1	94	0	1.566742	98	1.633333	23.0691	15.73095	Stalled	chr1:173339811-173348873	7.063
4833442J19Rik	94	0	1.566742	60	1	3.22674	7.752825	Stalled	chr6:149088118-149099692	9.575
Gcsh	94	0	1.566742	55	0.916667	12.8854	15.21665	Stalled	chr8:119505727-119519349	11.623
Mdh2	94	0	1.566742	333	5.55	121.351	12.40297	Stalled	chr5:136252518-136266256	11.739
Farsa	94	0	1.566742	394	6.566667	35.1764	7.426823	Stalled	chr8:87378884-87393156	12.273
Zfp84	94	0	1.566742	201	3.35	2.83922	8.642381	Stalled	chr7:30551570-30566438	12.869
Ik	94	0	1.566742	144	2.4	46.9848	30.11905	Stalled	chr18:36902309-36917293	12.985
Rai12	94	0	1.566742	261	4.35	36.2704	12.27546	Stalled	chr11:69781726-69796737	13.012
Zfp472	94	0	1.566742	125	2.083333	5.07844	21.81104	Stalled	chr17:33100775-33116156	13.382
Sip1	94	0	1.566742	74	1.233333	12.4438	38.33989	Stalled	chr12:60112379-60128975	14.597
Rae1	94	0	1.566742	538	8.966667	20.2098	4.807579	Stalled	chr2:172823637-172841233	15.597
Adam11	94	0	1.566742	50	0.833333	0.18507	0.788426	Unclassified	chr11:102620752-102641576	18.825
E130309D14Rik	94	0	1.566742	28	0.466667	0.467473	2.137775	Unclassified	chr11:74431106-74455018	21.913
1700012A16Rik	94	0	1.566742	516	8.6	1.30966	8.361726	Stalled	chr1:155270338-155299704	27.367
Abce1	94	0	1.566742	435	7.25	19.9714	20.6684	Stalled	chr8:82207340-82237639	28.3
Vrk3	94	0	1.566742	230	3.833333	11.8818	9.948559	Stalled	chr7:52001998-52032884	28.887
Nde1	94	0	1.566742	485	8.083333	30.3624	17.96028	Stalled	chr16:14161367-14193016	29.65
Tln1	94	0	1.566742	676	11.26667	40.0382	9.029198	Stalled	chr4:43544384-43577455	31.072
Top2a	94	0	1.566742	897	14.95	67.3156	9.458956	Stalled	chr11:98854260-98887503	31.244
Sfxn1	94	0	1.566742	947	15.78333	16.1917	6.756743	Stalled	chr13:54165213-54203712	36.5
Dbt	94	0	1.566742	322	5.366667	3.74091	12.53968	Stalled	chr3:116213996-116252899	36.904
Mtmr6	94	0	1.566742	154	2.566667	5.90118	19.57901	Stalled	chr14:60882064-60921207	37.144
Agpat5	94	0	1.566742	333	5.55	6.8605	44.34616	Stalled	chr8:18844278-18884413	38.136
Asb7	94	0	1.566742	224	3.733333	3.0434	22.32496	Stalled	chr7:73789456-73836447	44.992
Stambp1	94	0	1.566742	497	8.283333	7.36584	21.62445	Stalled	chr19:34264759-34314818	48.06
Dnajb6	94	0	1.566742	871	14.51667	12.7243	19.60482	Stalled	chr5:30060437-30113018	50.582
BC061194	94	0	1.566742	36	0.6	0.228992	1.738097	Unclassified	chr2:18618648-18671232	50.585
Hspbp1	94	0	1.566742	307	5.116667	2.06648	17.71547	Stalled	chr16:35768471-35828548	58.078
Tcerg1	94	0	1.566742	933	15.55	19.6295	14.23186	Stalled	chr18:42669140-42735439	64.3
Anapc10	94	0	1.566742	142	2.366667	0.679037	104.9525	Stalled	chr8:82233718-82301220	65.503
Acpl2	94	0	1.566742	216	3.6	0.81323	31.4892	Stalled	chr9:96723761-96791841	66.081
Cicn3	94	0	1.566742	640	10.66667	12.1831	44.04805	Stalled	chr8:63389185-63464108	72.924
38969	94	0	1.566742	162	2.7	3.76517	170.7781	Stalled	chr10:58604374-58686595	80.222
Sulf2	94	0	1.566742	395	6.583333	0.233255	0.855794	Unclassified	chr2:165898588-165983156	82.569
Glccl1	94	195	1.566742	373	6.216667	4.63033	94.52467	Stalled	chr6:8457595-8547548	87.954
Prep	94	0	1.566742	1096	18.26667	17.0732	14.91653	Stalled	chr10:44785019-44878801	91.783
Apc	94	0	1.566742	749	12.48333	2.76854	35.51852	Stalled	chr18:34378637-34481844	101.208
Mcf2l	94	0	1.566742	186	3.1	0.074426	1.073318	Unclassified	chr8:12913892-13020508	104.617
Fam134b	94	0	1.566742	812	13.53333	6.23297	9.898399	Stalled	chr15:25771018-25903442	130.425
Xpr1	94	0	1.566742	429	7.15	2.44362	19.76718	Stalled	chr1:157122786-157266574	141.789
Ahrgap10	94	0	1.566742	964	16.06667	1.85165	16.24545	Stalled	chr8:79774264-80043806	267.543
Hist1h4d	93	20	1.550074	0	0	11.6768	420	Unclassified	chr13:23671470-23673782	0.313
Mrp136	93	0	1.550074	2	0.033333	38.6072	17.09212	Unclassified	chr13:73466456-73469626	1.171
Apoa1b	93	0	1.550074	130	2.166667	35.1438	0.795715	Elongating	chr3:87860444-87864417	1.974
Polr3d	93	0	1.550074	127	2.116667	11.2521	9.369943	Stalled	chr14:70838556-70845278	4.723
Gtppb3	93	0	1.550074	48	0.8	12.6351	5.918431	Stalled	chr8:74010001-74017299	5.299
Gar1	93	0	1.550074	147	2.45	64.7764	8.704883	Stalled	chr3:129527837-129536074	6.238
Wnt10b	93	0	1.550074	542	9.033333	20.1721	0.877808	Elongating	chr15:98602183-98610581	6.399
Sstr3	93	0	1.550074	19	0.316667	0.088096	1.499763	Unclassified	chr15:78367444-78376775	7.332
Med29	93	0	1.550074	216	3.6	5.95103	8.373328	Stalled	chr7:29170265-29179709	7.445
Map1lc3b	93	0	1.550074	92	1.533333	10.6757	16.62256	Stalled	chr8:124112367-124121947	7.581
Prrt3	93	0	1.550074	227	3.783333	1.20606	0.086319	Stalled	chr6:113444088-113453812	7.725
2900010J23Rik	93	0	1.550074	150	2.5	108.705	14.55171	Stalled	chr2:32134335-32145588	9.254
Naca	93	0	1.550074	1020	17	209.927	4.20368	Stalled	chr10:127470401-127485693	13.293
Zfp759	93	0	1.550074	16	0.266667	0.80659	21.54998	Stalled	chr13:67227163-67242723	13.561
Sfrs13a	93	0	1.550074	338	5.633333	15.5802	17.85473	Stalled	chr4:135410006-135425814	13.809
Syce2	93	0	1.550074	110	1.833333	12.8341	9.224607	Stalled	chr8:87394009-87411345	15.337
Ubqln4	93	0	1.550074	177	2.95	13.6393	16.18281	Stalled	chr3:88355637-88373647	16.011
Mrps5	93	0	1.550074	160	2.666667	14.722	16.04403	Stalled	chr2:127411161-127429722	16.562
Hn1l	93	0	1.550074	257	4.283333	7.55747	18.8348	Stalled	chr17:25079414-25099568	18.155
Taf12	93	0	1.550074	114	1.9	13.3849	73.88197	Stalled	chr4:131828289-131849242	18.954
Rwdd4a	93	0	1.550074	256	4.266667	9.51492	20.30447	Stalled	chr8:48616998-48638191	19.194
Pex13	93	0	1.550074	74	1.233333	1.98378	45.11787	Stalled	chr11:23546478-23567935	19.458
Rsph6a	93	0	1.550074	54	0.9	0.081598	6.18826	Stalled	chr7:19638035-19659795	19.761
Actr6	93	0	1.550074	90	1.5	5.59016	20.85756	Stalled	chr10:89174717-89197040	20.324
Cd5	93	0	1.550074	77	1.283333	0.563695	8.602295	Stalled	chr19:10792632-10815464	20.833
Gtppb4	93	0	1.550074	444	7.4	23.1843	14.82962	Stalled	chr13:8971723-8997258	23.536

6330503K22Rik	93	0	1.550074	95	1.583333	3.55945	13.64103	Stalled	chr7:125854124-125880532	24.409
Mxra7	93	0	1.550074	46	0.766667	0.252612	1.69768	Unclassified	chr11:116664713-116691360	24.648
Ppil2	93	0	1.550074	414	6.9	17.0465	9.352046	Stalled	chr16:17086648-17113306	24.659
Dnajb4	93	0	1.550074	285	4.75	7.57633	57.33244	Stalled	chr3:151846918-151875263	26.346
Fubp1	93	0	1.550074	820	13.66667	17.0231	21.97107	Stalled	chr3:151871421-151899794	26.374
Idh1	93	0	1.550074	127	2.116667	6.96891	35.09482	Stalled	chr1:65205189-65235053	27.865
Osbp	93	45	1.550074	264	4.4	15.1556	15.5427	Stalled	chr19:12038333-12068604	28.272
Enoph1	93	0	1.550074	330	5.5	13.6641	26.15958	Stalled	chr5:100467012-100497783	28.772
Gtf2e1	93	0	1.550074	214	3.566667	6.40595	39.82982	Stalled	chr16:37509881-37541855	29.975
Golp31	93	0	1.550074	100	1.666667	7.1293	8.834087	Stalled	chr3:95390880-95423164	30.285
Rabl3	93	0	1.550074	176	2.933333	2.95988	49.17627	Stalled	chr16:37537979-37572471	32.493
Adss	93	0	1.550074	317	5.283333	16.0785	30.45105	Stalled	chr1:179693308-179728640	33.333
D030016E14Rik	93	0	1.550074	203	3.383333	5.78782	50.05119	Stalled	chr8:48575481-48620824	43.344
Piwil2	93	0	1.550074	175	2.916667	0.511224	0.964651	Unclassified	chr14:70772286-70830901	56.616
Taf1b	93	0	1.550074	490	8.166667	6.08725	17.40773	Stalled	chr12:25181445-25243436	59.992
Ift57	93	0	1.550074	134	2.233333	2.77491	25.43354	Stalled	chr16:49697406-49765239	65.834
Pus10	93	0	1.550074	585	9.75	8.35161	24.40057	Stalled	chr11:23563975-23632876	66.902
Rcor1	93	0	1.550074	812	13.53333	6.63796	13.9503	Stalled	chr12:112276008-112351597	73.59
Wars2	93	0	1.550074	255	4.25	1.71124	45.02373	Stalled	chr3:98943012-99024126	79.115
E2f3	93	0	1.550074	2638	43.96667	5.85044	11.8465	Stalled	chr13:29998443-30079932	79.49
Lrpprc	93	0	1.550074	1161	19.35	9.58773	16.83298	Stalled	chr17:85104586-85192126	85.541
1700040L02Rik	93	0	1.550074	360	6	2.42247	25.73052	Stalled	chr10:67893703-68006623	110.921
Ahi1	93	0	1.550074	452	7.533333	1.3764	39.22534	Stalled	chr10:20670390-20800235	127.846
Atbpd4	93	0	1.550074	340	5.666667	4.10571	85.81685	Stalled	chr2:114342153-114482664	138.512
Atp8b4	93	0	1.550074	226	3.766667	0.271208	3.858209	Unclassified	chr2:126146708-126319289	170.582
Pds2	93	0	1.550074	892	14.86667	11.378	80.84491	Stalled	chr10:42939291-43160054	218.764
Ldlrad3	93	0	1.550074	543	9.05	0.167446	15.41303	Stalled	chr2:101790357-102028534	236.178
Iggap2	93	0	1.550074	434	7.233333	0.502889	13.98593	Stalled	chr13:96397131-96663877	264.747
Lsm4d1	92	0	1.533407	0	0	66.9317	234	Unclassified	chr11:69207292-69210173	0.882
Banf1	92	0	1.533407	52	0.866667	128.706	10.27764	Stalled	chr19:5364639-5368645	2.007
Dusp23	92	0	1.533407	3	0.05	6.49333	29.83789	Stalled	chr1:174560899-174565105	2.207
AA467197	92	0	1.533407	7	0.116667	1.24158	4.529322	Stalled	chr2:122461622-122466812	3.191
1700020C11Rik	92	0	1.533407	10	0.166667	6.63717	10.94009	Stalled	chr11:3991483-3997434	3.952
Eif5a	92	0	1.533407	605	10.08333	402.702	3.212928	Stalled	chr11:69730213-69736888	4.676
Rabggtb	92	0	1.533407	405	6.75	30.6127	1.235374	Elongating	chr3:153570252-153577167	4.916
Gnb2	92	0	1.533407	226	3.766667	115.818	3.262318	Stalled	chr5:137969356-137976457	5.102
Fstl3	92	0	1.533407	43	0.716667	1.71901	0.73618	Unclassified	chr10:79238018-79245375	5.358
Tmem216	92	0	1.533407	54	0.9	3.41424	8.528771	Stalled	chr19:10624955-10632728	5.774
Ccdc59	92	0	1.533407	82	1.366667	21.7076	22.26403	Stalled	chr10:105276534-105284566	6.033
Trmt5	92	0	1.533407	53	0.883333	3.39371	20.1922	Stalled	chr12:74381396-74389698	6.303
Fem1a	92	57	1.533407	264	4.4	10.5577	4.33337	Stalled	chr17:56394215-56403031	6.817
Fbxl12	92	0	1.533407	243	4.05	7.28989	5.934381	Stalled	chr9:20442230-20451211	6.982
Ccdc97	92	0	1.533407	456	7.6	19.0291	4.031473	Stalled	chr7:26496135-26506072	7.938
Car3	92	0	1.533407	32	0.533333	0.62028	0.196727	Unclassified	chr3:14861537-14872373	8.837
Flot1	92	0	1.533407	386	6.433333	16.2032	2.800462	Stalled	chr17:35958301-35969732	9.432
Hinfp	92	0	1.533407	112	1.866667	5.70393	22.01653	Stalled	chr9:44103755-44115754	10
R3hcc1	92	0	1.533407	101	1.683333	18.6048	7.318833	Stalled	chr14:70097111-70109387	10.277
Psmg1	92	0	1.533407	80	1.333333	28.5039	41.88796	Stalled	chr16:96201541-96214510	10.97
Tmem170	92	0	1.533407	35	0.583333	2.59852	28.25488	Stalled	chr8:114388797-114402575	11.779
Cdc6	92	0	1.533407	573	9.55	10.7474	5.299479	Stalled	chr11:98767202-98785256	16.055
Ak2	92	0	1.533407	1102	18.36667	280.893	3.748562	Stalled	chr4:128668508-128688773	18.266
D10Wsu52e	92	0	1.533407	362	6.033333	68.3277	7.02136	Stalled	chr10:85401381-85422538	19.158
Ccdc157	92	0	1.533407	142	2.366667	1.32933	22.80295	Stalled	chr11:4041126-4062296	19.171
Cops7b	92	0	1.533407	183	3.05	9.30411	10.23338	Stalled	chr1:88481674-88503075	19.402
Ebp1	92	0	1.533407	93	1.55	5.22615	28.47336	Stalled	chr14:61958599-61981282	20.684
Itgax	92	0	1.533407	43	0.716667	0.06686	0.318445	Unclassified	chr7:135271081-135294171	21.091
St6galnac6	92	0	1.533407	481	8.016667	0	6.657597	Stalled	chr2:32453228-32476324	21.097
Ccdc28a	92	0	1.533407	37	0.616667	5.2635	36.84233	Stalled	chr10:17933490-17956787	21.298
Mapk6	92	62	1.533407	797	13.28333	15.8779	14.49828	Stalled	chr9:75234707-75259821	23.115
Naa50	92	0	1.533407	238	3.966667	12.5259	28.30912	Stalled	chr16:44137921-44163477	23.557
Ccdc99	92	0	1.533407	286	4.766667	11.3141	19.4815	Stalled	chr11:34622686-34649143	24.458
2310030N02Rik	92	0	1.533407	220	3.666667	8.91804	12.66485	Stalled	chr4:10978194-11005351	25.158
Ing3	92	0	1.533407	185	3.083333	3.09875	27.42676	Stalled	chr6:21897614-21926037	26.424
Nop58	92	0	1.533407	799	13.31667	44.8559	9.404206	Stalled	chr1:59739849-59768354	26.506
Tfg	92	0	1.533407	146	2.433333	15.7872	41.45105	Stalled	chr16:56690444-56719467	27.024
Cyb5	92	0	1.533407	248	4.133333	22.2741	13.25456	Stalled	chr18:85018805-85049255	28.451
Znhit6	92	0	1.533407	217	3.616667	13.8517	16.24859	Stalled	chr3:145237171-145268209	29.039
Sh3glb1	92	0	1.533407	437	7.283333	8.46605	8.215534	Stalled	chr3:144351807-144385287	31.481
Nufip2	92	0	1.533407	802	13.36667	2.53122	19.65613	Stalled	chr11:77497640-77531468	31.829
Snupn	92	0	1.533407	133	2.216667	3.48665	68.73145	Stalled	chr9:56796730-56831006	32.277
Zmpste24	92	0	1.533407	286	4.766667	12.9881	19.70691	Stalled	chr4:120731842-120772848	39.007
Zfp395	92	0	1.533407	281	4.683333	2.87656	10.41904	Stalled	chr14:65975512-66017767	40.256
Heatr1	92	0	1.533407	762	12.7	12.6366	7.6106	Stalled	chr13:12485641-12531160	43.52
Zc3hav1	92	0	1.533407	1777	29.61667	27.5434	15.18164	Stalled	chr6:38260496-38306603	44.108
Gm1060	92	0	1.533407	55	0.916667	0.123586	1.044152	Unclassified	chr5:30605913-30668993	61.081
Itgb3bp	92	0	1.533407	91	1.516667	0.460986	42.84072	Stalled	chr4:99432092-99497809	63.718
BC067068	92	0	1.533407	308	5.133333	4.24763	77.55753	Stalled	chr10:105200241-105280436	78.196
Rasgef1c	92	0	1.533407	115	1.916667	0.148496	2.413535	Unclassified	chr11:49713336-49793725	78.39
Mrpl11	91	0	1.516739	29	0.483333	37.5189	3.67189	Stalled	chr19:4960314-4964943	2.63
2310016C08Rik	91	0	1.516739	36	0.6	9.48686	15.48131	Stalled	chr6:29220671-29225442	2.772
Vmac	91	0	1.516739	22	0.366667	4.21849	6.971114	Stalled	chr17:56853354-56858344	2.991
Wdr55	91	0	1.516739	91	1.516667	30.718	4.890661	Stalled	chr18:36917892-36923362	3.471
Rplp0	91	0	1.516739	380	6.333333	940.176	4.459842	Stalled	chr5:116007475-116013736	4.262
Ppapdc1b	91	0	1.516739	128	2.133333	16.0956	5.681048	Stalled	chr8:26828519-26835359	4.841
Sepx1	91	0	1.516739	52	0.866667	31.86	14.47755	Stalled	chr17:24871586-24879723	6.138
6430531B16Rik	91	0	1.516739	34	0.566667	1.0484	1.935317	Unclassified	chr7:147158201-147166654	6.454

Abhd8	91	0	1.516739	31	0.516667	11.2784	4.353283	Stalled	chr8:73980598-73989556	6.959
Rwdd2b	91	0	1.516739	45	0.75	6.43488	31.52086	Stalled	chr16:87433575-87442837	7.263
Cox19	91	0	1.516739	120	2	21.6534	6.278394	Stalled	chr5:139813775-139823120	7.346
Suv420h2	91	0	1.516739	189	3.15	22.2454	5.493411	Stalled	chr7:4689728-4699116	7.389
Nsa2	91	0	1.516739	62	1.033333	10.0174	32.91758	Stalled	chr13:97899381-97909881	8.501
Rmi1	91	0	1.516739	123	2.05	4.7565	38.94053	Stalled	chr13:58501957-58512510	8.554
Zfp239	91	0	1.516739	59	0.983333	2.55029	9.501027	Stalled	chr6:117811094-117822784	9.691
Prdx6	91	0	1.516739	236	3.933333	15.3349	10.09458	Stalled	chr1:163170242-163183297	11.056
Usf2	91	0	1.516739	232	3.866667	29.1067	5.221908	Stalled	chr7:31730268-31743822	11.555
Taf6l	91	0	1.516739	588	9.8	13.3592	2.30295	Elongating	chr19:8848981-8862753	11.773
1110004F10Rik	91	0	1.516739	98	1.633333	36.7243	26.57439	Stalled	chr7:123234893-123248724	11.832
Phb	91	0	1.516739	159	2.65	26.0015	11.53579	Stalled	chr11:95526303-95542087	13.785
Alas1	91	0	1.516739	200	3.333333	8.99733	15.99877	Stalled	chr9:106135785-106152285	14.501
1700025K23Rik	91	0	1.516739	18	0.3	1.43867	73.7621	Stalled	chr10:38838613-38855701	15.089
Gdx55	91	0	1.516739	281	4.683333	8.38481	17.26166	Stalled	chr5:125000872-125018947	16.076
Gcxc	91	0	1.516739	267	4.45	3.70377	8.33119	Stalled	chr6:72362326-72380701	16.376
Tube1	91	0	1.516739	76	1.266667	4.37482	29.62167	Stalled	chr10:38851828-38870664	17.037
Adprhl1	91	0	1.516739	38	0.633333	0.018779	5.04544	Unclassified	chr8:13235661-13256162	18.502
Mtl5	91	0	1.516739	48	0.8	1.30517	33.706	Stalled	chr19:3386868-3407785	18.918
Insrr	91	0	1.516739	94	1.566667	1.12504	0.323704	Unclassified	chr3:87598872-87620023	19.152
Det1	91	0	1.516739	169	2.816667	4.31771	21.9591	Stalled	chr7:85972359-85994097	19.739
Rnf14	91	0	1.516739	135	2.25	9.12065	24.74429	Stalled	chr18:38454288-38477501	21.214
Trim7	91	0	1.516739	263	4.383333	6.59724	0.806092	Stalled	chr11:48637639-48663697	24.059
Scrn3	91	0	1.516739	40	0.666667	0.307876	68.52836	Stalled	chr2:73148708-73175864	25.157
Dnajc27	91	0	1.516739	334	5.566667	3.81371	22.43152	Stalled	chr12:4080611-4110602	27.992
Cir1	91	0	1.516739	147	2.45	3.63479	29.19408	Stalled	chr2:73121928-73152649	28.722
Ewsr1	91	0	1.516739	1016	16.93333	95.8418	12.99408	Stalled	chr11:4969690-5001080	29.391
Brd3	91	0	1.516739	469	7.816667	9.51488	8.82001	Stalled	chr2:27301100-27333193	30.094
Heatr6	91	0	1.516739	348	5.8	4.15312	16.60109	Stalled	chr11:83565138-83597256	30.119
Taf15	91	0	1.516739	529	8.816667	80.4096	16.26953	Stalled	chr11:83284609-83320242	33.634
Fbxo32	91	0	1.516739	98	1.633333	3.19139	17.18247	Stalled	chr15:58011633-58048433	34.801
Atp1a4	91	0	1.516739	65	1.083333	0.105516	0.685767	Unclassified	chr1:174153639-174190555	34.917
Fnbp4	91	0	1.516739	921	15.35	23.5434	9.862737	Stalled	chr2:90583526-90621177	35.652
Thoc1	91	0	1.516739	424	7.066667	5.86418	27.92126	Stalled	chr18:9956177-9995482	37.306
Klh120	91	0	1.516739	189	3.15	6.06618	37.71185	Stalled	chr1:163018508-163063610	43.103
Sei1	91	0	1.516739	702	11.7	18.1821	13.41389	Stalled	chr12:93044482-93089597	43.116
Gfm2	91	0	1.516739	450	7.5	10.4331	26.26978	Stalled	chr13:97905891-97951150	43.26
Msh4	91	0	1.516739	291	4.85	0.073085	43.18043	Stalled	chr3:153520110-153571102	48.993
Zc3h6	91	0	1.516739	250	4.166667	1.77527	92.08268	Stalled	chr2:128791137-128844299	51.163
Trappc10	91	0	1.516739	709	11.81667	6.91393	8.546045	Stalled	chr10:77649470-77709387	57.918
LOC547349	91	0	1.516739	597	9.95	0	10.4631	Stalled	chr17:35400723-35462354	59.632
Atf7ip	91	0	1.516739	1290	21.5	11.2801	12.26346	Stalled	chr6:136465371-136555900	88.53
Sap130	91	0	1.516739	672	11.2	9.96444	28.85425	Stalled	chr18:31792036-31882715	88.68
Rbpms	91	0	1.516739	322	5.366667	1.16815	5.30839	Stalled	chr8:34893115-35042313	147.199
Asp1	91	0	1.516739	2862	47.7	9.3912	1.115739	Stalled	chr15:63920100-64216481	294.382
Fars2	91	0	1.516739	1424	23.73333	10.8853	32.74903	Stalled	chr13:36207279-36629462	420.184
Dpm2	90	0	1.500072	66	1.1	19.0078	4.356199	Stalled	chr2:32424377-32429091	2.715
Lsm3	90	0	1.500072	121	2.016667	32.7892	9.356759	Stalled	chr6:91464028-91472614	6.587
Tsfm	90	0	1.500072	90	1.5	18.0913	15.89172	Stalled	chr10:126459387-126469870	8.484
Mapk8ip2	90	0	1.500072	18	0.3	0.163011	2.656263	Unclassified	chr15:89282341-89292877	8.537
Irg1	90	0	1.500072	121	2.016667	1.55486	1.454011	Elongating	chr14:103444228-103455790	9.563
Zbtb8os	90	0	1.500072	99	1.65	18.3884	24.23118	Stalled	chr4:129011269-129024273	11.005
Gins4	90	0	1.500072	116	1.933333	18.781	11.97049	Stalled	chr8:24337081-24350140	11.06
Fpgs	90	0	1.500072	211	3.516667	12.1382	11.11327	Stalled	chr2:32538128-32551695	11.568
2610318N02Rik	90	0	1.500072	290	4.833333	7.89968	7.05191	Stalled	chr16:17113490-17127199	11.71
Cpsf1	90	0	1.500072	316	5.266667	20.4682	4.818057	Stalled	chr15:76426238-76440021	11.784
Sic20a1	90	0	1.500072	283	4.716667	14.9168	21.20137	Stalled	chr2:129022508-129037346	12.839
Ddx18	90	0	1.500072	288	4.8	15.0887	6.809411	Stalled	chr1:123450413-123466557	14.145
Serinc1	90	0	1.500072	127	2.116667	13.4028	22.9531	Stalled	chr10:57235583-57254335	16.753
Tbp	90	0	1.500072	150	2.5	6.76569	24.33362	Stalled	chr17:15634851-15654391	17.541
Dpcd	90	0	1.500072	260	4.333333	9.95483	5.182865	Stalled	chr19:45633104-45652777	17.674
Abca7	90	0	1.500072	244	4.066667	10.719	1.429719	Elongating	chr10:79458359-79478317	17.959
Ets2	90	0	1.500072	162	2.7	1.79156	16.40047	Stalled	chr16:95922013-95942654	18.642
Ctdsp2	90	0	1.500072	248	4.133333	10.5351	2.492284	Elongating	chr10:126413772-126437031	21.26
E130120F12Rik	90	46	1.500072	55	0.916667	1.27155	21.53989	Stalled	chr13:67440244-67463508	21.265
Ociad1	90	0	1.500072	371	6.183333	61.3774	17.83365	Stalled	chr5:73682032-73705316	21.285
Fam76a	90	0	1.500072	125	2.083333	4.02836	27.44256	Stalled	chr4:132455128-132480466	23.339
Aimp1	90	0	1.500072	203	3.383333	33.99	25.22498	Stalled	chr3:132323461-132348843	23.383
Chmp2b	90	0	1.500072	80	1.333333	6.78373	26.40173	Stalled	chr16:65539377-65564942	23.566
Ddx19b	90	0	1.500072	146	2.433333	6.73654	22.52436	Stalled	chr8:113527087-113553664	24.578
Klf3	90	0	1.500072	531	8.85	8.84653	10.44364	Stalled	chr5:65192761-65221368	26.608
Capn1	90	0	1.500072	242	4.033333	20.8985	7.297254	Stalled	chr19:5988544-6017247	26.704
Tmem39a	90	0	1.500072	386	6.433333	16.5835	19.30425	Stalled	chr16:38560971-38591497	28.527
Tsen2	90	0	1.500072	151	2.516667	3.20622	43.53949	Stalled	chr6:115492721-115528354	33.634
Mrp148	90	0	1.500072	197	3.283333	13.1754	16.64996	Stalled	chr7:107697630-107733644	34.015
Rab40c	90	0	1.500072	371	6.183333	6.03006	6.016342	Stalled	chr17:26019059-26058659	37.601
Cep63	90	0	1.500072	373	6.216667	6.85832	54.0452	Stalled	chr9:102488907-102530454	39.548
Ccdc111	90	0	1.500072	365	6.083333	2.29091	34.74038	Stalled	chr8:47660947-47704554	41.608
Tmem48	90	0	1.500072	471	7.85	7.67603	12.25866	Stalled	chr4:107038388-107086943	46.556
4933421E11Rik	90	0	1.500072	470	7.833333	7.18134	3.887197	Stalled	chr3:106485904-106539494	51.591
Dnaic1	90	0	1.500072	77	1.283333	0.437362	37.33038	Stalled	chr4:41514826-41585190	68.365
Tbck	90	0	1.500072	259	4.316667	2.51625	78.94237	Stalled	chr3:132345107-132459798	112.692
Pf20	90	0	1.500072	1149	19.15	4.06283	28.49309	Stalled	chr2:156020382-156135689	113.308
Jmjd1c	90	0	1.500072	1452	24.2	6.71864	2.836848	Elongating	chr10:66588005-66719073	129.069
Ufsp1	89	0	1.483404	0	0	5.22361	430	Unclassified	chr5:137733896-137736892	0.997
Rps2	89	0	1.483404	140	2.333333	127.896	4.494942	Unclassified	chr17:24855007-24858871	1.865

Zbtb9	89	0	1.483404	53	0.883333	7.11301	14.87486	Stalled	chr17:27108123-27113148	3.026
Bat4	89	0	1.483404	32	0.533333	15.5351	21.30226	Stalled	chr17:35256440-35261760	3.321
Pex12	89	0	1.483404	154	2.566667	3.54549	10.91315	Stalled	chr11:83108146-83114479	4.334
Csnk2b	89	0	1.483404	76	1.266667	59.3355	15.849	Stalled	chr17:35253139-35260392	5.254
2010107E04Rik	89	0	1.483404	112	1.866667	29.2083	8.210972	Stalled	chr12:113199586-113207188	5.603
Rhbdd3	89	0	1.483404	140	2.333333	5.83319	17.9758	Stalled	chr11:4997440-5006094	6.655
B3gnt6	89	0	1.483404	22	0.366667	1.08277	1.080108	Unclassified	chr7:105340924-105349985	7.062
Ankzf1	89	0	1.483404	49	0.816667	15.1096	17.65457	Stalled	chr1:75186708-75195960	7.253
Cdh24	89	0	1.483404	74	1.233333	1.75682	28.261	Stalled	chr14:55250828-55262201	9.374
Psmd4	89	0	1.483404	230	3.833333	76.7015	7.996383	Stalled	chr3:94836626-94848467	9.842
2500003M10Rik	89	0	1.483404	278	4.633333	37.9378	13.0349	Stalled	chr3:90302879-90315365	10.487
Atg9a	89	0	1.483404	121	2.016667	7.43174	9.747465	Stalled	chr1:75177439-75190497	11.059
Dhrs4	89	0	1.483404	61	1.016667	22.309	36.21846	Stalled	chr14:56095594-56109175	11.582
Parp2	89	0	1.483404	165	2.75	14.3186	16.92927	Stalled	chr14:51425620-51440975	13.356
Pprc1	89	0	1.483404	845	14.08333	12.951	5.39574	Stalled	chr19:46129028-46147399	16.372
Oit3	89	0	1.483404	123	2.05	2.51448	0.253101	Stalled	chr10:58885707-58906527	18.821
3830406C13Rik	89	0	1.483404	97	1.616667	1.9446	32.12304	Stalled	chr14:13114722-13135745	19.024
Phyh	89	0	1.483404	69	1.15	7.22428	42.30592	Stalled	chr2:4838041-4859789	19.749
Itpkc	89	0	1.483404	196	3.266667	5.12839	27.56224	Stalled	chr7:27992188-28015616	21.429
Kif2c	89	0	1.483404	261	4.35	13.8548	9.552216	Stalled	chr4:116832254-116857229	22.976
Mx2	89	0	1.483404	604	10.06667	2.28691	7.133449	Stalled	chr16:97755687-97782508	24.822
Hnrnp1	89	0	1.483404	500	8.333333	27.8807	23.18236	Stalled	chr4:135864890-135896593	29.704
Ptgr2	89	0	1.483404	134	2.233333	6.58415	65.89286	Stalled	chr12:85624263-85656782	30.52
Dhx30	89	0	1.483404	845	14.08333	15.3391	0.069154	Stalled	chr9:109986823-110020086	31.264
Slc25a36	89	0	1.483404	145	2.416667	2.38683	35.067	Stalled	chr9:96977429-97013460	34.032
Gtf2a1	89	0	1.483404	993	16.55	1.81092	12.92772	Stalled	chr12:92793702-92830927	35.226
Rcbtb1	89	0	1.483404	246	4.1	6.65861	27.05483	Stalled	chr14:59818064-59856102	36.039
Lanc12	89	0	1.483404	172	2.866667	6.81139	9.172234	Stalled	chr6:57650448-57689443	36.996
Cdk5rap1	89	0	1.483404	278	4.633333	4.96967	31.55695	Stalled	chr2:154161121-154200455	37.335
Ifi3	89	0	1.483404	1294	21.56667	30.5218	8.390601	Stalled	chr9:21170446-21209805	37.36
Tfb1m	89	0	1.483404	102	1.7	7.23285	75.74583	Stalled	chr17:3519255-3559713	38.459
Soat1	89	0	1.483404	258	4.3	2.78773	13.86986	Stalled	chr1:158358238-158406459	46.222
Alg6	89	0	1.483404	144	2.4	1.12356	34.35734	Stalled	chr4:99380320-99430151	47.832
Iars	89	0	1.483404	716	11.93333	19.1641	17.99873	Stalled	chr13:49775498-49829636	52.139
Smarcal1	89	0	1.483404	374	6.233333	4.67218	15.52033	Stalled	chr1:72627824-72683363	53.54
Map3k3	89	0	1.483404	930	15.5	9.01515	11.26976	Stalled	chr11:105944215-106016748	70.534
Ccdc15	89	0	1.483404	119	1.983333	2.63929	152.0862	Stalled	chr9:37083419-37157977	72.559
Arntl	89	0	1.483404	592	9.866667	2.71359	29.53234	Stalled	chr7:120348978-120457636	106.659
Arhgap12	89	0	1.483404	343	5.716667	2.78603	63.17282	Stalled	chr18:6024447-6138096	111.65
Pou2f1	89	0	1.483404	1045	17.41667	3.22732	18.85166	Stalled	chr1:167805604-167934765	127.162
Hdac4	89	0	1.483404	1775	29.58333	1.71145	2.265455	Elongating	chr1:93829331-94046970	215.64
Tasp1	89	0	1.483404	565	9.416667	3.32221	81.57585	Stalled	chr2:139659215-139894496	233.282
Tomm6	88	0	1.466737	19	0.316667	74.5311	10.56134	Unclassified	chr17:47823594-47827335	1.742
Ftl1	88	0	1.466737	99	1.65	147.122	2.975266	Unclassified	chr7:52713313-52717256	1.944
1700066B19Rik	88	0	1.466737	242	4.033333	7.29124	0.058845	Stalled	chr18:35884642-35890523	3.882
Tob1	88	0	1.466737	8	0.133333	3.54254	101.3333	Stalled	chr11:94070767-94076806	4.04
Mrto4	88	0	1.466737	173	2.883333	23.0097	9.198552	Stalled	chr4:138903359-138910213	4.855
Snrpe	88	0	1.466737	184	3.066667	73.5699	7.284714	Stalled	chr1:135500447-135508857	6.411
Med8	88	0	1.466737	122	2.033333	12.6533	12.99276	Stalled	chr4:118079941-118088387	6.447
Gstt3	88	0	1.466737	38	0.633333	8.29199	4.547072	Stalled	chr10:75236866-75246159	7.294
Asna1	88	0	1.466737	114	1.9	51.9128	4.800696	Stalled	chr8:87541829-87551177	7.349
Pih1d2	88	0	1.466737	16	0.266667	0	65.92652	Stalled	chr9:50423425-50433097	7.673
Lass2	88	0	1.466737	296	4.933333	27.6071	7.044936	Stalled	chr3:95117173-95127490	8.318
Fahd2a	88	0	1.466737	76	1.266667	4.12186	13.84635	Stalled	chr2:127261951-127272301	8.351
H47	88	0	1.466737	295	4.916667	46.1383	11.33104	Stalled	chr7:73222534-7324291	9.758
Dyrk3	88	0	1.466737	78	1.3	2.45529	13.07166	Stalled	chr1:133025017-133036811	9.795
Taf13	88	0	1.466737	29	0.483333	2.22602	77.41802	Stalled	chr3:108372616-108384986	10.371
Ube216	88	0	1.466737	27	0.45	5.80292	5.200403	Stalled	chr2:84636984-84650158	11.175
Nhlrc3	88	0	1.466737	97	1.616667	4.55851	27.08003	Stalled	chr3:53255917-53269180	11.264
Em13	88	0	1.466737	326	5.433333	14.7327	7.04687	Stalled	chr19:9002183-9016072	11.89
AU019823	88	0	1.466737	212	3.533333	3.3619	9.655649	Stalled	chr9:50413344-50427569	12.226
Sh3bp1	88	0	1.466737	166	2.766667	16.3138	4.640228	Stalled	chr15:78728215-78742482	12.268
Zfp825	88	0	1.466737	17	0.283333	2.46786	87.13129	Stalled	chr13:74617504-74633398	13.895
BC019943	88	46	1.466737	506	8.433333	15.2282	11.70338	Stalled	chr8:32258787-32275175	14.389
Prom2	88	0	1.466737	22	0.366667	0.018205	1.139063	Unclassified	chr2:127352688-127369153	14.466
Utp11l	88	0	1.466737	147	2.45	38.9726	11.66546	Stalled	chr4:124356007-124372798	14.792
Mrps31	88	0	1.466737	162	2.7	8.13235	12.75415	Stalled	chr8:23519811-23540137	18.327
Npc2	88	0	1.466737	382	6.366667	47.0861	13.92783	Stalled	chr12:86095508-86116062	18.555
Prkrip1	88	0	1.466737	376	6.266667	13.6501	6.751666	Stalled	chr5:136656226-136676824	18.599
Sfrs12ip1	88	0	1.466737	106	1.766667	7.39351	20.35383	Stalled	chr13:105605318-105628739	21.422
Tk2	88	0	1.466737	378	6.3	3.69478	10.83033	Stalled	chr8:106750590-106774458	21.869
I7Rn6	88	0	1.466737	72	1.2	15.9885	35.40923	Stalled	chr7:97067198-97091695	22.498
Rnpc3	88	0	1.466737	172	2.866667	3.92905	56.25381	Stalled	chr3:113307984-113335067	25.084
Vps26b	88	0	1.466737	120	2	3.56645	27.55366	Stalled	chr9:26812087-26839679	25.593
C230096C10Rik	88	0	1.466737	346	5.766667	4.81491	26.82295	Stalled	chr4:138906507-138934645	26.139
Anxa5	88	0	1.466737	91	1.516667	13.7598	39.95571	Stalled	chr3:36347847-36376809	26.963
Hpgds	88	0	1.466737	513	8.55	3.35461	5.195088	Stalled	chr6:65067287-65096724	27.438
Dntt	88	0	1.466737	94	1.566667	0.191935	2.136014	Unclassified	chr19:41101764-41134015	30.252
Nbn	88	0	1.466737	398	6.633333	5.42217	27.3433	Stalled	chr4:15883113-15919736	34.624
Trap1	88	0	1.466737	576	9.6	30.3272	21.51791	Stalled	chr16:4039976-4079810	37.835
Rad23b	88	0	1.466737	726	12.1	34.4989	19.33131	Stalled	chr4:55360913-55405109	42.197
Rftn2	88	0	1.466737	242	4.033333	1.88306	1.682042	Unclassified	chr1:55227003-55285626	56.624
Ncapd3	88	0	1.466737	515	8.583333	5.95666	20.26789	Stalled	chr9:26835759-26902900	65.142
Eif2b3	88	0	1.466737	400	6.666667	10.6158	31.48181	Stalled	chr4:116690012-116759457	67.446
Rev1	88	0	1.466737	709	11.81667	3.06568	17.49816	Stalled	chr1:38109630-38188507	76.878
Whrn	88	0	1.466737	418	6.966667	3.56774	8.517897	Stalled	chr4:63075943-63158985	81.043

Nln	88	0	1.466737	307	5.116667	2.70501	23.67373	Stalled	chr13:104813518-104901694	86.177
Sdcccag10	88	0	1.466737	628	10.46667	12.2765	30.89902	Stalled	chr13:105421406-105609033	185.628
Fhit	88	0	1.466737	1260	21	0.973524	10.10015	Stalled	chr14:10382607-11996546	1611.94
Ctxn1	87	0	1.450069	17	0.283333	0.899024	4.788429	Unclassified	chr8:4257645-4261274	1.63
Mrp63	87	0	1.450069	49	0.816667	23.2472	14.27148	Stalled	chr14:58443075-58447582	2.508
Tuba1a	87	0	1.450069	16	0.266667	0	37.72727	Stalled	chr15:98780277-98785932	3.656
BC031181	87	0	1.450069	31	0.516667	47.3815	43.87307	Stalled	chr18:75163553-75169587	4.035
Pigc	87	0	1.450069	31	0.516667	1.98772	18.2139	Stalled	chr1:163897318-163903566	4.249
Sic34a3	87	0	1.450069	14	0.233333	0.088563	0	Unclassified	chr2:25084417-25091727	5.311
Nxn11	87	0	1.450069	22	0.366667	0.32235	0.188072	Unclassified	chr8:74084453-74092548	6.096
Lig4	87	0	1.450069	19	0.316667	3.86829	21.39025	Stalled	chr8:9970019-9978323	6.305
Tmem171	87	0	1.450069	22	0.366667	0.443547	1.026525	Unclassified	chr13:99456192-99466786	8.595
Narfl	87	0	1.450069	225	3.75	8.14007	4.14053	Stalled	chr17:25908720-25920277	9.558
Rasip1	87	0	1.450069	134	2.233333	1.736	1.16848	Stalled	chr7:52880906-52894462	11.557
Tfip11	87	0	1.450069	479	7.983333	16.166	4.328695	Stalled	chr5:112753388-112767093	11.706
Dact3	87	0	1.450069	72	1.2	2.11629	4.501048	Stalled	chr7:17458665-17472650	11.986
Ctbs	87	0	1.450069	42	0.7	2.80603	44.40299	Stalled	chr3:146111456-146128735	15.28
Wsb1	87	0	1.450069	363	6.05	20.7576	14.72038	Stalled	chr11:79052883-79070197	15.315
Nosip	87	0	1.450069	289	4.816667	19.4021	9.370565	Stalled	chr7:52315798-52333873	16.076
Atpaf2	87	0	1.450069	186	3.1	14.4531	17.28192	Stalled	chr11:60214127-60232601	16.475
Man1b1	87	0	1.450069	456	7.6	18.0967	11.20416	Stalled	chr2:25186275-25207732	19.458
F630043A04Rik	87	0	1.450069	185	3.083333	5.46094	42.6714	Stalled	chr14:58425397-58447000	19.604
Pef1	87	0	1.450069	232	3.866667	9.9554	7.627156	Stalled	chr4:129782799-129805378	20.58
Bco2	87	0	1.450069	119	1.983333	1.18555	1.80386	Unclassified	chr9:50341191-50365243	22.053
Mxd1	87	0	1.450069	176	2.933333	1.90806	15.31884	Stalled	chr6:86597038-86621153	22.116
Them4	87	0	1.450069	57	0.95	1.5187	47.7711	Stalled	chr3:94112053-94136454	22.402
4933439F18Rik	87	0	1.450069	207	3.45	4.20545	27.81382	Stalled	chr11:60228646-60258779	28.134
Vdac1	87	0	1.450069	327	5.45	36.5613	28.0313	Stalled	chr11:52172616-52202898	28.283
Pagr3	87	0	1.450069	647	10.78333	3.66262	2.386209	Elongating	chr5:97511347-97542615	29.269
Vps26a	87	0	1.450069	156	2.6	10.9066	26.82959	Stalled	chr10:61917590-61951553	31.964
Anapc4	87	0	1.450069	180	3	12.6555	30.91388	Stalled	chr5:53223373-53257973	32.601
Ugcg	87	0	1.450069	666	11.1	9.28897	7.212614	Stalled	chr4:59200421-59235705	33.285
Aatk	87	0	1.450069	92	1.533333	0.073111	0.294473	Unclassified	chr11:119868631-119910029	39.399
Asb15	87	0	1.450069	41	0.683333	0.117029	52.29496	Stalled	chr6:24476143-24523164	45.022
Acer2	87	0	1.450069	102	1.7	0.694997	13.56649	Stalled	chr4:86518317-86566785	46.469
Spg11	87	0	1.450069	1057	17.61667	3.55234	17.89013	Stalled	chr2:121879262-121946122	64.861
Polq	87	0	1.450069	497	8.283333	4.60798	22.38183	Stalled	chr16:37009871-370995502	83.632
Inpp5f	87	0	1.450069	499	8.316667	2.99543	16.29341	Stalled	chr7:135752878-135839950	85.073
Bmp2k	87	0	1.450069	2594	43.23333	5.50779	8.423456	Stalled	chr5:97424707-97520067	93.361
Lims1	87	0	1.450069	843	14.05	5.4866	17.51987	Stalled	chr10:57784294-57887437	101.144
Fancg	87	0	1.450069	669	11.15	3.43885	47.8763	Stalled	chr13:63406016-63535053	127.038
Herc2	87	0	1.450069	572	9.533333	5.50253	67.44381	Stalled	chr7:63303524-63487168	181.645
Rnu12	86	17	1.433402	0	0	1.58743	431	Unclassified	chr15:82978074-82980224	0.151
Nop10	86	0	1.433402	0	0	40.1476	203	Unclassified	chr2:112100125-112103055	0.931
Rps27	86	0	1.433402	0	0	24.8228	361	Unclassified	chr3:90016592-90019569	0.978
Tmub1	86	0	1.433402	35	0.583333	5.69938	3.463927	Stalled	chr5:23951280-23955664	2.385
Tnfaip8l2	86	0	1.433402	76	1.266667	20.5933	2.483331	Stalled	chr3:94943442-94948282	2.841
Rel2	86	0	1.433402	30	0.5	1.98627	2.965119	Stalled	chr18:38113279-38118817	3.539
Aamp	86	0	1.433402	83	1.383333	60.5004	6.865574	Stalled	chr1:74326420-74333240	4.821
Tifaf	86	0	1.433402	22	0.366667	0.817329	3.355637	Stalled	chr13:56275063-56282246	5.184
Pdhh	86	0	1.433402	336	5.6	17.5072	3.194551	Stalled	chr14:8998504-9007506	7.003
1110008F13Rik	86	0	1.433402	196	3.266667	49.1241	16.17445	Stalled	chr2:156686857-156699296	10.44
1110049F12Rik	86	0	1.433402	208	3.466667	24.4693	17.81757	Stalled	chr4:135531516-135545159	11.644
Flii	86	0	1.433402	298	4.966667	22.413	6.931158	Stalled	chr11:60527650-60542723	13.074
Ttc16	86	0	1.433402	91	1.516667	0.038405	7.687996	Stalled	chr2:32617697-32632903	13.207
Zfp873	86	0	1.433402	53	0.883333	1.36749	38.6426	Stalled	chr10:81508871-81524331	13.461
AA881470	86	0	1.433402	161	2.683333	4.74258	17.48967	Stalled	chr5:141178976-141195288	14.313
Mkks	86	0	1.433402	78	1.3	6.06754	65.70938	Stalled	chr2:136699518-136719142	17.625
Ccbl1	86	0	1.433402	54	0.9	2.09091	23.14245	Stalled	chr2:30040650-30063219	20.57
Napg	86	0	1.433402	163	2.716667	5.06715	17.34308	Stalled	chr18:63135569-63159104	21.536
Chordc1	86	0	1.433402	195	3.25	18.7543	21.43326	Stalled	chr9:18094710-18118444	21.735
Relb	86	0	1.433402	770	12.83333	24.2021	8.946454	Stalled	chr7:20191570-20216787	23.218
Rab1	86	0	1.433402	474	7.9	17.7796	10.02845	Stalled	chr11:20099604-20126859	25.256
Sfrs11	86	0	1.433402	785	13.08333	42.9592	8.443218	Stalled	chr3:157673456-157701603	26.148
Mapre1	86	0	1.433402	454	7.566667	10.6258	13.05059	Stalled	chr2:153565022-153599050	32.029
Ercc8	86	0	1.433402	270	4.5	5.21155	24.82489	Stalled	chr13:108946931-108985175	36.245
Arsk	86	0	1.433402	41	0.683333	2.45312	63.30419	Stalled	chr13:76197869-76238108	38.24
B4galnt2	86	0	1.433402	215	3.583333	0.414037	0.568918	Unclassified	chr11:95724872-95778185	51.314
Map3k7	86	0	1.433402	505	8.416667	6.44091	43.50828	Stalled	chr4:32049081-32110439	59.359
Ttc37	86	0	1.433402	460	7.666667	3.22922	20.92587	Stalled	chr13:76234181-76325431	89.251
Sic20a2	86	0	1.433402	1085	18.08333	5.79423	17.41643	Stalled	chr8:23585171-23680088	92.918
Sos2	86	0	1.433402	425	7.083333	2.34514	16.17928	Stalled	chr12:70684747-70784839	98.093
Ndufaf2	86	0	1.433402	360	6	21.3697	48.11025	Stalled	chr13:108842782-108950819	106.038
Cacng2	86	0	1.433402	177	2.95	0.044393	0.413245	Unclassified	chr15:77824052-77951710	125.659
Cdk19	86	0	1.433402	825	13.75	5.61925	26.32598	Stalled	chr10:40067113-40203624	134.512
Arhgef10l	86	0	1.433402	297	4.95	0.384456	1.344789	Unclassified	chr4:140070399-140223820	151.422
2210009G21Rik	86	0	1.433402	654	10.9	4.19882	80.50016	Stalled	chr2:136714953-136895514	178.562
Rac3	85	0	1.416735	12	0.2	1.17602	2.226172	Stalled	chr11:120580781-120585283	2.503
Cd3eap	85	0	1.416735	74	1.233333	8.40906	2.510886	Stalled	chr7:19942214-19946768	2.555
1190007I07Rik	85	0	1.416735	13	0.216667	17.3773	26.90675	Stalled	chr10:82082596-82087973	3.378
Bcl7c	85	0	1.416735	57	0.95	24.7545	11.05921	Stalled	chr7:134848491-134854280	3.79
Dem1	85	0	1.416735	30	0.5	17.2094	31.20942	Stalled	chr4:120593806-120599610	3.805
AA388235	85	0	1.416735	18	0.3	0.906951	10.58252	Stalled	chr17:34116436-34122303	3.868
Fibp	85	0	1.416735	42	0.7	18.779	13.04706	Stalled	chr19:5458693-5464994	4.302
Ndufb7	85	0	1.416735	191	3.183333	168.575	4.345903	Stalled	chr8:86088656-86095522	4.867
Zbtb6	85	0	1.416735	45	0.75	1.22932	16.45311	Stalled	chr2:37281021-37288439	5.419

Thumpd1	85	0	1.416735	107	1.783333	16.7763	8.829377	Stalled	chr7:126858607-126866279	5.673
Vps25	85	0	1.416735	105	1.75	29.6532	12.8215	Stalled	chr11:101113056-101120860	5.805
Gmfj	85	0	1.416735	196	3.266667	30.6891	2.665605	Stalled	chr7:29223955-29231914	5.96
Sirt7	85	0	1.416735	224	3.733333	37.4328	5.959866	Stalled	chr11:120479685-120488316	6.632
Vamp1	85	0	1.416735	97	1.616667	4.33521	11.37294	Stalled	chr6:125163598-125172324	6.27
Nol12	85	0	1.416735	252	4.2	16.46	5.492784	Stalled	chr15:78763362-78772340	6.979
Amdhd2	85	0	1.416735	68	1.133333	9.79207	27.45983	Stalled	chr17:24292799-24302700	7.902
Zfp687	85	0	1.416735	417	6.95	6.79825	3.426864	Stalled	chr3:94810623-94821160	8.538
Eme1	85	0	1.416735	573	9.55	7.84795	2.309828	Elongating	chr11:94506315-94517068	8.754
Gmn	85	0	1.416735	220	3.666667	26.1001	16.27515	Stalled	chr13:24843713-24855806	10.094
Khsrp	85	0	1.416735	507	8.45	32.3089	3.883205	Stalled	chr17:57160471-57172930	10.46
Rbm43	85	0	1.416735	86	1.433333	8.53672	15.50503	Stalled	chr2:51779971-51792529	10.559
Tspo	85	0	1.416735	114	1.9	40.6757	6.85596	Stalled	chr15:83392002-83404633	10.632
Pigz	85	0	1.416735	166	2.766667	0.340197	0.252758	Stalled	chr16:31931936-31946132	12.197
Rnf6	85	0	1.416735	165	2.75	9.73909	17.40378	Stalled	chr5:147020779-147035013	12.235
Ropn11	85	0	1.416735	23	0.383333	3.60508	25.63838	Stalled	chr15:31370964-31385444	12.481
6330578E17Rik	85	0	1.416735	122	2.033333	13.2086	23.67011	Stalled	chr1:37473930-37488895	12.966
2310004I24Rik	85	0	1.416735	266	4.433333	6.17528	16.06127	Stalled	chr11:66851381-66868120	14.74
Sco1	85	0	1.416735	496	8.266667	3.90643	8.7802	Stalled	chr11:66864171-66880942	14.772
Fam128b	85	0	1.416735	54	0.9	24.8776	36.19892	Stalled	chr16:15848533-15865415	14.883
Fam173b	85	0	1.416735	102	1.7	4.60491	54.13093	Stalled	chr15:31529870-31547290	15.421
Rrm1	85	0	1.416735	548	9.133333	38.0719	10.31179	Stalled	chr7:109588208-109618285	28.078
Rab5a	85	0	1.416735	262	4.366667	9.47073	31.67072	Stalled	chr17:53616558-53647003	28.446
Sympk	85	0	1.416735	596	9.933333	31.5483	4.350234	Stalled	chr7:19607725-19639971	30.247
Uap1	85	0	1.416735	278	4.633333	11.1531	21.3348	Stalled	chr1:172072133-172107077	32.945
Napepld	85	0	1.416735	159	2.65	1.91012	71.28778	Stalled	chr5:21168720-21209163	38.444
Brwd2	85	0	1.416735	373	6.216667	6.79665	19.89792	Stalled	chr7:136733376-136779251	43.876
Stau1	85	0	1.416735	805	13.41667	12.4257	11.1741	Stalled	chr2:166773641-166823778	48.138
Usp8	85	0	1.416735	324	5.4	12.3757	43.46912	Stalled	chr2:126531098-126585028	51.931
Crem	85	0	1.416735	290	4.833333	4.14485	83.64403	Stalled	chr18:3266351-3339587	71.237
Zfml	85	0	1.416735	360	6	5.94689	48.39487	Stalled	chr6:83862346-83936863	72.518
Trip4	85	50	1.416735	1221	20.35	3.57299	10.19333	Stalled	chr9:65676733-65758601	79.869
Trak1	85	0	1.416735	1984	33.06667	11.0814	1.176552	Elongating	chr9:121274075-121384036	107.962
Chd2	85	68	1.416735	4497	74.95	11.3363	5.567353	Stalled	chr7:80571537-80688632	115.096
Clpb	85	0	1.416735	620	10.33333	6.23516	14.8046	Stalled	chr7:108810281-108938682	126.402
Eufsec	85	0	1.416735	1510	25.16667	11.4512	31.14236	Stalled	chr6:88207327-88398533	189.207
Cubn	85	0	1.416735	251	4.183333	0.045267	0	Unclassified	chr2:13197964-13415503	215.54
CommD5	84	0	1.400067	8	0.133333	16.6786	10.62264	Unclassified	chr15:76728370-76731727	1.358
Rpl28	84	0	1.400067	104	1.733333	333.412	3.210816	Unclassified	chr7:4742566-4746149	1.584
Mocs3	84	0	1.400067	16	0.266667	10.4439	14.79942	Unclassified	chr2:168054121-168057802	1.682
Gmppb	84	0	1.400067	159	2.65	39.1833	2.492804	Stalled	chr9:107949620-107954267	2.648
Rpp38	84	0	1.400067	98	1.633333	3.88348	8.544696	Stalled	chr2:3246221-3251900	3.68
Hint1	84	0	1.400067	123	2.05	213.351	8.253213	Stalled	chr11:54677939-54683998	4.06
Bcl6b	84	0	1.400067	19	0.316667	0.684903	2.53168	Unclassified	chr11:70037629-70045223	5.595
Dhrs1	84	0	1.400067	61	1.016667	14.3596	15.03852	Stalled	chr14:56357858-56366521	6.664
Mett11d1	84	0	1.400067	59	0.983333	11.0608	10.38224	Stalled	chr14:52502516-52511543	7.028
Usmg5	84	0	1.400067	94	1.566667	32.4606	21.7583	Stalled	chr19:47157960-47167115	7.156
BC027344	84	0	1.400067	55	0.916667	3.40549	13.95028	Stalled	chr7:30628954-30640667	9.714
Mgat4b	84	0	1.400067	54	0.9	2.84368	9.221284	Stalled	chr11:50036836-50048605	9.77
Zcchc9	84	0	1.400067	182	3.033333	12.2076	22.11105	Stalled	chr13:91936137-91949301	11.165
Gm5081	84	0	1.400067	126	2.1	9.70712	26.34809	Stalled	chr12:58329398-58343153	11.756
Mrpl14	84	0	1.400067	88	1.466667	58.4716	20.20177	Stalled	chr17:45821320-45835444	12.125
Sec13	84	0	1.400067	432	7.2	67.4623	4.457015	Stalled	chr6:113678045-113692675	12.631
Cct4	84	0	1.400067	317	5.283333	72.8338	13.68336	Stalled	chr11:22888592-22903336	12.745
Camkv	84	0	1.400067	31	0.516667	0.126735	1.459004	Unclassified	chr9:107836250-107852022	13.773
Thap2	84	0	1.400067	84	1.4	2.24213	43.53464	Stalled	chr10:114807021-114823491	14.471
Taf9	84	0	1.400067	174	2.9	35.6495	24.39211	Stalled	chr13:101419297-101436368	15.072
PsmD13	84	0	1.400067	232	3.866667	50.3452	10.17695	Stalled	chr7:148066292-148084541	16.25
Sirt3	84	0	1.400067	189	3.15	9.28646	16.31164	Stalled	chr7:148049561-148070208	18.648
Mpz13	84	0	1.400067	72	1.2	4.95961	28.45446	Stalled	chr9:44861270-44882971	19.702
Rabepk	84	31	1.400067	716	11.93333	9.95083	4.730123	Stalled	chr2:34634185-34657311	21.127
Dpm1	84	0	1.400067	320	5.333333	10.9703	20.79106	Stalled	chr2:168034547-168057879	21.333
Rap2a	84	32	1.400067	66	1.1	2.40553	47.33957	Stalled	chr14:120875682-120906414	28.733
N4bp212	84	0	1.400067	339	5.65	3.09302	14.25658	Stalled	chr5:151438547-151470187	29.641
Rad17	84	0	1.400067	194	3.233333	5.97275	44.94581	Stalled	chr13:101387118-101423014	33.897
Ubqln1	84	0	1.400067	542	9.033333	44.1246	21.85021	Stalled	chr13:58277522-58318953	39.432
Nvl	84	0	1.400067	647	10.78333	10.2119	15.27624	Stalled	chr1:183023553-183076288	50.736
Smyd4	84	0	1.400067	187	3.116667	3.52345	69.16451	Stalled	chr11:75159934-75219207	57.274
Wwp2	84	0	1.400067	1316	21.93333	8.45016	18.5526	Stalled	chr8:109958297-110082495	122.199
Tcf712	84	0	1.400067	666	11.1	1.62251	8.909232	Stalled	chr19:55814299-56008144	191.846
Alkbh7	83	0	1.3834	12	0.2	20.5268	12.65122	Unclassified	chr17:57134775-57138745	1.971
Polr2d	83	0	1.3834	67	1.116667	23.844	23.04601	Stalled	chr18:31946812-31956355	7.544
Smarcd2	83	0	1.3834	407	6.783333	51.8491	5.970246	Stalled	chr11:106124484-106136286	9.803
Slc5a5	83	0	1.3834	38	0.633333	0.140069	13.05803	Stalled	chr8:73406787-73418656	9.87
Topors	83	0	1.3834	317	5.283333	9.37846	13.05265	Stalled	chr4:40206638-40218874	10.237
Krt222	83	0	1.3834	66	1.1	2.78877	6.824867	Stalled	chr11:99094411-99107381	10.971
Wdr85	83	0	1.3834	239	3.983333	7.35851	9.726084	Stalled	chr2:24815941-24828991	11.051
Trim45	83	0	1.3834	51	0.85	1.96973	16.24384	Stalled	chr3:100724415-100737933	11.519
2610110G12Rik	83	0	1.3834	183	3.05	8.61892	13.51104	Stalled	chr17:36034540-36049013	12.474
Alg12	83	0	1.3834	159	2.65	4.64732	29.484	Stalled	chr15:88635673-88651748	14.076
2310037I24Rik	83	0	1.3834	373	6.216667	20.1671	18.23973	Stalled	chr15:98349531-98366652	15.122
Gtf3c5	83	0	1.3834	267	4.45	10.9161	7.923595	Stalled	chr2:28421782-28440799	17.018
BC089883	83	0	1.3834	96	1.6	4.067	8.702892	Stalled	chr8:59010318-59031363	19.046
Ccdc126	83	0	1.3834	77	1.283333	1.21883	17.29003	Stalled	chr6:49267351-49291580	22.23
Rpap1	83	0	1.3834	238	3.966667	11.734	19.58275	Stalled	chr2:119589695-119615273	23.579
Mrpl3	83	0	1.3834	456	7.6	20.5569	4.794954	Stalled	chr9:104953597-104979806	24.21

Bbs2	83	0	1.3834	71	1.183333	2.67411	49.14379	Stalled	chr8:96591853-96624711	30.859
Dhx9	83	0	1.3834	1039	17.31667	59.614	13.28702	Stalled	chr1:155302887-155336790	31.904
Mgea5	83	0	1.3834	817	13.61667	18.729	13.01683	Stalled	chr19:45824748-45859781	33.034
Carm1	83	0	1.3834	917	15.28333	36.1487	4.857404	Stalled	chr9:21349337-21393909	42.573
Esco1	83	0	1.3834	211	3.516667	3.46988	60.92751	Stalled	chr18:10566509-10612350	43.842
Lsm14a	83	0	1.3834	658	10.96667	31.7088	31.03285	Stalled	chr7:35129738-35176559	44.822
Pacs2	83	0	1.3834	427	7.116667	4.38682	15.636	Stalled	chr12:114250718-114312612	59.895
Cd247	83	0	1.3834	466	7.766667	3.29283	0.765938	Stalled	chr1:167716819-167804117	85.299
Calcr1	83	0	1.3834	123	2.05	0.910311	45.38332	Stalled	chr2:84170790-84267423	94.634
Nars2	83	0	1.3834	269	4.483333	4.33061	85.96273	Stalled	chr7:104098036-104213267	113.232
Spag9	83	0	1.3834	770	12.83333	6.38903	31.9974	Stalled	chr11:93855404-93987396	129.993
Gnal	83	0	1.3834	415	6.916667	0.405333	0.497621	Unclassified	chr18:67245989-67386445	138.457
Pgp	82	0	1.366732	3	0.05	60.4098	14.52	Unclassified	chr17:24605417-24608541	1.125
Clpp	82	0	1.366732	105	1.75	33.9671	10.85342	Stalled	chr17:57127686-57135792	6.107
Sap30l	82	0	1.366732	43	0.716667	10.5642	27.70616	Stalled	chr11:57613138-57624117	8.98
Acaa1a	82	0	1.366732	87	1.45	19.5086	11.45656	Stalled	chr9:119248411-119259413	9.003
Dullard	82	0	1.366732	172	2.866667	41.2187	13.46194	Stalled	chr11:69792669-69804102	9.434
Syng4	82	0	1.366732	49	0.816667	0.611567	34.17371	Stalled	chr7:53142214-53154081	9.868
Nubp1	82	0	1.366732	810	13.5	43.5726	6.83484	Stalled	chr16:10410030-10424511	12.482
Mcart1	82	0	1.366732	163	2.716667	4.51602	14.69388	Stalled	chr4:45408795-45423633	12.839
1110054O05Rik	82	0	1.366732	485	8.083333	9.41341	7.795387	Stalled	chr4:59782518-59798727	14.21
Ppp1cc	82	0	1.366732	898	14.96667	30.9809	4.811639	Stalled	chr5:122606287-122625278	16.992
Nsfl1c	82	0	1.366732	235	3.916667	34.2049	11.28155	Stalled	chr2:151318043-151337040	16.998
Cisd2	82	0	1.366732	246	4.1	11.1923	30.87951	Stalled	chr3:135069376-135088397	17.022
9430015G10Rik	82	0	1.366732	121	2.016667	8.01475	36.37748	Stalled	chr4:155482106-155501370	17.265
Trim69	82	0	1.366732	126	2.1	0.072903	0.967229	Stalled	chr2:121984435-122004763	18.329
Wbp7	82	0	1.366732	769	12.81667	19.5242	6.395816	Stalled	chr7:31353873-31375745	19.873
Mina	82	0	1.366732	418	6.966667	23.9795	10.56457	Stalled	chr16:59469600-59492275	20.676
2810002N01Rik	82	0	1.366732	278	4.633333	20.2747	21.29947	Stalled	chr12:112949479-112972435	20.957
Wdr5	82	0	1.366732	454	7.566667	14.1963	9.412068	Stalled	chr2:27368666-27392053	21.388
Morn5	82	0	1.366732	52	0.866667	0.854422	45.34809	Stalled	chr2:35902992-35935229	30.238
Fam82b	82	0	1.366732	100	1.666667	3.16533	37.97433	Stalled	chr4:19500213-19534079	31.867
Flh2	82	0	1.366732	51	0.85	0.45099	1.755504	Unclassified	chr1:43179918-43222806	40.889
2010106G01Rik	82	0	1.366732	348	5.8	6.43229	30.15541	Stalled	chr2:126716137-126760971	42.835
Ppp2r5a	82	0	1.366732	562	9.366667	20.7047	28.13573	Stalled	chr1:193175859-19322920	45.062
Sesn3	82	0	1.366732	265	4.416667	8.74631	35.32284	Stalled	chr9:14078744-14130578	49.835
Rnmt1	81	0	1.350065	114	1.9	18.9613	12.76925	Stalled	chr11:76055237-76064124	6.888
Hmga1	81	0	1.350065	700	11.66667	62.1066	6.012746	Stalled	chr17:27691518-27700617	7.1
Zfp770	81	0	1.350065	42	0.7	1.95759	22.91828	Stalled	chr2:114019198-114029168	7.971
Fkbp7	81	0	1.350065	36	0.6	6.36455	21.72653	Stalled	chr2:76501090-76513155	10.066
Snrpd1	81	0	1.350065	250	4.166667	62.6631	7.056014	Stalled	chr18:10615793-10628228	10.436
Zfp709	81	0	1.350065	45	0.75	0.857306	22.65858	Stalled	chr8:74403966-74416464	10.499
Timm17a	81	0	1.350065	179	2.983333	26.6496	19.85104	Stalled	chr1:137198111-137212314	12.204
Zdhhc8	81	0	1.350065	146	2.433333	6.17567	8.145967	Stalled	chr16:18220845-18237229	14.385
Ttc4	81	0	1.350065	254	4.233333	11.2329	9.853428	Stalled	chr4:106334860-106353487	16.628
Epn1	81	0	1.350065	578	9.633333	66.5177	13.55801	Stalled	chr7:5029906-5049778	17.873
AB124611	81	0	1.350065	161	2.683333	31.4038	11.48123	Stalled	chr9:21328720-21349237	18.518
Gorab	81	0	1.350065	98	1.633333	1.80275	18.84737	Stalled	chr1:165315039-165335772	18.734
Nos3	81	0	1.350065	84	1.4	1.20913	0.363482	Unclassified	chr5:23868636-23890292	19.657
Wdr12	81	0	1.350065	225	3.75	8.28576	20.33773	Stalled	chr1:60133711-60156722	21.012
Glod4	81	0	1.350065	107	1.783333	9.50059	44.85144	Stalled	chr11:76033896-76059201	23.306
Saal1	81	0	1.350065	321	5.35	4.08725	13.59896	Stalled	chr7:53941477-53968021	24.545
Rad54l	81	0	1.350065	322	5.366667	13.6923	17.54041	Stalled	chr4:115769559-115798294	26.736
Cr1l	81	0	1.350065	157	2.616667	17.7301	35.55966	Stalled	chr1:196929981-196959764	27.784
Yars	81	0	1.350065	1034	17.23333	30.9743	8.29598	Stalled	chr4:128865038-128896851	29.814
Psqh1	81	0	1.350065	328	5.466667	4.6699	12.35783	Stalled	chr8:108422373-108455702	31.33
Wipi1	81	0	1.350065	112	1.866667	2.27121	8.668301	Stalled	chr11:109434834-109474703	37.87
S100pbp	81	0	1.350065	226	3.766667	6.82082	38.1362	Stalled	chr4:128828068-128868726	38.659
Ctnnbip1	81	0	1.350065	137	2.283333	1.43097	6.405878	Stalled	chr4:148890349-148940546	48.198
Carf	81	0	1.350065	77	1.283333	0.339466	90.84408	Stalled	chr1:60153124-60207878	52.755
Cep70	81	0	1.350065	92	1.533333	0.591232	32.51777	Stalled	chr9:99141886-99200822	56.937
Trpc4ap	81	0	1.350065	577	9.616667	23.7526	11.25755	Stalled	chr2:155460013-155520120	58.108
Ints4	81	0	1.350065	426	7.1	14.4421	18.85746	Stalled	chr7:104627465-104689907	60.443
Mbtd1	81	0	1.350065	348	5.8	2.55008	26.82258	Stalled	chr11:93745532-93808298	60.767
Arrhgef17	81	0	1.350065	135	2.25	0.217495	3.439555	Unclassified	chr7:108018259-108082675	62.417
Foxo1	81	0	1.350065	2107	35.11667	11.8159	9.267079	Stalled	chr3:52070258-52154031	81.774
Garni3	81	0	1.350065	148	2.466667	0.026488	4.02841	Unclassified	chr2:32841885-32944724	100.84
Pde3b	81	0	1.350065	390	6.5	10.0798	22.35436	Stalled	chr7:121556767-121681451	122.685
Skap2	81	0	1.350065	367	6.116667	16.1875	36.38116	Stalled	chr6:51809163-51964548	153.386
Hcfc1r1	80	0	1.333397	7	0.116667	11.1989	26.8977	Unclassified	chr17:23808574-23812491	1.918
Cbr1	80	0	1.333397	3	0.05	16.7596	19.45326	Stalled	chr16:93606081-93610594	2.514
Hras1	80	0	1.333397	66	1.1	16.863	6.226546	Stalled	chr7:148375832-148381903	4.072
Cdipt	80	0	1.333397	66	1.1	36.0028	5.016919	Stalled	chr7:134117862-134124015	4.154
Thoc6	80	0	1.333397	42	0.7	21.6793	21.41603	Stalled	chr17:23805585-23812737	5.153
Tsen34	80	0	1.333397	51	0.85	15.7171	15.94274	Stalled	chr7:3644109-3652637	6.529
Prhoxnb	80	0	1.333397	10	0.166667	0.486484	1.569276	Unclassified	chr5:148126561-148136016	7.456
Cdca4	80	0	1.333397	499	8.316667	28.4682	8.346473	Stalled	chr12:114058445-114069600	9.156
Clec2i	80	0	1.333397	308	5.133333	5.77761	2.03142	Elongating	chr6:128835631-128846866	9.236
Ssbp1	80	0	1.333397	109	1.816667	15.3897	24.39718	Stalled	chr6:40419413-40431822	10.41
P2ry14	80	0	1.333397	63	1.05	0.766314	0.576954	Unclassified	chr3:58918546-58936546	16.001
Tafr	80	0	1.333397	72	1.2	0.176048	3.419312	Stalled	chr4:132117981-132136781	16.801
Zc3h8	80	0	1.333397	117	1.95	3.83431	34.32119	Stalled	chr2:128752003-128771756	17.754
Ms4a6d	80	0	1.333397	17	0.283333	0.304245	1.005848	Unclassified	chr19:11661095-11681294	18.2
BC021785	80	0	1.333397	48	0.8	1.62288	1.094911	Unclassified	chr10:39677866-39708452	28.587
Mybl2	80	0	1.333397	1069	17.81667	24.0096	7.170534	Stalled	chr2:162878370-162910423	30.054
Ctse	80	0	1.333397	224	3.733333	7.52489	7.929111	Stalled	chr1:133532890-133572084	37.195

Sp3	80	0	1.333397	1000	16.66667	7.87202	26.47673	Stalled	chr2:72774489-72820503	44.015
Prmt3	80	0	1.333397	898	14.96667	7.06724	23.34373	Stalled	chr7:57031727-57113635	79.909
Ints6	80	0	1.333397	699	11.65	6.18942	79.63452	Stalled	chr14:63295164-63381949	84.786
Atg10d	80	0	1.333397	362	6.033333	2.39393	31.86454	Stalled	chr5:72592567-72690010	95.444
Sgk3	80	0	1.333397	1000	16.66667	2.73354	14.34271	Stalled	chr1:9786210-9892649	104.44
Mdn1	80	0	1.333397	1382	23.03333	7.47648	15.70082	Stalled	chr4:32742093-32862192	118.1
Mbnl1	80	0	1.333397	2026	33.76667	12.6128	11.48578	Stalled	chr3:60303173-60433670	128.498
Exosc6	79	0	1.31673	9	0.15	0	11.03217	Unclassified	chr8:113578238-113581499	1.262
1700067K01Rik	79	0	1.31673	55	0.916667	1.95082	1.37574	Elongating	chr8:86523604-86528669	3.066
Clec4g	79	0	1.31673	13	0.216667	0.228492	0.21597	Unclassified	chr8:3716071-3722651	4.581
Stk16	79	0	1.31673	220	3.666667	10.9291	3.326778	Stalled	chr1:75205403-75212181	4.779
Coq7	79	0	1.31673	69	1.15	14.2567	23.01845	Stalled	chr7:125668575-125678827	8.253
Ap2m1	79	0	1.31673	137	2.283333	35.5796	8.619207	Stalled	chr16:20533576-20544126	8.551
Zfp90	79	0	1.31673	42	0.7	3.39791	12.22905	Stalled	chr8:108937238-108949789	10.552
Ppid	79	0	1.31673	209	3.483333	22.5704	16.82319	Stalled	chr3:79393310-79407572	12.263
Tmem70	79	0	1.31673	174	2.9	12.7109	14.22371	Stalled	chr1:16653271-16668356	13.086
Calcoco1	79	0	1.31673	57	0.95	6.63649	5.613196	Stalled	chr15:102537209-102554500	15.292
Zfp809	79	0	1.31673	227	3.783333	10.0573	25.21729	Stalled	chr9:22028146-22047796	17.651
Nat15	79	0	1.31673	427	7.116667	12.0111	7.946271	Stalled	chr16:3882618-3904781	20.164
Ugdh	79	0	1.31673	89	1.483333	7.5482	40.65535	Stalled	chr5:65804460-65829081	22.622
Hps1	79	0	1.31673	307	5.116667	7.85896	15.24201	Stalled	chr19:42829685-42856466	24.782
Mogat1	79	0	1.31673	99	1.65	0.531357	0.208728	Unclassified	chr1:78505634-78534748	27.115
Styx11	79	0	1.31673	87	1.45	0.505732	93.26968	Stalled	chr5:136223518-136256161	30.644
Ccdc77	79	0	1.31673	138	2.3	4.11202	19.78253	Stalled	chr6:120274715-120309378	32.664
D16Erttd472e	79	0	1.31673	1341	22.35	7.54225	10.26845	Stalled	chr16:78540582-78578913	36.332
Zmyem6	79	0	1.31673	79	1.316667	2.4304	74.9822	Stalled	chr4:126752626-126801538	46.913
Gfpt1	79	0	1.31673	364	6.066667	9.12216	53.71543	Stalled	chr6:86990839-87042201	49.363
Ugp2	79	0	1.31673	350	5.833333	6.17183	29.82374	Stalled	chr11:21221146-21272882	49.737
Spnb4	79	0	1.31673	326	5.433333	1.01351	0.644554	Unclassified	chr7:28141401-28233608	90.208
9130011E15Rik	79	0	1.31673	626	10.43333	2.41609	37.41265	Stalled	chr19:45892633-46074978	180.346
Hist1h4f	78	27	1.300062	0	0	0	334	Unclassified	chr13:23643200-23645512	0.313
Cyb5d1	78	0	1.300062	1	0.016667	10.855	45.78802	Unclassified	chr11:69207113-69210848	1.736
E2f1	78	0	1.300062	409	6.816667	15.2929	6.037349	Stalled	chr2:154385374-154397588	10.215
Sepp1	78	0	1.300062	36	0.6	0.959829	1.885949	Unclassified	chr4:134093806-134110081	14.276
Pcmt2	78	0	1.300062	54	0.9	4.31614	25.31187	Stalled	chr2:181570607-181592155	19.549
Cenpk	78	0	1.300062	74	1.233333	3.06325	56.26443	Stalled	chr13:105017034-105039697	20.664
Ppwd1	78	0	1.300062	154	2.566667	8.76857	34.4607	Stalled	chr13:104995201-105020924	23.724
2310001A20Rik	78	0	1.300062	199	3.316667	11.1055	17.50345	Stalled	chr2:150408816-150436259	25.444
Tmem68	78	0	1.300062	147	2.45	2.62176	40.89604	Stalled	chr4:3476187-3503915	25.729
Accn2	78	0	1.300062	96	1.6	0.463077	0.469046	Unclassified	chr15:99499148-99531559	30.412
Tex9	78	0	1.300062	184	3.066667	3.85606	20.38041	Stalled	chr9:72308912-72341763	30.852
Gabbr2	78	0	1.300062	95	1.583333	0.017597	0.250523	Unclassified	chr4:33148086-33182840	32.755
Zbed4	78	0	1.300062	228	3.8	1.44828	31.7082	Stalled	chr15:88580140-88614946	32.807
Gxyt1	78	0	1.300062	334	5.566667	4.68775	23.77593	Stalled	chr15:93070172-93107515	35.344
Xpot	78	0	1.300062	630	10.5	8.14122	16.13083	Stalled	chr10:121024435-121065372	38.938
Tgs1	78	0	1.300062	357	5.95	5.93807	29.2972	Stalled	chr4:3500025-3543768	41.744
Rsbn1	78	0	1.300062	563	9.383333	13.2675	22.12609	Stalled	chr3:103716042-103770543	52.502
Kif7	78	0	1.300062	1117	18.61667	13.2254	20.02126	Stalled	chr1:64082246-64169963	85.718
Tox2	78	0	1.300062	188	3.133333	0.367274	0.67908	Unclassified	chr2:163049189-163148838	97.65
Ric8b	78	0	1.300062	451	7.516667	2.99151	21.03426	Stalled	chr10:84378360-84479192	98.833
Kdm4c	78	0	1.300062	493	8.216667	3.99853	69.83879	Stalled	chr4:73895851-74051765	153.915
Rttm	78	0	1.300062	351	5.85	2.68092	39.15055	Stalled	chr18:89139181-89300406	159.226
Snord35a	77	0	1.283395	0	0	0	254	Unclassified	chr7:52381716-52383805	0.09
Hist1h2ak	77	54	1.283395	0	0	0	488	Unclassified	chr13:21845303-21847696	0.394
Zfand2b	77	0	1.283395	74	1.233333	14.6292	5.188389	Stalled	chr1:75163219-75168199	2.981
Tmed9	77	0	1.283395	152	2.533333	128.602	7.302338	Stalled	chr13:55692495-55699055	4.561
Mpst	77	0	1.283395	31	0.516667	22.0453	13.44237	Stalled	chr15:78235533-78244438	6.906
ORF61	77	0	1.283395	363	6.05	49.9868	2.490103	Elongating	chr10:79439864-79449075	7.212
Igtp	77	0	1.283395	95	1.583333	15.5723	8.206856	Stalled	chr11:58011057-58021093	8.037
Trim58	77	0	1.283395	9	0.15	0.479443	1.646006	Unclassified	chr11:58451966-58465906	11.941
Mettl10	77	0	1.283395	179	2.983333	8.2159	29.76062	Stalled	chr7:140019143-140046330	25.188
6820408C15Rik	77	0	1.283395	42	0.7	0.975321	5.569046	Unclassified	chr2:152239322-152270064	28.743
Zbtb44	77	0	1.283395	201	3.35	1.29255	66.38894	Stalled	chr9:30836228-30883470	45.243
Kif20b	77	0	1.283395	373	6.216667	6.50979	20.3159	Stalled	chr19:34994847-35050221	53.375
Usp15	77	0	1.283395	1067	17.78333	12.2405	16.10929	Stalled	chr10:122550299-122635979	83.681
Stag1	77	0	1.283395	1603	26.71667	5.18097	49.29297	Stalled	chr9:100542041-100858963	314.923
Lsm7	76	0	1.266727	42	0.7	20.4626	7.219748	Stalled	chr10:80315569-80319954	2.386
Ccdc124	76	0	1.266727	154	2.566667	64.4537	4.473446	Stalled	chr8:73392125-73399389	5.265
3110056003Rik	76	0	1.266727	137	2.283333	4.24791	19.05588	Stalled	chr10:80316019-80331453	13.435
Sema6b	76	0	1.266727	120	2	1.08443	1.551299	Stalled	chr17:56262507-56281766	17.26
Mtif2	76	0	1.266727	349	5.816667	8.52815	13.15104	Stalled	chr11:29424456-29445255	18.8
Tnfsf10	76	0	1.266727	36	0.6	1.82447	20.24414	Stalled	chr3:27213998-27238587	22.59
Cs	76	0	1.266727	390	6.5	45.5527	15.95089	Stalled	chr10:127772887-127799535	24.649
Psmf1	76	0	1.266727	309	5.15	8.96867	14.68962	Stalled	chr2:151541797-151569029	25.233
Prune	76	0	1.266727	128	2.133333	3.55226	10.58042	Stalled	chr3:95057595-95087998	28.404
Etf1	76	0	1.266727	974	16.23333	28.8871	15.14873	Stalled	chr18:35062438-35093657	29.22
Ppil4	76	58	1.266727	373	6.216667	11.3627	22.05621	Stalled	chr10:7510691-7542361	29.671
Rars2	76	0	1.266727	269	4.833333	7.28415	55.18909	Stalled	chr4:34560206-34607414	45.209
Orc3l	76	0	1.266727	593	9.883333	3.7107	28.73264	Stalled	chr4:34514029-34564191	48.163
IL31ra	76	0	1.266727	50	0.833333	0.066424	0	Unclassified	chr13:113313016-113372870	57.855
Diap1	76	0	1.266727	941	15.68333	19.4251	18.68974	Stalled	chr18:38004478-38097065	90.588
Nfix	76	0	1.266727	451	7.516667	1.35108	2.873609	Elongating	chr8:87231497-87326239	92.743
Lmbrd1	76	0	1.266727	967	16.11667	4.67909	22.30339	Stalled	chr1:24683382-24823146	137.765
Mef2a	76	0	1.266727	1834	30.56667	9.47999	25.75757	Stalled	chr7:74378716-74519744	139.029
Tbc1d5	76	0	1.266727	1005	16.75	3.06795	100.0832	Stalled	chr17:50872451-51320674	446.224
B930007M17Rik	76	0	1.266727	306	5.1	0.209083	180.3643	Stalled	chr3:138866856-139373263	504.408

Snora64	75	0	1.25006	0	0	29.1349	121	Unclassified	chr17:24855733-24857850	0.118
9930021D14Rik	75	0	1.25006	30	0.5	1.93681	3.032203	Unclassified	chr17:24608828-24612414	1.587
Rpl7	75	0	1.25006	137	2.283333	228.634	5.152365	Stalled	chr1:16091375-16096514	3.14
1110012D08Rik	75	0	1.25006	14	0.233333	2.8843	8.851869	Stalled	chr10:128237091-128243426	4.336
Tom7	75	0	1.25006	30	0.5	35.7264	25.19121	Stalled	chr5:23344761-23351963	5.203
Dnttip2	75	0	1.25006	227	3.783333	17.3427	9.739997	Stalled	chr3:121975331-121988189	10.859
Tmem14a	75	0	1.25006	23	0.383333	6.87908	34.24897	Stalled	chr1:21206711-21220248	11.538
Pex5	75	0	1.25006	170	2.833333	8.19891	7.186715	Stalled	chr6:124346833-124367085	18.253
Bcat2	75	0	1.25006	263	4.383333	28.0948	13.3031	Stalled	chr7:52823732-52845078	19.347
Med17	75	0	1.25006	335	5.583333	8.94386	17.33846	Stalled	chr9:15064794-15086311	19.518
Xkr7	75	0	1.25006	38	0.633333	0.137098	0.376282	Unclassified	chr2:152855587-152881511	23.925
Ddx59	75	0	1.25006	103	1.716667	1.97138	62.30152	Stalled	chr1:138309847-138336728	24.882
Cdk11b	75	0	1.25006	398	6.633333	32.269	21.0964	Stalled	chr4:154996977-155024041	25.065
Gsn	75	0	1.25006	77	1.283333	15.611	1.446212	Unclassified	chr2:35135959-35163412	25.454
Atp6v1e1	75	0	1.25006	457	7.616667	18.8745	13.51022	Stalled	chr6:120745261-120774703	27.443
Gspt1	75	0	1.25006	573	9.55	18.2469	24.49762	Stalled	chr16:11216333-11256418	38.086
Ccdc62	75	0	1.25006	67	1.116667	0.944786	120.208	Stalled	chr5:124378697-124419904	39.208
Rfx2	75	0	1.25006	163	2.716667	0.926797	8.474004	Stalled	chr17:56915320-56972431	55.112
Phip	75	0	1.25006	2323	38.71667	10.3458	22.18921	Stalled	chr9:82759765-82871096	109.332
2310003F16Rik	74	0	1.233392	2	0.033333	176.454	31.20442	Unclassified	chr2:121280823-121284175	1.353
Alg3	74	0	1.233392	88	1.466667	13.7774	9.163436	Stalled	chr16:20605530-20612822	5.293
Serinc4	74	0	1.233392	146	2.433333	0.681706	5.453635	Stalled	chr2:121276913-121284500	5.588
Pomc	74	0	1.233392	215	3.583333	10.4592	0.021255	Stalled	chr12:3952950-3960618	5.669
Flad1	74	0	1.233392	71	1.183333	13.6937	7.654915	Stalled	chr3:89206594-89217785	9.192
Fads1	74	0	1.233392	203	3.383333	13.0589	8.716757	Stalled	chr19:10255377-10271360	13.984
Zfp113	74	0	1.233392	109	1.816667	0.966678	16.0089	Stalled	chr5:138580929-138598972	16.044
BC024814	74	0	1.233392	295	4.916667	6.80267	11.14708	Stalled	chr16:8468905-8490290	19.386
Sord	74	0	1.233392	52	0.866667	3.29435	9.411043	Stalled	chr2:122058574-122091073	30.5
Cbw1	74	0	1.233392	151	2.516667	6.48699	27.08561	Stalled	chr19:24994918-25038048	41.131
Acbd6	74	0	1.233392	501	8.35	43.4673	45.41215	Stalled	chr1:157403249-157534362	129.114
Dclk2	74	0	1.233392	426	7.1	3.93618	10.99039	Stalled	chr3:86590072-86726803	134.732
Ppp1r9a	74	0	1.233392	204	3.4	0.0644	1.684841	Unclassified	chr6:4851319-5115661	262.343
Cdh4	74	0	1.233392	609	10.15	0.060019	0.85623	Unclassified	chr2:179175182-179634080	456.899
Cryaa	73	0	1.216725	14	0.233333	0.043593	0.828616	Unclassified	chr17:31812889-31818669	3.781
Sbds	73	0	1.216725	391	6.516667	35.1708	5.592227	Stalled	chr5:130721601-130733332	9.732
Zfp748	73	0	1.216725	77	1.283333	3.29615	19.54144	Stalled	chr13:67639589-67656088	14.5
Ubxn4	73	0	1.216725	315	5.25	19.6261	28.7923	Stalled	chr1:130138757-130175954	35.198
Tgm3	73	0	1.216725	46	0.766667	0.015592	0.445963	Unclassified	chr2:129836109-129876135	38.027
Anks6	73	0	1.216725	62	1.033333	0.104638	1.18747	Unclassified	chr4:47028560-47072178	41.619
Sic37a3	73	0	1.216725	311	5.183333	1.98135	13.30789	Stalled	chr6:39284771-39329706	42.936
Pip5k1b	73	0	1.216725	1461	24.35	0.821809	7.554562	Stalled	chr19:24369285-24632317	261.033
Hist1h4k	72	0	1.200058	0	0	0	236	Unclassified	chr13:21842062-21844374	0.313
Hist1h2ag	72	0	1.200058	0	0	0	369	Unclassified	chr13:22134345-22136818	0.474
Hmgb1	72	0	1.200058	327	5.45	0	5.408208	Stalled	chr5:149858803-149866613	5.811
Magoos	72	0	1.200058	109	1.816667	48.8136	12.70819	Stalled	chr4:107550417-107560003	7.587
Dtymk	72	0	1.200058	262	4.366667	48.4975	6.889007	Stalled	chr1:95689152-95700511	9.36
C920016K16Rik	72	0	1.200058	85	1.416667	3.84046	10.22467	Stalled	chr17:33128083-33142402	12.32
Zc3h15	72	0	1.200058	245	4.083333	25.0216	24.37328	Stalled	chr2:83482734-83504773	20.04
Fastkd1	72	0	1.200058	75	1.25	1.5346	0.496753	Unclassified	chr2:69524880-69552663	25.784
Sp4	72	0	1.200058	212	3.533333	1.66572	93.24402	Stalled	chr12:119473405-119541913	66.509
Cox10	72	0	1.200058	897	14.95	8.23615	27.96646	Stalled	chr11:63777387-63894916	115.53
Bank1	72	57	1.200058	1671	27.85	13.4635	16.92183	Stalled	chr3:135716327-135991010	272.684
Hist1h2ae	71	31	1.18339	0	0	0	285	Unclassified	chr13:23662385-23665089	0.705
Nrp	71	0	1.18339	16	0.266667	0	3.479006	Unclassified	chr12:88783797-88786967	1.171
H2-Q7	71	0	1.18339	127	2.116667	183.744	3.680623	Stalled	chr17:35574160-35580588	4.429
1810035L17Rik	71	0	1.18339	157	2.616667	19.2363	11.48393	Stalled	chr12:88782845-88790873	6.029
Alkbh1	71	0	1.18339	873	14.55	53.0038	6.136263	Stalled	chr12:88769027-88786789	15.763
Dpy30	71	0	1.18339	132	2.2	32.458	42.19402	Stalled	chr17:74698813-74717734	16.922
Glt28d2	71	0	1.18339	28	0.466667	0.98059	11.94359	Stalled	chr3:85673767-85693440	17.674
Gsto2	71	0	1.18339	123	2.05	0.127672	26.01496	Stalled	chr19:47938283-47960795	20.513
Sag	71	0	1.18339	202	3.366667	0.179041	1.335505	Unclassified	chr1:89698254-89741732	41.479
Mapk1	71	0	1.18339	1048	17.46667	21.4474	20.37959	Stalled	chr16:16981474-17047546	64.073
Dlgap2	71	0	1.18339	683	11.38333	0.05815	2.618236	Unclassified	chr8:14093874-14847684	751.811
Ii1rap1	71	34	1.18339	258	4.3	0.023405	0	Unclassified	chrX:83992581-85362962	1368.382
Agpr	70	0	1.166723	36	0.6	5.79686	0.082236	Unclassified	chr8:108090597-108094198	1.602
Ctu1	70	0	1.166723	61	1.016667	3.3429	7.472566	Stalled	chr7:50925400-50933667	6.268
Cdk9	70	0	1.166723	271	4.516667	23.1943	3.793086	Stalled	chr2:32561301-32570304	7.004
Nfu1	70	0	1.166723	163	2.716667	33.524	21.17114	Stalled	chr6:86957829-86978450	18.622
Nudt13	70	0	1.166723	105	1.75	2.86486	3.277349	Stalled	chr14:21111911-21136797	22.887
Wars	70	0	1.166723	665	11.08333	17.655	2.031105	Elongating	chr12:110098239-110133421	33.183
Nuf2	70	0	1.166723	413	6.883333	9.83142	10.66068	Stalled	chr1:171428064-171463595	33.532
5730455O13Rik	70	0	1.166723	122	2.033333	9.34053	38.93447	Stalled	chr19:38262968-38300622	35.655
Bcno1	70	0	1.166723	80	1.333333	0.228177	0.630805	Unclassified	chr8:119617764-119657620	37.857
St7l	70	0	1.166723	142	2.366667	2.75597	109.0779	Stalled	chr3:104665998-104729757	61.76
Dpysl2	70	31	1.166723	559	9.316667	2.85932	30.203	Stalled	chr14:67421700-67489437	65.738
Cit	70	0	1.166723	1969	32.81667	6.57822	7.351633	Stalled	chr5:116293664-116456350	160.687
Hecw2	70	0	1.166723	554	9.233333	0.079106	1.645464	Unclassified	chr1:53863717-54253878	388.162
Rgs9bp	69	0	1.150055	4	0.066667	1.63951	3.497393	Unclassified	chr7:36364012-36372601	6.59
B230219D22Rik	69	0	1.150055	374	6.233333	10.1977	11.61921	Stalled	chr13:55792484-55804861	10.378
Mfap3	69	0	1.150055	254	4.233333	5.67741	12.03455	Stalled	chr11:57330166-57347319	15.154
Fam114a2	69	0	1.150055	235	3.916667	8.10768	29.0439	Stalled	chr11:57296493-57334146	35.654
Rbm25	69	0	1.150055	939	15.65	32.2802	19.0202	Stalled	chr12:84971183-85024073	50.891
Dync1i2	69	0	1.150055	176	2.933333	11.2925	12.88835	Stalled	chr2:71048069-71101351	51.283
Vrk1	69	0	1.150055	917	15.28333	12.4816	14.19667	Stalled	chr12:107246472-107315620	67.149
Papss1	69	0	1.150055	230	3.833333	7.8537	46.30155	Stalled	chr3:131225731-131306634	78.904
Rpl13	68	0	1.133388	322	5.366667	0	2.979141	Stalled	chr8:125624249-125629140	2.892

Synpo2l	68	0	1.133388	53	0.883333	1.44401	0.777468	Unclassified	chr14:21478639-21489528	8.89
Cyp2r1	68	0	1.133388	25	0.416667	0.575749	38.17079	Stalled	chr7:121693681-121708486	12.806
Zfp667	68	0	1.133388	66	1.1	1.12408	20.23324	Stalled	chr7:6236181-6259485	21.305
Slc2a5	68	0	1.133388	123	2.05	0.086932	0.649095	Unclassified	chr4:149491452-149518277	24.826
Wtap	68	0	1.133388	427	17.116667	10.5237	18.07417	Stalled	chr17:13159664-13187405	25.742
Jak2	68	0	1.133388	267	4.45	4.53002	26.6974	Stalled	chr19:29324317-29387570	61.254
Spaca4	67	0	1.11672	0	0	0.361532	110	Unclassified	chr7:52980477-52983186	0.71
Pcbp1	67	0	1.11672	52	0.866667	213.193	5.202772	Unclassified	chr6:86474490-86478159	1.67
Nanos3	67	0	1.11672	6	0.1	0.05267	0.931339	Unclassified	chr8:86697631-86702451	2.821
H2-D1	67	0	1.11672	394	6.566667	540.333	3.98416	Stalled	chr17:35398038-35404442	4.405
Ints5	67	0	1.11672	174	2.9	13.5766	5.903049	Stalled	chr19:8965476-8972379	4.904
Hsp90ab1	67	0	1.11672	809	13.48333	819.113	2.888978	Stalled	chr17:45704726-45712210	5.485
Cops8	67	0	1.11672	210	3.5	16.7492	10.34713	Stalled	chr1:92497999-92509916	9.918
Tbc1d10b	67	0	1.11672	212	3.533333	25.3696	3.426692	Stalled	chr7:134340973-134353982	11.01
Smarcd1	67	0	1.11672	205	3.416667	9.43294	8.738399	Stalled	chr15:99530717-99544426	11.71
Trcg1	67	0	1.11672	655	10.91667	0.071175	0.166025	Stalled	chr9:57082362-57097671	13.31
Ccrn4l	67	0	1.11672	249	4.15	4.75966	20.95128	Stalled	chr3:51026368-51055676	27.209
Uggt2	67	0	1.11672	178	2.966667	0.431179	0.778525	Unclassified	chr14:119384206-119500656	114.451
Ccl17	66	0	1.100053	4	0.066667	0.099932	0.382199	Unclassified	chr8:97332352-97335935	1.584
Neil1	66	0	1.100053	261	4.35	39.2331	1.085526	Elongating	chr9:56991062-56996841	3.78
Ccdc110	66	0	1.100053	8	0.133333	0.078089	4.635835	Unclassified	chr8:47018002-47029499	9.498
A130042E20Rik	66	0	1.100053	65	1.083333	1.50193	32.89463	Stalled	chr10:75922311-75933859	9.549
Cops2	66	0	1.100053	328	5.466667	12.6687	11.84325	Stalled	chr2:125656039-125686754	28.716
Pkd2l2	66	0	1.100053	190	3.166667	1.53892	20.37686	Stalled	chr18:34567076-34602440	33.365
Mcm3ap	66	0	1.100053	589	9.816667	9.80447	20.45448	Stalled	chr10:75929715-75978602	46.888
Spred1	66	0	1.100053	228	3.8	2.12453	31.15094	Stalled	chr2:116945185-117005072	57.888
Pten	66	0	1.100053	591	9.85	8.90476	34.99394	Stalled	chr19:32830066-32900650	68.585
Galk2	66	0	1.100053	1087	18.11667	16.2614	13.72904	Stalled	chr2:125682953-125810034	125.082
Nme3	65	0	1.083385	2	0.033333	17.0118	3.05865	Unclassified	chr17:25031444-25034472	1.029
Elov3	65	0	1.083385	12	0.2	0.522034	1.134149	Unclassified	chr19:46204388-46210184	3.797
Prrg2	65	0	1.083385	298	4.966667	5.22958	0.254115	Stalled	chr7:52308976-52319022	8.047
Cabp1	65	0	1.083385	45	0.75	0.249598	1.069931	Unclassified	chr5:115618699-115638130	17.432
Cacnb1	65	0	1.083385	120	2	3.29137	11.06932	Stalled	chr11:97864215-97885941	19.727
Xpo1	65	0	1.083385	1056	17.6	14.8142	11.20695	Stalled	chr11:23154040-23197597	41.558
Metap1l	65	0	1.083385	346	5.766667	8.70059	36.20471	Stalled	chr2:71289394-71363248	71.855
Atp13a3	65	0	1.083385	556	9.266667	4.83118	37.25005	Stalled	chr16:30312509-30390616	76.108
Cfdp1	65	0	1.083385	562	9.366667	58.4417	14.82101	Stalled	chr8:114292372-114380210	85.839
Pde8a	65	0	1.083385	931	15.51667	4.65174	9.620411	Stalled	chr7:88356689-88478508	119.82
Kcnj9	64	0	1.066718	50	0.833333	0.634502	0	Unclassified	chr1:174251163-174261394	8.232
Rbak	64	0	1.066718	56	0.933333	2.06253	11.88873	Stalled	chr5:143933867-143944422	8.556
Gpr114	64	0	1.066718	30	0.5	0.04102	0.382691	Unclassified	chr8:97445593-97467190	19.598
Arpp19	64	0	1.066718	365	6.083333	15.1428	12.90721	Stalled	chr9:74883420-74908120	22.701
4933411G11Rik	64	0	1.066718	20	0.333333	0.36524	49.79744	Stalled	chr5:143940695-143966747	24.053
Bzw2	64	0	1.066718	667	11.11667	25.5574	25.99977	Stalled	chr12:36818421-36885412	64.992
Snord32a	63	0	1.05005	0	0	0	150	Unclassified	chr7:52382752-52384833	0.082
Fadd	63	0	1.05005	67	1.116667	5.90955	15.68274	Stalled	chr7:151764227-151770341	4.115
Eno3	63	0	1.05005	197	3.283333	3.45638	0.619755	Stalled	chr11:70468714-70476015	5.302
2310046O06Rik	63	0	1.05005	155	2.583333	5.85957	7.298276	Stalled	chr9:57383334-57390994	5.661
Rcn3	63	0	1.05005	129	2.15	24.7293	1.874211	Elongating	chr7:52338283-52349583	9.301
Rhpn1	63	0	1.05005	32	0.533333	0.37947	0.666051	Unclassified	chr15:75532717-75544848	10.132
Zbtb37	63	8	1.05005	87	1.45	1.05932	19.51266	Stalled	chr1:162947886-162966390	16.505
Btf3l4	63	0	1.05005	144	2.4	3.74301	23.10452	Stalled	chr4:108486899-108508189	19.291
Snord34	62	0	1.033383	0	0	0	246	Unclassified	chr7:52381972-52384038	0.067
Car11	62	0	1.033383	129	2.15	0.872222	0.250678	Stalled	chr7:52953336-52960031	4.696
Dnajb5	62	0	1.033383	62	1.033333	5.68797	1.114046	Stalled	chr4:42963965-42971604	5.64
Ggnbp1	62	0	1.033383	20	0.333333	0.714353	3.74932	Unclassified	chr17:27164203-27173323	7.121
Sdad1	62	0	1.033383	680	11.33333	12.4372	6.848196	Stalled	chr5:92713035-92741050	26.016
Mtvr2	61	0	1.016715	8	0.133333	14.221	11.22145	Unclassified	chr19:5728087-5731666	1.58
Gsx2	61	0	1.016715	4	0.066667	0.731048	1.466566	Unclassified	chr5:75469625-75473918	2.294
Sub1	61	0	1.016715	930	15.5	64.7228	6.084118	Stalled	chr15:11911093-11927762	14.67
Hist1h3a	60	4	1.000048	0	0	0	326	Unclassified	chr13:23853721-23856255	0.535
Mbd6	60	0	1.000048	222	3.7	8.97951	2.808702	Stalled	chr10:126719011-126727827	6.817
Snord33	59	0	0.98338	0	0	0	245	Unclassified	chr7:52382233-52384315	0.083
Hist1h2bh	59	39	0.98338	0	0	0	274	Unclassified	chr13:23634840-23637221	0.382
Ankdd1b	59	0	0.98338	211	3.516667	0.245487	0.611573	Unclassified	chr13:97186088-97243115	55.028
Hspb6	58	0	0.966713	52	0.866667	2.95931	1.393233	Elongating	chr7:31336320-31340458	2.139
1700019N12Rik	58	0	0.966713	10	0.166667	2.50984	0.981599	Unclassified	chr19:6996915-7001870	2.956
Kazald1	58	0	0.966713	14	0.233333	1.24423	5.462605	Stalled	chr19:45148628-45153779	3.152
Six5	58	0	0.966713	14	0.233333	0.893953	12.34434	Stalled	chr7:19677892-19683694	3.803
Myl6b	58	0	0.966713	137	2.283333	7.36052	1.281079	Elongating	chr10:127931212-127937741	4.53
Lgi3	58	0	0.966713	7	0.116667	0.072545	0.96327	Unclassified	chr14:70928627-70938130	7.504
2210408I21Rik	58	36	0.966713	307	5.116667	0.893124	81.53776	Stalled	chr13:77272796-7752940	478.145
Hist1h4j	57	0	0.950046	0	0	0	255	Unclassified	chr13:21824964-21827276	0.313
Gjd3	57	0	0.950046	0	0	5.11386	17	Unclassified	chr11:98843493-98846330	0.838
Actg1	57	0	0.950046	168	2.8	115.742	5.320432	Stalled	chr11:120207003-120211798	2.796
Aftph	57	0	0.950046	586	9.766667	8.91944	19.08887	Stalled	chr11:20585087-20643487	56.401
B230120H23Rik	57	0	0.950046	1042	17.36667	3.57332	8.59303	Stalled	chr2:72121693-72280665	156.973
Dst	57	0	0.950046	440	7.333333	0.343205	11.25698	Stalled	chr1:34066669-34365497	296.829
Galr3	56	0	0.933378	9	0.15	0	0.55814	Unclassified	chr15:78870314-78873988	1.675
Fcgr3	56	0	0.933378	34	0.566667	2.6761	0.350955	Unclassified	chr1:172981299-172991534	8.236
C1cn2	56	0	0.933378	55	0.916667	1.12141	5.804941	Stalled	chr16:20703038-20718709	13.672
Map2k4	56	0	0.933378	557	9.283333	4.58893	21.89294	Stalled	chr11:65501745-65603799	100.055
Hist1h4b	55	0	0.916711	0	0	0	223	Unclassified	chr13:23846889-23849201	0.313
Amn	55	0	0.916711	43	0.716667	0.562853	0.912357	Unclassified	chr12:112507321-112514637	5.317
Pacsin3	55	0	0.916711	27	0.45	1.98526	2.433448	Unclassified	chr2:91094969-91104836	7.868
Pcgf5	55	0	0.916711	560	9.333333	9.61319	4.428502	Stalled	chr19:36451556-36530694	77.139

Hist1h2bj	54	0	0.900043	0	0	0	355	Unclassified	chr13:22133098-22135479	0.382
Hrc	54	0	0.900043	12	0.2	0.179323	1.655559	Unclassified	chr7:52588638-52594342	3.705
Tas1r2	54	0	0.900043	28	0.466667	0.046284	0.359898	Unclassified	chr4:139207452-139226194	16.743
Eapp	54	58	0.900043	166	2.766667	18.1469	27.63501	Stalled	chr12:55774453-55798852	22.4
Stim1	54	0	0.900043	655	10.91667	12.2345	27.35786	Stalled	chr7:109414337-109585369	169.033
Kcna3	53	0	0.883376	22	0.366667	16.628	3.079673	Unclassified	chr3:106837079-106841047	1.969
Fut7	53	0	0.883376	4	0.066667	0.328473	5.146165	Unclassified	chr2:25276803-25281891	3.089
Hpd	53	0	0.883376	19	0.316667	0.103433	0.684256	Unclassified	chr5:123621815-123634695	10.881
Usp1	53	0	0.883376	173	2.883333	19.5092	11.61668	Stalled	chr4:98588500-98602224	11.725
Kif22	53	0	0.883376	230	3.833333	24.8736	7.247453	Stalled	chr7:134171244-134187934	14.691
Tcea1	53	0	0.883376	228	3.8	10.3735	35.51381	Stalled	chr1:4845774-4887987	40.214
Mepce	52	0	0.866708	278	4.633333	24.4102	5.187582	Stalled	chr5:138223133-138229929	4.797
2510012J08Rik	52	0	0.866708	237	3.95	25.4268	3.958117	Stalled	chr10:80781847-80788996	5.15
Flot2	52	0	0.866708	135	2.25	7.42831	11.39935	Stalled	chr11:77849442-77873934	22.493
Csnk1e	52	0	0.866708	336	5.6	0.68802	2.584248	Elongating	chr15:79248281-79274487	24.207
Epha2	52	0	0.866708	191	3.183333	2.1582	4.105712	Stalled	chr4:140855154-140885293	28.14
Hist1h2bl	51	0	0.850041	0	0	0	261	Unclassified	chr13:21807631-21810012	0.382
Nrm	51	0	0.850041	117	1.95	13.9702	6.317778	Stalled	chr17:35996262-36002345	4.084
Plcb2	51	0	0.850041	202	3.366667	2.9392	7.900146	Stalled	chr2:118533252-118556174	20.923
Prkd2	51	38	0.850041	1071	17.85	36.4475	6.567038	Stalled	chr7:17426413-17455810	27.398
St6galnac3	51	0	0.850041	1039	17.31667	0.580519	8.021796	Stalled	chr3:152865472-153390097	522.626
Hist1h2ah	50	0	0.833373	0	0	0	246	Unclassified	chr13:22127034-22129421	0.388
Mtss1l	50	0	0.833373	57	0.95	0.152413	5.232988	Stalled	chr8:113243383-113265300	19.918
Bivm	50	0	0.833373	27	0.45	0.556096	21.55359	Stalled	chr1:44174812-44201616	24.805
Marcks	49	0	0.816706	272	4.533333	6.5734	1.134485	Elongating	chr10:36853048-36860732	5.685
Nr1h3	49	0	0.816706	48	0.8	0.694527	1.548512	Unclassified	chr2:91024218-91037192	10.975
Snord35b	48	0	0.800038	0	0	0	121	Unclassified	chr7:52378395-52380481	0.087
Tnnt1	48	0	0.800038	48	0.8	2.29081	0.53061	Unclassified	chr7:4456264-4469577	11.314
Tuba8	48	0	0.800038	43	0.716667	0.292428	1.49966	Unclassified	chr6:121158787-121176115	15.329
Epha4	48	0	0.800038	96	1.6	0.129621	0	Unclassified	chr1:77363759-77513663	147.905
Ntn5	47	0	0.783371	15	0.25	0.16285	3.029409	Unclassified	chr7:52937783-52949924	10.142
Hist1h2bb	46	0	0.766703	0	0	0	345	Unclassified	chr13:23836602-23839070	0.469
Foxj1	46	0	0.766703	13	0.216667	0.547281	5.261261	Stalled	chr11:116192019-116198668	4.65
Rnase6	45	0	0.750036	18	0.3	10.298	2.044875	Stalled	chr14:51746742-51750794	2.053
Ssbp4	45	0	0.750036	349	5.816667	24.0642	5.257159	Stalled	chr8:73121389-73134213	10.825
Atoh8	45	0	0.750036	108	1.8	2.59158	8.120461	Stalled	chr6:72156171-72187571	29.401
Rpph1	44	0	0.733368	0	0	9.39827	68	Unclassified	chr14:51425121-51427446	0.326
Gzmm	44	0	0.733368	110	1.833333	0.189355	6.504625	Stalled	chr10:79149764-79158005	6.242
Igfbp4	44	0	0.733368	23	0.383333	1.09801	5.599221	Stalled	chr11:98900573-98913957	11.385
Hnrnpa0	43	0	0.716701	91	1.516667	139.293	9.451175	Stalled	chr13:58227240-58231917	2.678
1500031L02Rik	43	0	0.716701	45	0.75	8.61768	16.51981	Stalled	chr16:32097887-32108140	8.254
Dars2	43	0	0.716701	403	6.716667	6.62658	9.673196	Stalled	chr1:162970743-163002763	30.021
Cry2	43	0	0.716701	628	10.46667	4.62615	14.85916	Stalled	chr2:92243803-92276226	30.424
1110034G24Rik	43	0	0.716701	194	3.233333	1.14214	1.648761	Unclassified	chr2:132514018-132576790	60.773
I134	43	0	0.716701	125	2.083333	0.05219	4.35983	Unclassified	chr8:113265729-113331803	64.075
Ints1	42	0	0.700034	561	9.35	18.5766	5.284987	Stalled	chr5:140227235-140253632	24.398
MI13	42	0	0.700034	972	16.2	2.82135	33.57821	Stalled	chr5:24777611-25006601	226.991
Slc37a4	41	0	0.683366	147	2.45	3.99481	0.603378	Stalled	chr9:44204258-44211048	4.791
Tmem38a	41	0	0.683366	59	0.983333	1.46735	7.170668	Stalled	chr8:75094001-75111183	15.183
Zfp384	41	0	0.683366	517	8.616667	8.50609	9.601295	Stalled	chr6:124957822-124987887	28.066
Fgf18	41	0	0.683366	70	1.166667	0.203238	7.610775	Stalled	chr11:33017430-33049400	29.971
Zmynd10	40	0	0.666699	64	1.066667	0.606617	0.988524	Elongating	chr9:107447640-107453650	4.011
Cnn2	40	0	0.666699	169	2.816667	117.296	5.144735	Stalled	chr10:79449344-79458145	6.802
Ng23	39	0	0.650031	8	0.133333	3.61439	2.072558	Stalled	chr17:35162921-35166961	2.041
6530418L21Rik	39	0	0.650031	103	1.716667	1.99422	4.512195	Stalled	chr3:105505516-105523759	16.244
S100a5	38	0	0.633364	13	0.216667	0.237339	1.332896	Unclassified	chr3:90410443-90415702	3.26
Emilin1	38	0	0.633364	56	0.933333	1.03216	0.311527	Unclassified	chr5:31214158-31223646	7.489
Ubpap2l	38	0	0.633364	749	12.483333	36.034	19.88994	Stalled	chr3:89803510-89858397	52.888
Tir6	37	0	0.616696	24	0.4	2.22381	4.166895	Stalled	chr5:65344333-65353273	6.941
Kctd17	37	0	0.616696	87	1.45	5.55998	1.101058	Stalled	chr15:78257057-78269733	10.677
Ppp1r13l	37	0	0.616696	55	0.916667	0.724757	2.974621	Unclassified	chr7:19944564-19963882	17.319
Gm5774	35	0	0.583361	0	0	33.246	108	Unclassified	chr7:106631294-106633442	0.149
Tmc4	35	0	0.583361	115	1.916667	0	2.489877	Elongating	chr7:3617355-3631155	11.801
Snf8	35	0	0.583361	334	5.566667	45.8709	6.21908	Stalled	chr11:95894230-95908719	12.49
Ankrd13b	35	0	0.583361	63	1.05	1.2869	2.912924	Unclassified	chr11:77283988-77305180	19.193
Ccdc96	34	0	0.566694	30	0.5	2.03085	6.346478	Stalled	chr5:36825236-36830820	3.585
Faim3	34	0	0.566694	83	1.383333	6.90147	4.62279	Stalled	chr1:132760353-132777367	15.015
BC055111	34	0	0.566694	75	1.25	0.078069	0.252474	Unclassified	chr4:106263513-106291843	26.331
Cramp1l	34	0	0.566694	765	12.75	3.4147	6.479904	Stalled	chr17:25098170-25154175	54.006
Ino80b	33	0	0.550026	58	0.966667	22.0098	2.671279	Stalled	chr6:83071821-83077023	3.203
Aanat	33	0	0.550026	54	0.9	0.063187	0.682914	Stalled	chr11:116453000-116458993	3.994
Mcoln1	33	0	0.550026	80	1.333333	6.18979	26.48733	Stalled	chr8:3498518-3515231	14.714
Acvrl1	33	0	0.550026	75	1.25	0.787934	0.522054	Unclassified	chr15:100956967-100975767	16.801
Rln3	32	0	0.533359	4	0.066667	0.404726	0.371998	Unclassified	chr8:86566965-86570878	1.914
Oscar	32	0	0.533359	11	0.183333	0.098533	0	Unclassified	chr7:3561416-3569735	6.32
Adamts15	32	0	0.533359	29	0.483333	1.02519	1.695623	Unclassified	chr10:79803460-79813191	7.732
Neur13	32	0	0.533359	231	3.85	17.7781	2.948812	Stalled	chr1:36321446-36332270	8.825
Ppp3ca	31	0	0.516691	1607	26.78333	9.49071	9.595212	Stalled	chr3:136331733-136598743	265.011
Tigd5	30	0	0.500024	62	1.033333	1.01181	10.62877	Stalled	chr15:75738164-75744964	4.801
4933400C05Rik	30	0	0.500024	16	0.266667	0.149831	27.58229	Stalled	chr11:103069440-103081746	10.307
Nxf1	30	0	0.500024	230	3.833333	31.9292	21.15411	Stalled	chr19:8829592-8845400	13.809
Sec14l2	30	0	0.500024	122	2.033333	1.67766	0.725028	Unclassified	chr11:3997042-4020732	21.691
1700001P01Rik	29	0	0.483356	35	0.583333	0.102695	21.82981	Stalled	chr11:97632794-97639232	4.439
Scarf1	29	0	0.483356	56	0.933333	0.182202	2.654502	Unclassified	chr11:75325042-75340082	13.041
Tekt2	28	0	0.466689	5	0.083333	0.145835	0.587571	Unclassified	chr4:125999364-126004443	3.08
Madcam1	28	0	0.466689	14	0.233333	0.71252	2.096675	Unclassified	chr10:79125318-79131281	3.964

Ccdc9	28	0	0.466689	488	8.133333	22.3792	6.185133	Stalled	chr7:16859392-16874144	12.753
Ii12rb1	28	0	0.466689	214	3.566667	6.59832	2.384855	Elongating	chr8:73330347-73345322	12.976
1600016N20Rik	27	0	0.450022	14	0.233333	1.96819	1.070133	Unclassified	chr7:148395941-148401979	4.039
Zscan2	26	0	0.433354	121	2.016667	0.975054	0.299248	Stalled	chr7:88004993-88021399	14.407
P2rx3	26	0	0.433354	187	3.116667	0.553471	4.928162	Stalled	chr2:84836708-84877991	39.284
Tmem88	25	0	0.416687	63	1.05	0.795382	1.412429	Unclassified	chr11:69210017-69213736	1.72
Cidnd2	24	0	0.400019	17	0.283333	0.249669	0.162758	Unclassified	chr7:50694185-50698690	2.506
Cenpc1	24	0	0.400019	296	4.933333	6.97924	26.53936	Stalled	chr5:86441049-86496608	53.56
Aspdh	23	0	0.383352	16	0.266667	0.225546	0.076106	Unclassified	chr7:51718804-51723121	2.318
Aldoc	23	0	0.383352	14	0.233333	36.4263	1.306348	Unclassified	chr11:78135699-78140262	2.564
Cisd3	23	0	0.383352	31	0.516667	11.6586	8.099464	Stalled	chr11:97545265-97549939	2.675
Zbtb22	23	0	0.383352	121	2.016667	13.9401	3.336075	Stalled	chr17:34051120-34056270	3.151
Zfp238	23	0	0.383352	239	3.983333	10.5622	1.799219	Elongating	chr1:179372791-179380897	6.107
Cyb5r2	23	0	0.383352	18	0.3	0.100128	1.931131	Unclassified	chr7:114891968-114903510	9.543
Hist1h3i	22	0	0.366684	0	0	0	231	Unclassified	chr13:21874783-21877266	0.484
Fam134a	22	0	0.366684	50	0.833333	16.7489	18.21478	Stalled	chr1:75137359-75144483	5.125
Ufc1	22	0	0.366684	72	1.2	35.3629	11.69129	Stalled	chr1:173218694-173227113	6.42
Atp9b	22	0	0.366684	1310	21.83333	10.4682	25.60154	Stalled	chr18:80931815-81132797	198.983
Gm15698	21	1	0.350017	2	0.033333	0.06041	0.769988	Unclassified	chr11:88825980-88830231	2.252
Nudt22	21	0	0.350017	33	0.55	8.24126	2.941748	Stalled	chr19:7067508-7072527	3.02
Scn4b	21	0	0.350017	30	0.5	0.096636	0.637014	Unclassified	chr9:44945124-44962144	15.021
Mrps18a	21	0	0.350017	365	6.083333	27.8388	11.5538	Stalled	chr17:46245952-46265857	17.906
Sec23a	21	0	0.350017	188	3.133333	3.33468	36.74727	Stalled	chr12:60059370-60115004	53.635
Ffar1	20	0	0.333349	0	0	11.8078	57	Unclassified	chr7:31645586-31648489	0.904
Grifin	20	0	0.333349	2	0.033333	0.214002	0.916667	Unclassified	chr5:141039142-141043021	1.88
Pfdn5	20	0	0.333349	66	1.1	67.3217	7.646536	Stalled	chr15:102154546-102161920	5.375
Eps8l1	20	0	0.333349	86	1.433333	2.67103	0.94987	Unclassified	chr7:4414343-4430844	14.502
Degs2	19	0	0.316682	49	0.816667	0.071543	0.553507	Unclassified	chr12:109928431-109942516	12.086
Hgs	19	0	0.316682	292	4.866667	13.5552	16.03272	Stalled	chr11:120326948-120345298	16.351
Traip	19	0	0.316682	359	5.983333	7.85741	6.370916	Stalled	chr9:107851293-107874599	21.307
Chaf1b	19	0	0.316682	268	4.466667	12.7063	10.7059	Stalled	chr16:93882145-93906351	22.207
B3gnt1	18	0	0.300014	14	0.233333	9.11698	9.754409	Stalled	chr19:5036825-5041134	2.31
38777	18	0	0.300014	193	3.216667	3.71881	14.63318	Stalled	chr17:33822656-33857615	32.96
Ii18bp	17	0	0.283347	67	1.116667	0.850156	0.81297	Elongating	chr7:109163590-109168669	3.08
Tmem69	17	44	0.283347	55	0.916667	2.01056	5.205899	Stalled	chr4:116224132-116230548	4.417
Gapdh	17	0	0.283347	118	1.966667	2.94013	0.267919	Stalled	chr7:31514905-31526375	9.471
Secm1a	17	0	0.283347	11	0.183333	0.039679	1.073216	Unclassified	chr11:120928716-120944453	13.738
Chchd6	17	0	0.283347	449	7.483333	6.7373	12.80881	Stalled	chr6:89333139-89547646	212.508
Slc4a2	16	0	0.266679	221	3.683333	8.95138	6.805419	Stalled	chr5:23929049-23946765	15.717
Eif6	15	0	0.250012	242	4.033333	83.5801	5.719578	Stalled	chr2:155645572-155654661	7.09
Kif23	15	0	0.250012	302	5.033333	11.7531	16.82675	Stalled	chr9:61765086-61796606	29.521
Slc9a3	15	0	0.250012	64	1.066667	0.066913	3.644401	Unclassified	chr13:74256962-74303512	44.551
H2-Ea	14	85	0.233345	60	1	1.20989	0.186864	Stalled	chr17:34479156-34483590	2.435
Slc25a34	14	0	0.233345	41	0.683333	0.656925	4.722912	Stalled	chr4:141174739-141181749	5.011
Tbx10	14	0	0.233345	38	0.633333	0.064875	0.395	Unclassified	chr19:3990751-3999512	6.762
Sec16a	14	0	0.233345	616	10.26667	9.69368	13.04271	Stalled	chr2:26264950-26302736	35.787
Rnu73b	13	0	0.216677	0	0	0	77	Unclassified	chr3:85944538-85946609	0.072
Eif3g	13	0	0.216677	294	4.9	97.4645	2.422079	Stalled	chr9:20698792-20705034	4.243
Klhdc3	12	0	0.20001	163	2.716667	31.3742	7.187803	Stalled	chr17:46811501-46819879	6.379
Hk3	12	0	0.20001	88	1.466667	0.248876	0.420616	Unclassified	chr13:55107346-55124695	15.35
Gh	11	0	0.183342	5	0.083333	8.74771	1.079365	Unclassified	chr11:106161581-106165124	1.544
Jsrp1	11	0	0.183342	31	0.516667	0.328872	0.570922	Unclassified	chr10:80271245-80278240	4.996
Hsd17b14	11	0	0.183342	13	0.216667	0.122805	1.445521	Unclassified	chr7:52815566-52822691	5.126
Rpl3l	10	0	0.166675	21	0.35	0.172614	0.420353	Unclassified	chr17:24867629-24873094	3.466
Fhl3	10	0	0.166675	259	4.316667	12.491	4.984434	Stalled	chr4:124375953-124385855	7.903
Ndufab1	10	0	0.166675	316	5.266667	15.4164	5.141001	Stalled	chr7:129231557-129247362	13.806
Atp6v0c	9	0	0.150007	218	3.633333	44.1652	6.062968	Stalled	chr17:24300832-24308374	5.543
Fam46a	9	0	0.150007	18	0.3	1.74034	29.87045	Stalled	chr9:85214046-85222757	6.712
Xpa	9	0	0.150007	353	5.883333	17.9932	11.52393	Stalled	chr4:46188093-46211183	21.091
Cyhr1	8	0	0.13334	213	3.55	14.7485	2.358014	Elongating	chr15:76476196-76492538	14.343
Leprel2	8	0	0.13334	31	0.516667	0.444739	2.677426	Unclassified	chr6:124791112-124809705	16.594
Hist1h2bk	7	0	0.116672	0	0	0	262	Unclassified	chr13:22125755-22128136	0.382
Hist1h2ai	7	0	0.116672	0	0	0	262	Unclassified	chr13:21806290-21808683	0.394
Rpl36	7	0	0.116672	0	0	143.478	380	Unclassified	chr17:56750817-56753669	0.853
Trim56	7	0	0.116672	212	3.533333	8.86704	2.289233	Elongating	chr5:137587155-137594077	4.923
Sec1	6	0	0.100005	3	0.05	0.236109	3.831913	Unclassified	chr7:52933056-52936928	1.873
Gal	6	0	0.100005	7	0.116667	0.366705	1.007968	Unclassified	chr19:3409916-3416457	4.542
170001O22Rik	6	0	0.100005	13	0.216667	1.17011	2.832727	Unclassified	chr2:30651090-30659227	6.138
Slc4a3	6	0	0.100005	32	0.533333	0.178846	1.377386	Unclassified	chr1:75540840-75556006	13.167
Olfir523	5	0	0.083337	0	0	0.080606	0	Unclassified	chr7:147360002-147362956	0.955
Slc39a7	5	0	0.083337	167	2.783333	78.0435	6.830132	Stalled	chr17:34165210-34170635	3.426
2310036O22Rik	5	0	0.083337	109	1.816667	112.295	7.577228	Stalled	chr8:87548731-87554185	3.455
Spata24	5	0	0.083337	81	1.35	23.3053	4.735845	Stalled	chr18:35816342-35823840	5.499
Rela	5	0	0.083337	422	7.033333	26.1021	10.90092	Stalled	chr19:5635489-5648130	10.642
Pitx3	5	0	0.083337	40	0.666667	2.59843	0.450843	Unclassified	chr19:46210175-46224815	12.641
Kif16b	5	0	0.083337	884	14.73333	2.65003	22.98346	Stalled	chr2:142444080-142729200	283.121
Muc1	4	0	0.06667	122	2.033333	0.665028	0.715079	Stalled	chr3:89030973-89037291	4.319
Samd10	2	0	0.033335	35	0.583333	3.45692	4.789349	Stalled	chr2:181329923-181335852	3.93
Birc2	2	0	0.033335	327	5.45	38.3439	0.2804	Stalled	chr9:7818225-7837255	17.031
Mmp28	2	0	0.033335	36	0.6	0.654906	1.7907	Unclassified	chr11:83255377-83278463	21.087
Dock3	2	0	0.033335	355	5.916667	0.486345	6.341375	Unclassified	chr9:106795155-107136240	339.086
Doc2g	1	0	0.016667	97	1.166667	3.28359	0.973821	Elongating	chr19:4001384-4007005	3.622
Tsku	1	0	0.016667	24	0.4	0.244614	3.43367	Unclassified	chr7:105499179-105511798	10.62
Fam65a	1	0	0.016667	412	6.866667	4.75345	3.287938	Stalled	chr8:108127128-108146118	16.991
Mapk8ip1	1	0	0.016667	162	2.7	0.743609	0.83582	Stalled	chr2:92223836-92243420	17.585
Vstm2l	1	0	0.016667	42	0.7	0.272688	1.636067	Unclassified	chr2:157738388-157770455	30.068

Rnf38	0	0	0	535	8.916667	3.29263	51.87833	Stalled	chr4:44139083-44182410	41.328
H2-Q6	0	0	0	413	6.883333	202.449	3.641012	Unclassified	chr17:35559821-35565306	3.486
Nipsnap3a	0	0	0	9	0.15	0.069971	0.569244	Unclassified	chr4:53000155-53013726	11.572
Morn2	0	0	0	109	1.816667	2.77091	41.27987	Stalled	chr17:80687551-80696814	7.264
Pram1	0	0	0	501	8.35	0.186481	0.459217	Unclassified	chr17:33773000-33782645	7.646
Cog3	0	0	0	769	12.81667	5.82465	15.79689	Unclassified	chr14:76102157-76156300	52.144
Als2cr11	0	0	0	40	0.666667	0	1.066293	Unclassified	chr1:59107349-59153744	44.396
Svopl	0	0	0	110	1.833333	0.150072	0.731345	Unclassified	chr6:37933738-37998996	63.259
Ms4a13	0	0	0	31	0.516667	0.055926	1.453238	Unclassified	chr19:11243907-11273213	27.307
Adora2b	0	0	0	66	1.1	1.40376	2.645976	Unclassified	chr11:62060485-62079954	17.47
Yrdc	0	0	0	669	11.15	13.1357	11.43942	Unclassified	chr4:124526002-124532485	4.484
Gbx2	0	0	0	7	0.116667	0.18688	0.849693	Unclassified	chr1:91824536-91829751	3.216
Olfr1288	0	0	0	0	0	0	0	Unclassified	chr2:111316942-111319881	0.94
Adra1b	0	0	0	64	1.066667	0.193369	1.496648	Unclassified	chr11:43588107-43651834	61.728
Adra1a	0	0	0	100	1.666667	0.049568	1.524124	Unclassified	chr14:67252094-67352166	98.073
Olfr1277	0	0	0	0	0	0	0	Unclassified	chr2:111109610-111112522	0.913
Olfr1276	0	0	0	1	0.016667	0	1	Unclassified	chr2:111095273-111098212	0.94
Olfr1325	0	0	0	0	0	0	0	Unclassified	chrX:71837666-71840614	0.949
Olfr190	0	0	0	1	0.016667	0.023642	0	Unclassified	chr16:59073980-59076904	0.925
Pcyt1b	0	0	0	91	1.516667	0.62833	1.033429	Unclassified	chrX:90898201-90995287	95.087
Defb8	0	0	0	1	0.016667	0	0	Unclassified	chr8:19445769-19449606	1.838
Olfr39	0	0	0	1	0.016667	0	0	Unclassified	chr9:20084794-20091092	4.299
Awat1	0	0	0	3	0.05	0.055124	2	Unclassified	chrX:97765585-97773545	5.961
Awat2	0	0	0	7	0.116667	0.096545	0.651374	Unclassified	chrX:97597560-97609901	10.342
Nlgn3	0	0	0	79	1.316667	0.175113	11.84922	Stalled	chrX:98492519-98516687	22.169
Dync21i1	0	0	0	57	0.95	0.888279	6.095603	Unclassified	chr17:85023838-85054904	29.067
Rest	0	0	0	516	8.6	3.23842	5.424924	Unclassified	chr5:77692518-77712722	18.205
Tet2	0	0	0	837	13.95	2.67782	17.317	Unclassified	chr3:133126640-133209354	80.715
Upk1b	0	0	0	42	0.7	0	0.800388	Unclassified	chr16:38773296-38802316	27.021
Cd244	0	0	0	60	1	0.361393	0.302256	Unclassified	chr1:173487323-173515447	26.125
Slc2a10	0	0	0	23	0.383333	0.04595	1.760424	Unclassified	chr2:165327477-165345411	15.935
Wdr17	0	0	0	41	0.683333	0.021712	0	Unclassified	chr8:55714995-55806032	89.038
Adam29	0	0	0	9	0.15	0.028209	0.814187	Unclassified	chr8:58349708-58387761	36.054
Klrc1	0	0	0	1	0.016667	0.020908	1	Unclassified	chr6:129624876-129630928	4.053
Camk1g	0	0	0	77	1.283333	0.088821	0.724831	Unclassified	chr1:195172539-195198476	23.938
Kif19a	0	0	0	105	1.75	1.5716	4.738851	Unclassified	chr11:114624702-114651889	25.188
Als2	0	0	0	401	6.683333	2.90172	25.69654	Stalled	chr1:59219599-59295937	74.339
Gm428	0	0	0	0	0	0	0	Unclassified	chr4:73327417-73333463	4.047
Slc25a27	0	0	0	43	0.716667	0.58668	3.377909	Unclassified	chr17:43778848-43805964	25.117
Pri3c1	0	0	0	1	0.016667	0	0	Unclassified	chr13:27286528-27295616	7.089
Tcl1b3	0	0	0	4	0.066667	0.029495	0.528005	Unclassified	chr12:106427254-106433609	4.356
Tcl1b1	0	0	0	3	0.05	0.03526	0	Unclassified	chr12:106395913-106404835	6.923
Adam39	0	0	0	0	0	0.022082	0	Unclassified	chr8:41906362-41912215	3.854
Chrna10	0	0	0	53	0.883333	0.0459	4.926569	Unclassified	chr7:109259779-109267227	5.449
Cyp26b1	0	0	0	37	0.616667	0.101741	0	Unclassified	chr6:84521937-84545740	21.804
Dyrk1b	0	0	0	564	9.4	2.25602	7.113288	Unclassified	chr7:28962501-28972313	7.813
Zdhhc7	0	0	0	517	8.616667	13.0782	11.29631	Unclassified	chr8:122604994-122627372	20.379
Epha10	0	0	0	16	0.266667	0.093323	0.635394	Unclassified	chr4:124557028-124563752	4.725
Olfr1295	0	0	0	1	0.016667	0	0	Unclassified	chr2:111404660-111407599	0.94
Ifit3	0	65.86076	0	10	0.166667	0.730248	1.884717	Unclassified	chr19:34656018-34663472	5.455
Fev	0	0	0	13	0.216667	0.337956	2.101869	Unclassified	chr1:74928082-74933982	3.901
Adprh	0	0	0	544	9.066667	73.8693	19.54037	Unclassified	chr16:38445478-38454769	7.292
Psmc8	0	0	0	674	11.23333	82.755	3.750858	Unclassified	chr7:29959205-29967692	6.488
Clec7a	0	0	0	6	0.1	0.073172	0	Unclassified	chr6:129411608-129424795	11.188
Npy5r	0	0	0	9	0.15	0	1.175666	Unclassified	chr8:69203863-69213993	8.131
Prrt1	0	0	0	16	0.266667	0.473133	0.183769	Unclassified	chr17:34764630-34769205	2.576
Trim61	0	0	0	8	0.133333	0	0.395405	Unclassified	chr8:67536888-67544465	5.578
Trnc6a	0	0	0	1175	19.58333	11.3293	15.53932	Unclassified	chr7:130265398-130338810	71.413
Ktn1	0	0	0	586	9.766667	8.33007	1.798594	Unclassified	chr14:48281430-48356239	72.81
Slc5a11	0	0	0	100	1.666667	0.076646	1.122396	Unclassified	chr7:130356379-130416765	58.387
Krtap9-1	0	0	0	1	0.016667	0.030199	1	Unclassified	chr11:99732702-99735313	0.612
Krtap8-2	0	0	0	2	0.033333	0	1	Unclassified	chr16:88896212-88898694	0.483
Krtap6-1	0	0	0	0	0	0	0	Unclassified	chr16:89029943-89032537	0.595
Usp32	0	0	0	630	10.5	2.29956	55.66258	Stalled	chr11:84797989-84955457	155.469
Dnalc1	0	0	0	101	1.683333	0.2671	3.802346	Unclassified	chr12:85453277-85484460	29.184
Olfr618	0	0	0	0	0	0.026812	0	Unclassified	chr7:110743831-110746787	0.957
Fam84a	0	0	0	5	0.083333	0.060669	0.534306	Unclassified	chr12:14154403-14160844	4.442
Olfr1351	0	0	0	3	0.05	0.02001	0	Unclassified	chr10:78478068-78481028	0.961
Bag1	0	0	0	368	6.133333	64.9255	23.41682	Unclassified	chr4:40883430-40897314	11.885
Olfr1414	0	0	0	2	0.033333	0.053724	1	Unclassified	chr1:94407664-94410603	0.94
Olfr679	0	0	0	0	0	0.020231	0	Unclassified	chr7:112232231-112235179	0.949
Olfr1353	0	0	0	1	0.016667	0	0	Unclassified	chr10:78430395-78433325	0.931
Olfr669	0	0	0	2	0.033333	0.026869	1	Unclassified	chr7:112085041-112087995	0.955
Rbm24	0	0	0	15	0.25	0.512812	0	Unclassified	chr13:46511668-46526468	12.801
Mapkbp1	0	0	0	411	6.85	3.21819	17.50383	Unclassified	chr2:119796434-119853138	54.705
Ifi203	0	0	0	130	2.166667	9.65576	3.569244	Unclassified	chr1:175850533-175874623	22.091
Slc46a1	0	0	0	97	1.616667	2.87081	22.20267	Stalled	chr11:78277202-78285446	6.245
Mecp2	0	0	0	683	11.38333	3.27768	19.8262	Unclassified	chrX:71272160-71332932	58.773
Gm6460	0	0	0	0	0	0	0	Unclassified	chr5:11592955-11599480	4.526
Nrp1	0	0	0	139	2.316667	0.196954	1.578158	Unclassified	chr8:130880972-131029373	146.402
Gm10922	0	0	0	0	0	0	0	Unclassified	chrX:3993613-3997573	1.961
Hyal5	0	0	0	9	0.15	0	0	Unclassified	chr6:24805996-24841958	33.963
Map3k6	0	0	0	125	2.083333	0.632814	9.794396	Unclassified	chr4:132794732-132808843	12.112
Ldhc	0	0	0	37	0.616667	0.088051	0.636755	Unclassified	chr7:54114632-54133512	16.881
Nrg3	0	0	0	412	6.866667	0.060645	0.728794	Unclassified	chr14:39183612-40288376	1102.765
Prss1	0	0	0	0	0	0.022414	0	Unclassified	chr6:41406928-41413785	4.858

Efemp2	0	0	0	90	1.5	0.306679	0.286238	Unclassified	chr19:5472689-5481854	7.166
C330021F23Rik	0	0	0	17	0.283333	34.1561	0.568035	Unclassified	chr8:3565997-3584776	16.78
Gpr85	0	0	0	10	0.166667	1.00735	0	Unclassified	chr6:13785073-13791848	4.776
Dip2a	0	0	0	340	5.666667	1.39917	24.3737	Stalled	chr10:75725793-75810007	82.215
Slc5a4a	0	0	0	42	0.7	0.049878	0.498876	Unclassified	chr10:75608195-75652010	41.816
Zfp280b	0	0	0	1298	21.633333	25.256	4.1825	Unclassified	chr10:75493356-75505714	10.359
Slc5a4b	0	0	0	40	0.666667	0.039053	0	Unclassified	chr10:75521365-75575763	52.399
Slc35e1	0	0	0	816	13.6	8.19414	6.364693	Unclassified	chr8:75001893-75018513	14.621
Olfir959	0	0	0	1	0.016667	0	1	Unclassified	chr9:39379906-39382842	0.937
Sh3bgrl2	0	0	0	154	2.566667	0.582015	11.9746	Stalled	chr9:83439944-83493898	51.955
BC066135	0	0	0	21	0.35	0	1.193731	Unclassified	chr2:180012350-180026584	12.235
Rhod1	0	0	0	379	6.316667	5.39679	2.924104	Elongating	chr8:107853061-107873870	18.81
Tlr2	0	0	0	57	0.95	2.57611	5.881913	Unclassified	chr3:83640193-83647530	5.338
Gm16515	0	0	0	173	2.883333	3.71896	9.908769	Unclassified	chr11:60715747-60729294	11.548
Ssxb5	0	0	0	0	0	0.01062	0	Unclassified	chrX:8378816-8386512	5.697
Tlk2	0	0	0	1382	23.033333	3.90252	28.95426	Unclassified	chr11:105040843-105145270	102.428
AY026312	0	0	0	3	0.05	0	3	Unclassified	chr16:88932048-88934509	0.462
Nr1h2	0	0	0	225	3.75	22.7104	4.208989	Unclassified	chr7:51805002-51811293	4.292
Rpl39l	0	0	0	4	0.066667	0	0	Unclassified	chr16:10168320-10175004	4.685
Kif27	0	0	0	89	1.483333	0.014362	0	Unclassified	chr13:58388876-58458223	67.348
4930578N16Rik	0	0	0	264	4.4	1.31791	41.98058	Stalled	chr2:69596113-69629543	31.431
Ptplad2	0	0	0	176	2.933333	0.036641	1.336806	Unclassified	chr4:88058833-88086830	25.998
Grid2ip	0	0	0	76	1.266667	0.202761	0.308514	Unclassified	chr5:144117016-144153477	34.462
Tmem215	0	0	0	5	0.083333	0.062507	0	Unclassified	chr4:40417212-40422686	3.475
Lmod3	0	0	0	27	0.45	0.100031	0.731174	Unclassified	chr6:97188521-97204774	14.254
Uox	0	0	0	36	0.6	0.076495	1.020448	Unclassified	chr3:146258112-146294447	34.336
Lmbrd2	0	0	0	296	4.933333	2.04898	34.38779	Stalled	chr15:9068325-9127206	56.882
Cachd1	0	0	0	191	3.183333	0.139249	1.094587	Unclassified	chr4:100447283-100676353	227.071
Prap1	0	0	0	20	0.333333	0.20605	0.149343	Unclassified	chr7:147277294-147283102	3.809
Gyk1l	0	0	0	2	0.033333	0.03364	1	Unclassified	chr18:52851343-52855247	1.905
Gk2	0	0	0	2	0.033333	0.093425	0.459167	Unclassified	chr5:97884179-97888027	1.849
Gjb3	0	0	0	13	0.216667	0.054829	0.945346	Unclassified	chr4:127002480-127010080	5.601
Gjb4	0	0	0	4	0.066667	0	0	Unclassified	chr4:127028329-127033325	2.997
Gjb5	0	0	0	8	0.133333	0.015043	1.319955	Unclassified	chr4:127032052-127037408	3.357
Lrrc34	0	0	0	30	0.5	0.125377	0	Unclassified	chr3:30523188-30548740	23.553
1700001F09Rik	0	0	0	1	0.016667	0	0	Unclassified	chr14:44020916-44028344	5.429
1700006A11Rik	0	0	0	12	0.2	0.025852	0	Unclassified	chr3:124104072-124130946	24.875
Ostm1	0	0	0	362	6.033333	7.9379	20.31042	Unclassified	chr10:42396722-42422261	23.54
Gclc	0	0	0	782	13.033333	12.0123	15.85482	Unclassified	chr9:77600616-77641458	38.843
Fam98b	0	0	0	307	5.116667	19.4556	12.21812	Unclassified	chr2:117073474-117097276	21.803
Wdr34	0	0	0	360	6	3.87318	10.63938	Unclassified	chr2:29887077-29906399	17.323
Shroom4	0	0	0	51	0.85	0.037627	2.486766	Unclassified	chrX:5975262-6210835	233.574
Trem3	0	0	0	13	0.216667	0.180512	0.461038	Unclassified	chr17:48384943-48398207	11.265
9530077C05Rik	0	0	0	156	2.6	3.58798	10.23841	Stalled	chr9:22214020-22249123	33.104
Stard8	0	0	0	45	0.75	0.480418	9.106349	Unclassified	chrX:96235919-96270066	32.148
Srrm3	0	0	0	105	1.75	0.459588	0.350846	Unclassified	chr5:136291975-136350642	56.668
Cst10	0	0	0	5	0.083333	0	2.00514	Unclassified	chr2:149228984-149236014	5.031
Trem1	0	0	0	23	0.383333	0.115155	0.385444	Unclassified	chr17:48369921-48386091	14.171
Gnas	0	0	0	1690	28.16667	266.506	3.971804	Unclassified	chr2:174151414-174172243	18.83
Wbscr28	0	0	0	18	0.3	0	0.37169	Unclassified	chr5:135377463-135384603	5.141
4930529F22Rik	0	0	0	2	0.033333	0.003054	0	Unclassified	chr8:41876626-41882657	4.032
Nox1	0	0	0	49	0.816667	0.045448	0	Unclassified	chrX:130621684-130648247	24.564
Acadl	0	0	0	362	6.033333	17.4535	28.77689	Stalled	chr1:66877426-66911841	32.416
Cybb	0	0	0	828	13.8	25.747	1.298493	Elongating	chrX:9012377-9048450	34.074
Cxadr	0	0	0	229	3.816667	0.788868	1.861179	Unclassified	chr16:78299935-78360030	58.096
Slc35d2	0	0	0	366	6.1	3.49627	26.73543	Stalled	chr13:64197617-64232638	33.022
Col25a1	0	0	0	266	4.433333	0.675432	0.613643	Unclassified	chr3:129881795-130299335	415.541
Cyb561	0	0	0	26	0.433333	0.202036	3.340735	Unclassified	chr11:105795017-105807461	10.445
Pnma1	0	0	0	130	2.166667	2.33043	4.122616	Unclassified	chr12:85487080-85491439	2.36
Rragc	0	0	0	375	6.25	14.6558	27.19378	Unclassified	chr4:123592675-123614240	19.566
Olfir338	0	0	0	3	0.05	0.008586	0	Unclassified	chr2:36230297-36233218	0.922
Piga	0	0	0	204	3.4	3.11362	14.42425	Stalled	chrX:160855718-160871847	14.13
Pik3ca	0	0	0	265	4.416667	3.39087	1.581895	Unclassified	chr3:32333072-32367408	32.337
Map3k13	0	0	0	82	1.366667	0.223454	0.327222	Unclassified	chr16:21890041-21931950	39.91
R3hdm2	0	0	0	586	9.766667	8.026	1.070825	Unclassified	chr10:126855922-126936439	78.518
Dhdh	0	0	0	228	3.8	2.70764	21.45243	Stalled	chr7:52728932-52746166	15.235
Cyp2d40	0	0	0	4	0.066667	0.048912	0	Unclassified	chr15:82590262-82596552	4.291
Olfir348	0	0	0	3	0.05	0.073624	1	Unclassified	chr2:36640046-36642988	0.943
Cpn2	0	0	0	22	0.366667	0.061536	1.082046	Unclassified	chr16:30256464-30269618	11.155
AU023871	0	0	0	41	0.683333	0.264932	0.132985	Unclassified	chr17:35199637-35205129	3.493
Ppm1j	0	0	0	39	0.65	0.975713	1.32304	Unclassified	chr3:104581973-104588935	4.963
Muted	0	0	0	208	3.466667	6.07811	26.58388	Stalled	chr13:38694574-38728978	32.405
Scin	0	0	0	71	1.183333	0.333837	3.183241	Unclassified	chr12:40786359-40862815	74.457
Tgds	0	0	0	358	5.966667	4.68439	33.46944	Stalled	chr14:118511132-118533987	20.856
Clec1a	0	0	0	24	0.4	0.082357	0	Unclassified	chr6:129376701-129404018	25.318
Stmn2	0	0	0	33	0.55	0.708481	0	Unclassified	chr3:8507526-8561604	52.079
Scg2	0	0	0	6	0.1	0	1.05022	Unclassified	chr1:79431243-79438665	5.423
Scg3	0	0	0	43	0.716667	0.040947	0.485867	Unclassified	chr9:754911173-75533863	40.691
Zfp787	0	0	0	792	13.2	7.76978	16.90056	Unclassified	chr7:6083090-6109573	24.484
Lrrtm3	0	0	0	87	1.45	0.069871	0.654134	Unclassified	chr10:63391244-63555003	161.76
Nlrp3	0	0	0	23	0.383333	0.121119	0.55053	Unclassified	chr11:59354187-59380458	24.272
Prss38	0	0	0	6	0.1	0.031032	0.331774	Unclassified	chr11:59186170-59191155	2.986
Pramel6	0	0	0	2	0.033333	0	2	Unclassified	chr2:87346614-87351022	2.409
Stox1	0	0	0	159	2.65	3.76266	4.406318	Unclassified	chr10:62122169-62190847	66.679
A230051G13Rik	0	0	0	537	8.95	4.51257	22.59196	Unclassified	chr11:58968870-58979244	8.375
Ndrgr2	0	0	0	34	0.566667	0.581734	6.385504	Unclassified	chr14:52524945-52535163	8.219

Bag3	0	0	0	206	3.433333	2.41882	12.38825	Stalled	chr7:135665096-135690491	23.396
Dcaf10	0	0	0	461	7.683333	2.80079	33.14325	Unclassified	chr4:45352972-45392594	37.623
Ankrd13c	0	0	0	712	11.86667	10.3756	40.38476	Unclassified	chr3:157608429-157669801	59.373
Abca9	0	0	0	38	0.633333	0.026581	0	Unclassified	chr11:109962135-110031467	67.333
Abca5	0	0	0	155	2.583333	1.02911	16.42202	Stalled	chr11:110130682-110201030	68.349
Rsl1	0	0	0	146	2.433333	2.01852	19.86328	Stalled	chr13:67272117-67284434	10.318
Dock8	0	0	0	4183	69.71667	16.7587	4.475362	Unclassified	chr19:25072018-25276922	202.905
Rapgef2	0	0	0	361	6.016667	0.855119	1.142802	Unclassified	chr3:78866450-78951797	83.348
Pbx4	0	0	0	198	3.3	2.6065	11.14497	Stalled	chr8:72354602-72396191	39.59
Rwdd2a	0	0	0	205	3.416667	3.68207	40.11939	Stalled	chr9:86463594-86468505	2.912
Nhirc4	0	0	0	16	0.266667	1.19231	0.10828	Unclassified	chr17:26079177-26083876	2.7
Dact1	0	0	0	12	0.2	0.246784	0.88343	Unclassified	chr12:72408970-72419881	8.912
Gapt	0	0	0	25	0.416667	0.754462	4.250737	Unclassified	chr13:111142822-111149380	4.559
Pde4d	0	0	0	1072	17.86667	0.757739	0.547588	Unclassified	chr13:109442370-110741682	1297.313
Act16b	0	0	0	24	0.4	0.190423	2.274379	Unclassified	chr5:137992782-138010801	16.02
Rdh12	0	0	0	181	3.016667	10.5631	7.76293	Unclassified	chr12:80307900-80323648	13.749
Fam81a	0	0	0	78	1.3	0.22672	1.676873	Unclassified	chr9:69937116-69991364	52.249
1700022A21Rik	0	0	0	1	0.016667	0.044255	0	Unclassified	chr5:24149270-24154678	3.409
Oaf	0	0	0	156	2.6	2.93529	6.362578	Unclassified	chr9:43029360-43049899	18.54
Kcnnk10	0	0	0	308	5.133333	0.141392	3.256604	Unclassified	chr12:99672203-99818150	143.948
C1qtnf6	0	0	0	95	1.583333	0.805433	3.269013	Unclassified	chr15:78354515-78362047	5.533
Olfr1213	0	0	0	0	0	0.027385	0	Unclassified	chr2:88813110-88816046	0.937
Col6a1	0	0	0	23	0.383333	0.025787	0	Unclassified	chr10:76171536-76190789	17.254
Col5a2	0	0	0	44	0.733333	0.027125	0.748469	Unclassified	chr1:45431175-45562127	128.953
Col5a1	0	0	0	241	4.016667	0.083896	0.388883	Unclassified	chr2:27739944-27895030	153.087
Col4a5	0	0	0	27	0.45	0.193389	0	Unclassified	chrX:137907961-138123778	213.818
Col8a1	0	0	0	84	1.4	0.022573	0	Unclassified	chr16:57624368-57756850	130.483
Col6a2	0	0	0	48	0.8	0.034369	1.131635	Unclassified	chr10:76058500-76088149	27.65
Mnx1	0	0	0	15	0.25	0.316887	1.153925	Unclassified	chr5:29800362-29807010	4.649
Hoxc11	0	0	0	5	0.083333	0.168083	0.370475	Unclassified	chr15:102782956-102787132	2.177
Col9a1	0	0	0	45	0.75	0.029667	0	Unclassified	chr1:24182448-24259577	75.13
BC018473	0	0	0	11	0.183333	0.437942	0	Unclassified	chr11:116611480-116619197	5.718
Cldnd1	0	0	0	581	9.683333	23.4175	5.984953	Unclassified	chr16:58726156-58734350	6.195
Wnt2b	0	0	0	83	1.383333	0.182837	1.830253	Unclassified	chr3:104747722-104766627	16.906
Ctxn3	0	0	0	12	0.2	0	1.039039	Unclassified	chr18:57626139-57637788	9.65
Olfr484	0	0	0	0	0	0	0	Unclassified	chr7:115267809-115270775	0.967
Zmynd11	0	0	0	1030	17.16667	11.638	7.791835	Unclassified	chr13:9684081-9766454	80.374
Prps2	0	0	0	305	5.083333	8.70182	20.75587	Stalled	chrX:163784264-163822631	36.368
Olfr490	0	0	0	1	0.016667	0.040687	0	Unclassified	chr7:115429693-115432638	0.946
Olfr961	0	0	0	0	0	0	0	Unclassified	chr9:39452312-39455257	0.946
Olfr318	0	0	0	1	0.016667	0.035562	0	Unclassified	chr11:58533627-58536548	0.922
Olfr328	0	0	0	0	0	0.037085	0	Unclassified	chr11:58364806-58367739	0.934
Ccl26	0	0	0	9	0.15	0	4.758565	Unclassified	chr5:136036317-136041439	3.123
Olfr945	0	0	0	0	0	0	0	Unclassified	chr9:39065304-39068264	0.961
Gpha2	0	0	0	10	0.166667	0	0.327791	Unclassified	chr19:6224400-6227767	1.368
Mtap2	0	0	0	173	2.883333	0.276174	2.452526	Unclassified	chr1:66219902-66489157	267.256
1700025G04Rik	0	0	0	327	5.45	0.360024	11.51942	Stalled	chr1:153731653-153939450	205.798
Gpc5	0	0	0	633	10.55	1.35024	2.083405	Unclassified	chr14:115489436-116924414	1432.979
Cts3	0	0	0	2	0.033333	0.040939	0	Unclassified	chr13:61665989-61673426	5.438
Fgf20	0	0	0	5	0.083333	0.121564	0	Unclassified	chr8:41364519-41374307	7.789
Zfp2	0	0	0	34	0.566667	0.205705	3.100233	Unclassified	chr11:50712213-50731663	17.451
Sertad4	0	0	0	13	0.216667	0.193308	1.596309	Unclassified	chr1:194670681-194683915	11.235
Zfp185	0	0	0	73	1.216667	0.086548	0.756633	Unclassified	chrX:70230677-70276882	44.206
Trim26	0	0	0	833	13.88333	24.7017	9.79653	Unclassified	chr17:36972085-36996325	22.241
Rnf112	0	0	0	12	0.2	0.021598	1.276852	Unclassified	chr11:61261943-61269388	5.446
Sfrs15	0	0	0	1456	24.26667	15.7392	19.45144	Unclassified	chr16:90229384-90286670	55.287
Fbxl13	0	0	0	368	6.133333	0.637147	55.24247	Stalled	chr5:20989664-21153423	161.76
Bsx	0	0	0	12	0.2	0.439417	1.156494	Unclassified	chr9:40680209-40686055	3.847
Lcorl	0	0	0	924	15.4	2.19543	31.32214	Unclassified	chr5:46091683-46250779	157.097
1700025F22Rik	0	0	0	16	0.266667	0	2.689921	Unclassified	chr19:11214172-11241810	25.639
Ror2	0	0	0	247	4.116667	0.083846	0.839525	Unclassified	chr13:53204685-53383478	176.794
Pla2g10	0	0	0	26	0.433333	0.087783	0.397673	Unclassified	chr16:13715154-13732678	15.525
Ror1	0	0	0	292	4.866667	0.325554	1.091133	Unclassified	chr4:99766395-100115150	346.756
Nkrf	0	0	0	410	6.833333	2.49501	19.91987	Stalled	chrX:34427536-34444894	15.359
4930503E14Rik	0	0	0	3	0.05	0	0	Unclassified	chr14:44740831-44751036	8.206
Phactr2	0	0	0	196	3.266667	0.997946	2.597886	Unclassified	chr10:12933200-13045966	110.767
4933425L06Rik	0	0	0	26	0.433333	0.011884	0.607301	Unclassified	chr13:105870201-105911862	39.662
Mapk1ip1l	0	0	0	872	14.53333	17.2878	11.5648	Unclassified	chr14:47915988-47942766	24.779
Pacrgl	0	0	0	267	4.45	5.32214	20.25156	Unclassified	chr5:48761630-48779995	16.366
D14Ert436e	0	0	0	227	3.783333	3.65121	9.24848	Unclassified	chr14:48160568-48190109	27.542
Zfp273	0	0	0	63	1.05	1.02777	15.56432	Stalled	chr13:67912752-67927937	13.186
Lym7	0	0	0	442	7.366667	0.335106	52.17621	Stalled	chr11:54652790-54676093	21.304
Nme5	0	0	0	28	0.466667	0.24736	2.772941	Unclassified	chr18:34722294-34740760	16.467
Edar	0	0	0	94	1.566667	0.100998	0.896368	Unclassified	chr10:58063535-58140444	74.91
Lass6	0	0	0	725	12.08333	2.23008	23.96799	Stalled	chr2:68697613-68949347	249.735
Pnmal1	0	0	0	6	0.1	0.045583	1.812822	Unclassified	chr7:17543143-17547669	2.527
Htr1d	0	0	0	33	0.55	0.110182	0.848123	Unclassified	chr4:135977438-136000317	20.88
Ernm	0	0	0	5	0.083333	0.04732	0	Unclassified	chr2:57897525-57907163	7.639
Tcfe3	0	0	0	262	4.366667	11.158	9.773642	Unclassified	chrX:7337786-7352328	12.543
Tpo	0	0	0	61	1.016667	0.01562	0	Unclassified	chr12:30739525-30819474	77.95
Ppil6	0	0	0	81	1.35	1.68855	13.89438	Stalled	chr10:41208244-41234094	23.851
Trp53bp2	0	0	0	535	8.916667	3.6097	43.01919	Stalled	chr1:184337297-184392567	53.271
Ankrd34a	0	0	0	12	0.2	1.89266	1.200448	Unclassified	chr3:96398558-96403701	3.144
Tpmt	0	0	0	202	3.366667	0.372793	61.89294	Stalled	chr13:47118911-47140586	19.676
Pmpcb	0	0	0	311	5.183333	15.5364	10.74814	Unclassified	chr5:21240977-21262970	19.994
Hoxc10	0	0	0	8	0.133333	0.284295	0.490965	Unclassified	chr15:102795295-102802152	4.858

Olf391	0	0	0	4	0.066667	0.022886	0.61781	Unclassified	chr11:73612254-73618486	4.233
Olf1084	0	0	0	0	0	0	0	Unclassified	chr2:86478921-86481875	0.955
Olf774	0	0	0	1	0.016667	0.016456	1	Unclassified	chr10:128673206-128676145	0.94
Erap1	0	0	0	512	8.533333	7.82085	23.44208	Unclassified	chr13:74775319-74829323	52.005
Olf1471	0	0	0	0	0	0	0	Unclassified	chr19:13517503-13520448	0.946
Edn1	0	0	0	18	0.3	1.42403	0.870291	Unclassified	chr13:42394638-42403358	6.721
Olf1447	0	0	0	0	0	0	0	Unclassified	chr19:12975338-12978268	0.931
Edil3	0	0	0	206	3.433333	0.325938	0.709531	Unclassified	chr13:88959076-89462830	501.755
Dna2	0	0	0	535	8.916667	4.89719	11.03526	Unclassified	chr10:62407776-62436936	27.161
Ifitm7	0	0	0	0	0	0.122889	0	Unclassified	chr16:13982891-13986714	1.824
Aldob	0	0	0	7	0.116667	0.052499	0	Unclassified	chr4:49548866-49564355	13.49
Zfp192	0	0	0	272	4.533333	1.29974	19.09885	Unclassified	chr13:21605090-21624980	17.891
Reps1	0	0	0	835	13.91667	10.8518	15.4299	Unclassified	chr10:17773745-17844961	69.217
Csnk1a1	0	0	0	1221	20.35	36.2041	12.68405	Unclassified	chr18:61713235-61747953	32.719
Rbm9	0	0	0	221	3.683333	0.286633	2.562434	Unclassified	chr15:76909419-77139483	228.065
Renbp	0	0	0	142	2.366667	8.07685	1.651031	Elongating	chrX:71167460-71178189	8.73
Lrrc15	0	0	0	26	0.433333	0.050705	1.255476	Unclassified	chr16:30269387-30285340	13.954
Khlh1	0	0	0	123	2.05	0.031661	0.773311	Unclassified	chr14:96504483-96920253	413.771
Dpf2	0	0	0	506	8.433333	13.678	9.486673	Unclassified	chr19:5897134-5914866	15.733
Igj	0	136.711	0	69	1.15	190.74	1.508569	Unclassified	chr5:88948834-88958922	8.089
Pzp	0	0	0	27	0.45	0.054759	0	Unclassified	chr6:128433584-128478738	43.155
Tex15	0	0	0	18	0.3	0.150906	0	Unclassified	chr8:34679015-34696057	15.043
Slc35f4	0	0	0	122	2.033333	0.013627	1.310782	Unclassified	chr14:49918194-50147512	227.319
Bcdin3d	0	0	0	184	3.066667	5.55553	9.989485	Unclassified	chr15:99300514-99307161	4.648
Cobll1	0	0	0	724	12.06667	1.76393	23.6067	Stalled	chr2:64926395-65078683	150.289
Tmprss5	0	0	0	15	0.25	0.012522	0	Unclassified	chr9:48908883-48925690	14.808
Dub1	0	0	0	6	0.1	0.033421	3.292411	Unclassified	chr7:112003529-112011181	5.653
Skint9	0	0	0	16	0.266667	0	0.758135	Unclassified	chr4:112058573-112108590	48.018
Usp1715	0	0	0	0	0	0.024175	0	Unclassified	chr7:110563209-110567688	2.48
Tm4sf20	0	0	0	56	0.933333	0.034109	0	Unclassified	chr1:82753223-82767031	11.809
Skint2	0	0	0	14	0.233333	0.045827	0	Unclassified	chr4:112284356-112320445	34.09
Pdnp	0	0	0	30	0.5	0.086738	0.517366	Unclassified	chr4:142857324-142891410	32.087
Ddx60	0	0	0	209	3.483333	1.31044	29.34034	Stalled	chr8:64404885-64516492	109.608
Aoc3	0	0	0	73	1.216667	0.427256	3.540689	Unclassified	chr11:101189919-101200742	8.824
Anxa8	0	0	0	12	0.2	0	0	Unclassified	chr14:34897175-34913754	14.58
Pnrc2	0	0	0	585	9.75	23.4313	4.348084	Unclassified	chr4:135426840-135431761	2.922
Asphd2	0	0	0	14	0.233333	0.129295	1.032083	Unclassified	chr5:112814465-112823233	6.769
V1rd22	0	0	0	1	0.016667	0.068027	1	Unclassified	chr7:24536929-24539871	0.943
Isl1	0	0	0	14	0.233333	0.147139	5.076736	Unclassified	chr13:117088477-117101896	11.42
Tppp2	0	0	0	0	0	0	0	Unclassified	chr14:52536435-52540375	1.941
Myh13	0	0	0	41	0.683333	0.062915	0	Unclassified	chr11:67138604-67185004	44.401
Acp5	0	0	0	51	0.85	6.64765	0.145781	Unclassified	chr9:21931170-21942190	9.021
Klk9	0	0	0	12	0.2	0.104268	1.56765	Unclassified	chr7:51045260-51052126	4.867
Itga2	0	0	0	123	2.05	0.133693	5.10133	Unclassified	chr13:115626119-115724249	96.131
Itga2b	0	0	0	134	2.233333	1.0441	3.34254	Unclassified	chr11:102314610-102333197	16.588
Zbtb3	0	0	0	241	4.016667	3.27714	5.68272	Unclassified	chr19:8874985-8879344	2.36
Sult1a1	0	0	0	64	1.066667	0.116882	2.779841	Unclassified	chr7:133816383-133821871	3.489
Dph3	0	0	0	296	4.933333	6.41071	16.24294	Unclassified	chr14:32893747-32900851	5.105
Spint2	0	0	0	182	3.033333	13.8708	10.72099	Stalled	chr7:30041348-30068996	25.649
Spint1	0	0	0	45	0.75	0.777772	2.500187	Unclassified	chr2:119061095-119075249	12.155
4932414N04Rik	0	0	0	37	0.616667	0.010554	0	Unclassified	chr2:68493940-68586522	90.583
Spna1	0	0	0	49	0.816667	0.103333	0	Unclassified	chr1:176100998-176178198	75.201
Clec4a4	0	0	0	16	0.266667	0.032953	1.43157	Unclassified	chr6:122938384-122974123	33.74
Elmod2	0	0	0	239	3.983333	1.59158	38.01237	Stalled	chr8:85836530-85858385	19.856
Ang4	0	0	0	6	0.1	0	0.635036	Unclassified	chr14:52383566-52395265	9.7
B630019K06Rik	0	0	0	37	0.616667	1.06452	2.363636	Unclassified	chrX:8467478-8472102	2.625
Rnf183	0	0	0	123	2.05	2.93936	1.071049	Elongating	chr4:62088575-62097760	7.186
Atrn	0	0	0	585	9.75	1.75659	50.08697	Stalled	chr2:130730231-130856062	123.832
Fbl1	0	0	0	9	0.15	0.999619	0.0919	Unclassified	chr11:35610881-35614386	1.506
Fga	0	0	0	15	0.25	0.12097	0.350157	Unclassified	chr3:82828074-82837539	7.466
Phf14	0	0	0	562	9.366667	8.9049	36.61836	Stalled	chr6:11873880-11962096	86.217
Ghrhr	0	0	0	26	0.433333	0.024061	2.306051	Unclassified	chr6:55324288-55338524	12.237
Opcml	0	0	0	692	11.53333	0.042778	1.865396	Unclassified	chr9:27596853-28732633	1133.781
Myh6	0	0	0	30	0.5	0.019605	0.44959	Unclassified	chr14:55560757-55587444	24.688
Lpcat4	0	0	0	238	3.966667	7.05512	12.67036	Unclassified	chr2:112077997-112087268	7.272
Lrrc42	0	0	0	284	4.733333	10.5234	29.39048	Stalled	chr4:106906118-106928138	20.021
Pcdh15	0	0	0	387	6.45	0.063201	0	Unclassified	chr10:73282614-74112475	827.862
Tnfaip6	0	0	0	18	0.3	0.193771	2.376733	Unclassified	chr2:51891632-51912201	18.57
Tnfrsf11a	0	0	0	128	2.133333	0.144489	1.050301	Unclassified	chr1:107675299-107744558	67.26
Tnfrsf18	0	0	0	38	0.633333	7.12621	4.871741	Unclassified	chr4:155398450-155403000	2.551
Tnfrsf1a	0	0	0	33	0.55	0.475615	1.59975	Unclassified	chr6:125297740-125312501	12.762
Otud7b	0	0	0	772	12.86667	6.38404	15.55409	Unclassified	chr3:95906449-95965052	56.604
Accs	0	0	0	153	2.55	2.69377	6.459867	Unclassified	chr2:93675609-93691933	14.325
Wdr67	0	0	0	525	8.75	5.63971	10.5612	Unclassified	chr15:57741753-57801623	57.871
Sik2	0	0	0	550	9.166667	2.65073	32.33211	Stalled	chr9:50700905-50819178	116.274
Gtf2ird1	0	0	0	384	6.4	0.85135	3.395358	Unclassified	chr5:134833530-134934581	99.052
D19Erd737e	0	0	0	413	6.883333	9.89514	24.17956	Unclassified	chr19:60274488-60304600	28.113
Fam150b	0	0	0	50	0.833333	0.09464	0.153641	Unclassified	chr12:31567188-31578719	9.532
Olf894	0	0	0	1	0.016667	0	1	Unclassified	chr9:38024402-38027350	0.949
Scara3	0	0	0	35	0.583333	0.097863	1.036534	Unclassified	chr14:66538231-66574581	34.351
Adipor1	0	0	0	548	9.133333	33.7387	19.02287	Unclassified	chr1:136310043-136328918	16.876
Tmtc2	0	0	0	555	9.25	1.05265	15.80467	Stalled	chr10:104624719-105013535	386.817
Olf26	0	0	0	0	0	0	0	Unclassified	chr9:38660644-38663573	0.93
38970	0	0	0	1598	26.63333	14.0225	18.00363	Unclassified	chr5:93520482-93603984	81.503
Klf5	0	0	0	15	0.25	0.438149	1.600311	Unclassified	chr14:99695909-99712628	14.72
Lrrc66	0	0	0	41	0.683333	0.074586	2.529491	Unclassified	chr5:73997880-74025660	25.781

Slc10a4	0	0	0	7	0.116667	0.466616	2.149298	Unclassified	chr5:73396142-73404194	6.053
Cldn6	0	0	0	5	0.083333	0.119619	1.350016	Unclassified	chr17:23814331-23819407	3.077
Snora62	0	0	0	252	4.2	1.50191	139	Unclassified	chr9:120037551-120039679	0.129
Atp6ap1	0	0	0	222	3.7	23.1469	14.81815	Unclassified	chrX:71540435-71550060	7.626
Btk	0	0	0	527	8.783333	20.9423	7.619135	Unclassified	chrX:131076879-131119679	40.801
13000181I7Rik	0	0	0	281	4.683333	5.27911	7.498777	Unclassified	chr8:125766257-125780075	11.819
Prss22	0	0	0	13	0.216667	0.12584	0.489841	Unclassified	chr17:24130500-24137067	4.568
Krtap31-1	0	0	0	0	0	0	0	Unclassified	chr11:99767233-99770204	0.972
Fbxo43	0	0	0	41	0.683333	0.679365	6.382501	Unclassified	chr15:36079814-36096639	14.826
Iapp	0	0	0	0	0	0	0	Unclassified	chr6:142244944-142252339	5.396
Copb1	0	0	0	475	7.916667	19.6675	18.21645	Unclassified	chr7:121359072-121400194	39.123
P2ry12	0	0	0	225	3.75	0.25216	1.579808	Unclassified	chr3:59020192-59068753	46.562
Rnh1	0	0	0	274	4.566667	40.8824	4.680202	Unclassified	chr7:148346224-148356588	8.365
Sf3b4	0	0	0	504	8.4	25.8341	16.56299	Unclassified	chr3:95974472-95981487	5.016
Gm14458	0	0	0	0	0	0.007468	0	Unclassified	chrX:8563025-8565881	0.857
Ogdhl	0	0	0	47	0.783333	0.289844	1.113857	Unclassified	chr14:33133204-33161006	25.803
Creb31	0	0	0	233	3.883333	0.490982	0.921834	Unclassified	chr2:91822484-91866327	41.844
Vps39	0	0	0	619	10.31667	8.55146	10.74391	Unclassified	chr2:120142201-120180869	36.669
Tcfec	0	0	0	37	0.616667	0.057434	0.640223	Unclassified	chr6:16783380-16850441	65.062
Phox2b	0	0	0	15	0.25	0.063224	0	Unclassified	chr5:67485637-67492365	4.729
Olf1240	0	0	0	0	0	0.027125	0	Unclassified	chr2:89279489-89282434	0.946
Tcfcb	0	0	0	163	2.716667	34.1325	0.659301	Unclassified	chr17:47920692-47929364	6.673
Adm2	0	0	0	5	0.083333	0.196231	0.550725	Unclassified	chr15:89151402-89155161	1.76
Tcfap2c	0	0	0	17	0.283333	0.154286	0.33411	Unclassified	chr2:172373092-172384119	9.028
Tmsb15a	0	0	0	0	0	0.085728	0	Unclassified	chrX:132253205-132257212	2.008
Dolpp1	0	0	0	319	5.316667	10.0379	10.00422	Unclassified	chr2:30245935-30256047	8.113
Adamts20	0	0	0	91	1.516667	0.510791	1.814649	Unclassified	chr15:94100594-94236781	134.188
Rspo1	0	0	0	45	0.75	0.062894	1.071566	Unclassified	chr4:124661673-124686343	22.671
Skap1	0	0	0	443	7.383333	0.190136	2.008197	Unclassified	chr11:96323937-96620936	295
Pja2	0	0	0	228	3.8	3.5453	23.17186	Stalled	chr17:64630354-64683223	50.87
Dll4	0	0	0	27	0.45	0.508754	0.575314	Unclassified	chr2:119149519-119161402	9.884
Tctn3	0	0	0	94	1.566667	4.20875	14.83634	Stalled	chr19:40670935-40688705	15.771
Ubl4b	0	0	0	1	0.016667	0.046571	0	Unclassified	chr3:107356615-107359991	1.377
4930524B15Rik	0	0	0	16	0.266667	0.026169	2.168193	Unclassified	chr11:31863632-31879651	14.02
Rgag4	0	0	0	9	0.15	0.873085	2.612797	Unclassified	chrX:99261880-99268646	4.767
Zfand6	0	0	0	294	4.9	10.4029	1.470791	Unclassified	chr7:91763563-91829861	64.299
Fat2	0	0	0	93	1.55	0.04443	0	Unclassified	chr11:55064111-55127759	61.649
Krtap16-1	0	0	0	0	0	0	0	Unclassified	chr16:88873909-88876514	0.606
Gprc5a	0	0	0	49	0.816667	0.346717	8.412867	Unclassified	chr6:135013679-135034724	19.046
Grm2	0	0	0	46	0.766667	0.030883	3.364204	Unclassified	chr9:106546867-106560440	11.574
Plp2	0	0	0	193	3.216667	18.917	5.126827	Unclassified	chrX:7245241-7250404	3.164
Olf912	0	0	0	2	0.033333	0.032156	0.492128	Unclassified	chr9:38385828-38389796	1.969
Gm13547	0	0	0	45	0.75	0.118589	0.59261	Unclassified	chr2:29615082-29624516	7.435
Erc6	0	0	0	863	14.38333	2.12261	32.93962	Unclassified	chr14:33324706-33394175	67.47
Gm13034	0	0	0	0	0	1.31452	0	Unclassified	chr4:146032924-146036119	1.196
Tll1	0	0	0	86	1.433333	2.31952	9.785376	Unclassified	chr15:83314198-83343337	27.14
Saa1	0	0	0	4	0.066667	0.584354	0	Unclassified	chr7:53995868-54000350	2.483
Serpina1f	0	0	0	13	0.216667	0.012175	1.180385	Unclassified	chr12:104926253-104935739	7.487
Shprh	0	0	0	403	6.716667	2.64934	26.06775	Stalled	chr10:10867227-10935071	65.845
1110012L19Rik	0	0	0	58	0.966667	5.6667	6.389866	Unclassified	chrX:67637087-67642591	3.505
Tmem174	0	0	0	5	0.083333	0.034147	0.417589	Unclassified	chr13:99404932-99409365	2.434
1110012J17Rik	0	0	0	117	1.95	0.204223	1.997944	Unclassified	chr17:66686321-66801090	112.77
Sirt5	0	0	0	56	0.933333	1.1569	0.933474	Unclassified	chr13:43464084-43490572	24.489
Samd3	0	0	0	39	0.65	0.056357	1.056928	Unclassified	chr10:25947512-25991978	42.467
Olf1416	0	0	0	2	0.033333	0.033299	1	Unclassified	chr1:94376257-94379196	0.94
Olf13	0	0	0	2	0.033333	0	0	Unclassified	chr6:43121986-43124919	0.934
C130060K24Rik	0	0	0	49	0.816667	0.069442	0.612459	Unclassified	chr6:65329287-65408144	76.858
Jam2	0	0	0	121	2.016667	2.96647	0.885796	Unclassified	chr16:84772367-84823129	48.763
Zfp606	0	0	0	129	2.15	6.12686	8.204525	Unclassified	chr7:13061653-13081584	17.932
Olf1683	0	0	0	1	0.016667	0	1	Unclassified	chr7:112291863-112294823	0.961
Gm1027	0	0	0	81	1.35	0.082572	0.741186	Unclassified	chr4:106353021-106402535	47.515
Pfn2	0	0	0	96	1.6	2.54496	7.325864	Unclassified	chr3:57645817-57653679	5.863
Mup20	0	0	0	0	0	0.028862	0	Unclassified	chr4:61711268-61717151	3.884
Baat	0	0	0	17	0.283333	0.039353	1.661679	Unclassified	chr4:49502290-49521430	17.141
Ube2u	0	0	0	62	1.033333	0	0.539453	Unclassified	chr4:100149471-100222750	71.28
Gm12789	0	0	0	3	0.05	0.033375	0	Unclassified	chr4:101657444-101662836	3.393
Rcan1	0	0	0	328	5.466667	4.52505	9.170347	Unclassified	chr16:92392197-92468391	74.195
Nek2	0	0	0	683	11.38333	20.6168	7.041799	Unclassified	chr1:193643351-193656928	11.578
Gc	0	0	0	17	0.283333	0.049935	0	Unclassified	chr5:89846546-89888790	40.245
Olf12	0	0	0	2	0.033333	0.065124	1	Unclassified	chr7:114144388-114147372	0.985
Mrps2	0	0	0	241	4.016667	13.1358	5.108402	Unclassified	chr2:28321585-28326697	3.113
Syt11	0	0	0	115	1.916667	2.64005	1.302663	Unclassified	chr3:88548622-88578521	27.9
Cbr3	0	0	0	123	2.05	3.32373	16.28262	Stalled	chr16:93681463-93691235	7.773
Snrnp35	0	0	0	519	8.65	12.9872	12.39667	Unclassified	chr5:124931163-124941131	7.969
Zfp652	0	0	0	129	2.15	2.43085	1.139942	Unclassified	chr11:95608380-95626027	15.648
Trub1	0	0	0	351	5.85	5.46792	11.43075	Unclassified	chr19:57525395-57565493	38.099
AU018778	0	0	0	14	0.233333	0	0.633524	Unclassified	chr8:95780138-95805610	23.473
Gdr156	0	0	0	106	1.766667	0.131435	1.413903	Unclassified	chr16:37914581-38007615	91.035
Wdsu1	0	0	0	168	2.8	3.09581	21.21969	Stalled	chr2:59690423-59722663	30.241
Rhox1	0	0	0	2	0.033333	0.087186	0	Unclassified	chrX:34753799-34764253	8.455
Epha6	0	0	0	427	7.116667	0.027379	0	Unclassified	chr16:59653308-60607357	952.05
Tshz1	0	0	0	572	9.533333	4.39249	11.81984	Unclassified	chr18:84181018-84257954	74.937
Ephb3	0	0	0	31	0.516667	0.13914	2.659158	Unclassified	chr16:21202867-21223377	18.511
Hmgn5	0	0	0	133	2.216667	11.8058	32.20729	Stalled	chrX:106199875-106210719	8.845
Ephb6	0	0	0	36	0.6	0.170611	7.941486	Unclassified	chr6:41553480-41570506	15.027
Thoc3	0	0	0	342	5.7	18.7044	9.89304	Unclassified	chr13:54560198-54572201	10.004

Chml	0	0	0	26	0.433333	0.880011	1.27181	Unclassified	chr1:177612368-177620484	6.117
Cadm3	0	0	0	53	0.883333	0.110937	2.5802	Unclassified	chr1:175264384-175299826	33.443
Pole4	0	0	0	559	9.316667	17.3902	40.30778	Unclassified	chr6:82596705-82604859	6.155
Luc7l	0	0	0	1207	20.11667	18.7071	13.361	Unclassified	chr17:26387854-26422449	32.596
Olfr143	0	0	0	2	0.033333	0.020392	2	Unclassified	chr9:38059003-38061945	0.943
Ipo13	0	0	0	395	6.583333	12.0073	22.85905	Unclassified	chr4:117567097-117589604	20.508
2410002022Rik	0	0	0	553	9.216667	9.62077	42.15176	Unclassified	chr13:104932232-104970546	36.315
4933411K20Rik	0	0	0	124	2.066667	2.49321	0.176265	Unclassified	chr8:47252909-47280944	26.036
Tubal3	0	0	0	7	0.116667	0.099268	0.614965	Unclassified	chr13:3921940-3934522	10.583
Tmem125	0	0	0	15	0.25	0.158311	2.239816	Unclassified	chr4:118213545-118218331	2.787
Ssbp2	0	0	0	1260	21	1.18598	19.02276	Unclassified	chr13:91598701-91845780	245.08
Slc25a23	0	0	0	60	1	2.55805	2.428668	Unclassified	chr17:57183134-57201286	16.153
Neo1	0	0	0	103	1.716667	0.13246	3.786178	Unclassified	chr9:58722486-58886248	161.763
Ttll8	0	0	0	60	1	0.056136	0.845093	Unclassified	chr15:88744327-88786840	40.514
Faim2	0	0	0	60	1	0.065739	1.059143	Unclassified	chr15:99327435-99360448	31.014
Baiap212	0	0	0	105	1.75	0.395699	2.577335	Unclassified	chr15:79088624-79117939	27.316
Vmn2r39	0	0	0	1	0.016667	0	0	Unclassified	chr7:9145158-9163091	15.934
Mea1	0	0	0	294	4.9	46.7415	8.429716	Unclassified	chr17:46816085-46820054	1.97
Atp1b1	0	0	0	122	2.033333	1.98392	8.276857	Unclassified	chr1:166367397-166390486	21.09
Cplx4	0	0	0	36	0.6	0.058389	1.513563	Unclassified	chr18:66115375-66131832	14.458
Tbl3	0	0	0	430	7.166667	15.3918	6.755952	Unclassified	chr17:24837597-24846598	7.002
Catsper1	0	0	0	19	0.316667	0.018656	0	Unclassified	chr19:5333740-5344153	8.414
Kank4	0	0	0	85	1.416667	0.040043	0.870431	Unclassified	chr4:98421582-98486228	62.647
Sestd1	0	0	0	105	1.75	0.186175	2.945187	Unclassified	chr2:77024131-77120649	94.519
Aebp1	0	0	0	283	4.716667	0.467282	0.198214	Unclassified	chr11:5759868-5772228	10.361
Trim68	0	0	0	150	2.5	2.72513	26.41468	Stalled	chr7:109826093-109837840	9.748
Nt5c1a	0	0	0	30	0.5	0.081337	1.914965	Unclassified	chr4:122876795-122893450	14.656
Numa1	0	0	0	920	15.33333	18.4262	5.423879	Unclassified	chr7:109116356-109163472	45.117
Avil	0	0	0	114	1.9	0.527851	3.29733	Unclassified	chr10:126435764-126458050	20.287
Kcnc1	0	0	0	636	10.6	1.64673	2.955907	Elongating	chr2:166928882-167016299	85.418
Nell1	0	0	0	482	8.033333	0.05925	3.251391	Unclassified	chr7:57228719-58118659	887.941
Tmprs2	0	0	0	108	1.8	0.048654	0.925635	Unclassified	chr16:97786288-97834802	46.515
Unc13b	0	0	0	188	3.133333	0.377745	4.828653	Unclassified	chr4:43069855-43277745	205.891
Umps	0	0	0	495	8.25	19.3503	8.541252	Unclassified	chr16:33955097-33969089	11.993
Umod	0	0	0	17	0.283333	0.025934	0.506417	Unclassified	chr7:126606380-126624769	16.39
Ulk1	0	0	0	466	7.766667	5.08418	14.43377	Unclassified	chr5:111213507-111241100	25.594
Dpysl3	0	0	0	62	1.033333	0.136476	2.177545	Unclassified	chr18:43483880-43554985	69.106
Naglu	0	0	0	252	4.2	8.01445	20.99628	Stalled	chr11:100929407-100938983	7.577
Frzb	0	0	0	29	0.483333	0.184344	0.599499	Unclassified	chr2:80252126-80289553	35.428
Olfr909	0	0	0	3	0.05	0.054771	2	Unclassified	chr9:38329318-38332254	0.937
Cwf1912	0	0	0	454	7.566667	3.23803	20.36601	Stalled	chr9:3402084-3479236	75.153
Rxfp3	0	0	0	7	0.116667	0.141667	1.040461	Unclassified	chr15:10963471-10969723	4.253
Adamts12	0	0	0	184	3.066667	0.030838	0	Unclassified	chr15:10992544-11276622	282.079
Fgfr1	0	0	0	108	1.8	0.10777	1.434977	Unclassified	chr8:26627243-26686186	56.944
Sdr42e1	0	0	0	44	0.733333	0.66455	0.826692	Unclassified	chr8:120185298-120197415	10.118
Rin2	0	0	0	118	1.966667	0.099074	1.405609	Unclassified	chr2:145609851-145713352	101.502
C130074G19Rik	0	0	0	13	0.216667	0.088829	0.957939	Unclassified	chr1:186695804-186708915	11.112
Atp1a2	0	0	0	92	1.533333	0.095057	0.219813	Unclassified	chr1:174201839-174230195	26.357
Mrpl2	0	0	0	334	5.566667	44.8121	12.03161	Unclassified	chr17:46781196-46787081	3.886
Hamp2	0	0	0	4	0.066667	0.046551	0.56425	Unclassified	chr7:31707415-31711200	1.786
Mrpl15	0	0	0	516	8.6	22.0794	19.37311	Unclassified	chr1:4764014-4777768	11.755
Tpm2	0	0	0	36	0.6	0.171033	2.845812	Unclassified	chr4:43527583-43538260	8.678
2010012005Rik	0	0	0	415	6.916667	5.9589	9.365904	Unclassified	chr19:46762395-46777872	13.478
Wdr13	0	0	0	262	4.366667	4.91043	12.46357	Stalled	chrX:7700427-7711984	9.558
Arhgap18	0	0	0	273	4.55	1.81057	14.31501	Stalled	chr10:26490317-26638454	146.138
Dynll1	0	0	0	360	6	36.3618	7.243925	Unclassified	chr5:115747118-115752999	3.882
Actl6a	0	0	0	657	10.95	30.6201	12.82204	Unclassified	chr3:32605467-32625893	18.427
Il7r	0	0	0	24	0.4	0.115675	0.496927	Unclassified	chr15:9435913-9461631	23.719
Olfr1219	0	0	0	0	0	0.043862	0	Unclassified	chr2:88914310-88917246	0.937
Orc6l	0	0	0	658	10.96667	24.6589	23.98996	Unclassified	chr8:87821530-87832177	8.648
Bcam	0	0	0	37	0.616667	0.505838	2.442234	Unclassified	chr7:20341486-20357881	14.396
Slc25a20	0	0	0	106	1.766667	10.1186	8.814951	Unclassified	chr9:108562428-108586972	22.545
Vsig2	0	0	0	14	0.233333	0.032862	1.985531	Unclassified	chr9:37344839-37351790	4.952
Slurp1	0	0	0	50	0.833333	0	0.265071	Unclassified	chr15:74557073-74560456	1.384
Lenep	0	0	0	20	0.333333	2.59348	13	Unclassified	chr3:89205818-89208572	0.755
Olfr202	0	0	0	1	0.016667	0.041611	0	Unclassified	chr16:59283397-59286321	0.925
Mtmr11	0	0	0	123	2.05	0.76597	0.371511	Unclassified	chr3:95963892-95975640	9.749
Olfr1508	0	0	0	4	0.066667	0.144313	0	Unclassified	chr14:53082395-53089136	4.742
Olfr1509	0	0	0	2	0.033333	0.497721	1	Unclassified	chr14:53068067-53071077	1.011
Olfr124	0	0	0	2	0.033333	0	1	Unclassified	chr17:37940091-37943039	0.949
Olfr520	0	0	0	1	0.016667	0.040334	0	Unclassified	chr7:106881654-106884605	0.952
L1cam	0	0	0	41	0.683333	0.411888	2.60317	Unclassified	chrX:71099118-71128173	27.056
Olfr668	0	0	0	1	0.016667	0.009435	0	Unclassified	chr7:112073319-112076276	0.958
Olfr667	0	0	0	3	0.05	0.054945	2	Unclassified	chr7:112064827-112067808	0.982
Olfr691	0	0	0	3	0.05	0.052905	1	Unclassified	chr7:112485259-112488228	0.97
Olfr1390	0	0	0	2	0.033333	0.033018	2	Unclassified	chr11:49152035-49154971	0.937
Olfr1389	0	0	0	2	0.033333	0	0	Unclassified	chr11:49241979-49244915	0.937
Gm4763	0	0	0	6	0.1	0	0.570407	Unclassified	chr7:25507512-25511309	1.798
Bche	0	0	0	21	0.35	0.016513	1.580611	Unclassified	chr3:73439730-73514337	72.608
Csda	0	0	0	976	16.26667	71.0042	3.528546	Unclassified	chr6:131314875-131340468	23.594
Bcap29	0	0	0	588	9.8	10.3893	21.03626	Unclassified	chr12:32280218-32321462	39.245
Bcan	0	0	0	77	1.283333	0.509985	0.607861	Unclassified	chr3:87791452-87806278	12.827
Nupl2	0	0	0	399	6.65	3.27286	23.80688	Unclassified	chr5:23668780-23689826	19.047
Gbx1	0	0	0	42	0.7	0.326342	0.348789	Unclassified	chr5:24010243-24034666	22.424
Chn2	0	0	0	28	0.466667	0.268306	1.076781	Unclassified	chr6:54220815-54251806	28.992
Fsd1	0	0	0	24	0.4	0.058656	2.216301	Unclassified	chr17:56123933-56136304	10.372

BC031441	0	0	0	226	3.766667	0.997102	24.93943	Stalled	chr17:56077797-56086682	6.886
Cno	0	0	0	198	3.3	21.8008	42.74981	Unclassified	chr5:37138612-37141918	1.307
Oifr1113	0	0	0	0	0	0	0	Unclassified	chr2:87051050-87054031	0.982
Gm5416	0	0	0	6	0.1	0	0.614903	Unclassified	chr16:36208488-36217874	7.387
Wfdc13	0	0	0	8	0.133333	0.023867	0.695936	Unclassified	chr2:164508606-164513206	2.601
Agpat2	0	0	0	334	5.566667	3.56775	18.1075	Unclassified	chr2:26449106-26461730	10.625
2810432D09Rik	0	0	0	215	3.583333	24.4361	3.155844	Unclassified	chr4:41659064-41662549	1.486
Radil	0	0	0	101	1.683333	0.020913	2.885944	Unclassified	chr5:142960794-143029031	66.238
Syap1	0	0	0	104	1.733333	6.32355	16.96755	Stalled	chrX:159294776-159328394	31.619
R3hdm1	0	0	0	893	14.88333	6.97776	27.94688	Unclassified	chr1:129997882-130134312	134.431
Gaint16	0	0	0	483	8.05	0.043922	0	Unclassified	chr8:60255019-61392424	1135.406
Kctd4	0	0	0	98	1.633333	0	0.790937	Unclassified	chr14:76352809-76365024	10.216
Lingo4	0	0	0	13	0.216667	0.10875	0.280293	Unclassified	chr3:94201140-94208423	5.284
Tmem121	0	0	0	15	0.25	0.232296	1.2161	Unclassified	chr12:114422113-114427733	3.621
Pdia2	0	0	0	124	2.066667	0.052129	0.857846	Unclassified	chr17:26332943-26338032	3.09
Adam12	0	0	0	233	3.883333	0.030208	0	Unclassified	chr7:141074882-141418780	341.899
Nfrkb	0	0	0	624	10.4	8.35988	17.01664	Unclassified	chr9:31191796-31228918	35.123
Trim63	0	0	0	19	0.316667	0.055762	0	Unclassified	chr4:133869034-133885544	14.511
9430016H08Rik	0	0	0	246	4.1	15.1579	28.13688	Stalled	chr1:57461391-57472802	9.412
Tmem45b	0	0	0	72	1.2	0.016275	0.346063	Unclassified	chr9:31233780-31273823	38.044
Klhl26	0	0	0	649	10.81667	4.81275	4.742628	Unclassified	chr8:72974126-73002842	26.717
Sdr16c5	0	0	0	17	0.283333	0	0	Unclassified	chr4:3923088-3948810	23.723
Gm382	0	0	0	5	0.083333	0	0.85194	Unclassified	chrX:123572503-123598518	24.016
Krt23	0	0	0	18	0.3	0	0.938253	Unclassified	chr11:99339286-99356424	15.139
Intu	0	0	0	141	2.35	0.875425	11.52281	Stalled	chr3:40437688-40508662	68.975
Hrg	0	0	0	11	0.183333	0.022123	0	Unclassified	chr16:22949144-22961733	10.59
Ddx20	0	0	0	342	5.7	7.43336	16.28091	Unclassified	chr3:105481379-105492489	9.111
Lix1	0	0	0	46	0.766667	0.11631	2.280503	Unclassified	chr17:17537649-17596351	56.703
Wbscr27	0	0	0	181	3.016667	3.47017	4.86149	Unclassified	chr5:135406242-135418507	10.266
Rfx5	0	0	0	434	7.233333	9.64513	0.790942	Unclassified	chr3:94756936-94765483	6.548
Dcp2	0	0	0	1026	17.1	6.08176	21.03823	Unclassified	chr18:44538153-44584623	44.471
Dennd5b	0	0	0	526	8.766667	2.24931	8.37697	Unclassified	chr6:148936590-149052202	113.613
Naa30	0	0	0	294	4.9	4.89189	30.70414	Stalled	chr14:49789901-49810706	18.806
Klhl15	0	0	0	387	6.45	2.48145	43.28672	Stalled	chrX:91478268-91518854	38.587
Gstm6	0	0	0	10	0.166667	0.061176	0	Unclassified	chr3:107741765-107748667	4.903
Gstm3	0	0	0	11	0.183333	0.332053	1.168179	Unclassified	chr3:107766613-107774076	5.464
Pr12b1	0	0	0	4	0.066667	0.029667	1.529578	Unclassified	chr13:27475213-27484715	7.503
Pdk3	0	0	0	350	5.833333	9.7761	39.39907	Stalled	chrX:91009954-91079434	67.481
Pcsk1	0	0	0	23	0.383333	0.106973	1.349731	Unclassified	chr13:75225434-75269946	42.513
Giul	0	0	0	435	7.25	10.755	40.70478	Stalled	chr1:155745074-155756844	9.771
Pcp2	0	0	0	98	1.633333	0.741863	0.902661	Unclassified	chr8:3623370-3627545	2.176
Ndn12	0	0	0	213	3.55	22.7715	31.46488	Unclassified	chr7:72016535-72019926	1.392
Pla2g4d	0	0	0	55	0.916667	0.039003	2.245802	Unclassified	chr2:120091604-120116805	23.202
Rxfp2	0	0	0	67	1.116667	0.090762	0.486433	Unclassified	chr5:150819249-150884761	63.513
Gstp2	0	0	0	8	0.133333	32.1571	0.712834	Unclassified	chr19:4040287-4044221	1.935
Aldh1l2	0	0	0	223	3.716667	0.558083	1.608381	Unclassified	chr10:82950191-82998885	46.695
Agtpbp1	0	0	0	1095	18.25	4.868	24.80314	Unclassified	chr13:59550895-59660680	107.786
Oifr1298	0	0	0	0	0	0	0	Unclassified	chr2:111485213-111488152	0.94
Vopp1	0	0	0	362	6.033333	3.33003	18.79613	Stalled	chr6:57702257-57777119	72.863
Cyp4f15	0	0	0	22	0.366667	0.13295	0	Unclassified	chr17:32820603-32840294	17.692
Cyp11b2	0	0	0	17	0.283333	0.051256	0.844546	Unclassified	chr15:74681439-74688748	5.31
Tceal1	0	0	0	22	0.366667	0.115349	3.724224	Unclassified	chrX:133240603-133244405	1.803
Cyp17a1	0	0	0	17	0.283333	0.055693	0	Unclassified	chr19:46741654-46749490	5.837
Cyp19a1	0	0	0	19	0.316667	0.102617	0	Unclassified	chr9:54013743-54043249	27.507
Cyp1a1	0	0	0	24	0.4	0.078286	1.358463	Unclassified	chr9:57533734-57551629	15.896
Rassf9	0	0	0	18	0.3	0.060512	1.351439	Unclassified	chr10:101972855-102009194	34.34
Cyp21a1	0	0	0	4	0.066667	0.021333	1.350649	Unclassified	chr17:34938292-34943371	3.08
Zdhhc23	0	0	0	85	1.416667	0.39083	1.644647	Unclassified	chr16:43969258-43981163	9.906
Zfp187	0	0	0	234	3.9	3.94733	16.18472	Unclassified	chr13:21534043-21547596	11.554
Mrps9	0	0	0	738	12.3	25.4854	15.0581	Unclassified	chr1:42906077-42962528	54.452
Nr5a1	0	0	0	47	0.783333	0.034792	2.024821	Unclassified	chr2:38548179-38572062	21.884
Tmem151b	0	0	0	32	0.533333	0.471407	1.63919	Unclassified	chr17:45678900-45688626	7.727
Gm11315	0	0	0	0	0	0	0	Unclassified	chr13:22897448-22900387	0.94
Chrd11	0	0	0	34	0.566667	0.022097	0.765275	Unclassified	chrX:139720216-139830805	108.59
Fth17	0	0	0	1	0.016667	0.007539	0	Unclassified	chrX:8608611-8611459	0.849
Mov101l	0	0	0	76	1.266667	0.034793	0.490218	Unclassified	chr15:88811423-88885582	72.16
Nxf2	0	0	0	45	0.75	0.108063	0	Unclassified	chrX:131479069-131501293	20.225
Nlk	0	0	0	576	9.6	3.62229	29.5185	Stalled	chr11:78380669-78512927	130.259
B230312A22Rik	0	0	0	262	4.366667	3.57893	3.178238	Unclassified	chr4:43045381-43061075	13.695
Pabpn1	0	0	0	446	7.433333	108.871	7.288404	Unclassified	chr14:55510979-55517764	4.786
Prkd1	0	0	0	143	2.383333	0.074652	0.688336	Unclassified	chr12:51442218-51752210	307.993
Pbsn	0	0	0	3	0.05	0	0	Unclassified	chrX:75083236-75100839	15.604
Nkx6-1	0	0	0	22	0.366667	0.22848	0.487794	Unclassified	chr5:102088215-102095730	5.516
Nkx3-1	0	0	0	8	0.133333	0.167507	0.994638	Unclassified	chr14:69806748-69812715	3.968
Nkx2-9	0	0	0	7	0.116667	0.255102	0	Unclassified	chr12:57712383-57716271	1.889
Scn5a	0	0	0	181	3.016667	0.121096	2.129134	Unclassified	chr9:119392528-119490134	95.607
Scn7a	0	0	0	37	0.616667	0.038451	0	Unclassified	chr2:66511482-66624967	111.486
Scn8a	0	0	0	243	4.05	0.193642	0.853638	Unclassified	chr15:100699113-100876360	175.248
Scn9a	0	0	0	60	1	0.04236	1.45939	Unclassified	chr2:66318137-66475009	154.873
Rbbp9	0	0	0	78	1.3	2.27252	3.68897	Unclassified	chr2:144368000-144378595	8.596
Scnn1g	0	0	0	48	0.8	0.056193	1.759163	Unclassified	chr7:128876020-128911991	33.972
Setd5	0	0	0	2042	34.03333	13.4681	29.23095	Unclassified	chr6:113025632-113103418	75.787
Rpusd1	0	0	0	197	3.283333	9.00391	10.39821	Stalled	chr17:25862695-25868401	3.707
Xlr4c	0	0	0	2	0.033333	0.891288	0.889576	Unclassified	chrX:70479414-70490469	9.056
Sc1t1	0	0	0	371	6.183333	2.96195	64.78602	Stalled	chr3:41430626-41548436	115.811
Lipt2	0	0	0	315	5.25	5.00488	32.93918	Unclassified	chr7:107305786-107309441	1.656

Nradd	0	0	0	262	4.366667	1.10075	1.820245	Elongating	chr9:110523638-110528897	3.26
Lpar6	0	129.7257	0	148	2.466667	15.8805	1.841113	Elongating	chr14:73635697-73640165	2.469
Olfr160	0	0	0	2	0.033333	0.055006	2	Unclassified	chr9:37518933-37521865	0.933
Mybpc2	0	0	0	291	4.85	1.6016	2.673746	Elongating	chr7:51757068-51782026	22.959
Il24	0	0	0	14	0.233333	0.080389	0.565747	Unclassified	chr1:132778650-132785988	5.339
Mypn	0	0	0	116	1.933333	0.058634	0	Unclassified	chr10:62578542-62668700	88.159
Ugt2a3	0	0	0	6	0.1	0.004981	0.737274	Unclassified	chr5:87753996-87768220	12.225
Entpd8	0	0	0	14	0.233333	0.033347	0.268203	Unclassified	chr2:24933842-24941239	5.398
Vtcn1	0	0	0	71	1.183333	0.02444	2.620199	Unclassified	chr3:100627381-100700845	71.465
BC037703	0	0	0	49	0.816667	0.039623	0	Unclassified	chr3:101616998-101642146	23.149
Sqrdl	0	0	0	28	0.466667	0.22363	0	Unclassified	chr2:122605734-122635285	27.552
Myoz1	0	0	0	10	0.166667	0.019809	0.958333	Unclassified	chr14:21468323-21477762	7.44
Moxd1	0	0	0	60	1	0.203698	1.775214	Unclassified	chr10:23941322-24022589	79.268
Thap11	0	0	0	83	1.383333	17.1871	4.74109	Unclassified	chr8:108377002-108380850	1.849
Has2	0	0	0	16	0.266667	0.042278	0.666039	Unclassified	chr15:56497181-56528101	28.921
Has1	0	0	0	32	0.533333	0.042926	0.259472	Unclassified	chr17:17980291-17994152	11.862
Hand2	0	0	0	7	0.116667	0.074547	0.388005	Unclassified	chr8:59797779-59803314	3.536
Hand1	0	0	0	8	0.133333	0.290359	0.288762	Unclassified	chr11:57642214-57647649	3.436
Ccr4	0	0	0	59	0.983333	0.9012	1.24443	Unclassified	chr9:114399433-114407662	6.23
Hao1	0	0	0	35	0.583333	0.025266	0	Unclassified	chr2:134323096-134382088	56.993
Idh3a	0	0	0	378	6.3	13.8427	13.36681	Unclassified	chr9:54432317-54452469	18.153
Krtap17-1	0	0	0	3	0.05	0.067366	3	Unclassified	chr11:99854547-99857308	0.762
Krtap16-5	0	0	0	0	0	0	0	Unclassified	chr16:88877757-88880283	0.527
Lpar4	0	0	0	3	0.05	0.181407	0	Unclassified	chrX:104113963-104129238	13.276
Shroom1	0	0	0	23	0.383333	0.396021	1.495304	Unclassified	chr11:53268706-53281257	10.552
Olfr476	0	0	0	1	0.016667	0	1	Unclassified	chr7:115108912-11511845	0.934
Olfr481	0	0	0	0	0	0.027298	0	Unclassified	chr7:115222309-115225248	0.94
Olfr376	0	0	0	1	0.016667	0.067108	0	Unclassified	chr11:73186252-73189206	0.955
Olfr20	0	0	0	1	0.016667	0.054185	1	Unclassified	chr11:73165256-73168201	0.946
Cntnap5c	0	0	0	280	4.666667	0.026169	1.395707	Unclassified	chr17:57906992-58549765	640.774
Olfr477	0	0	0	1	0.016667	0.020589	1	Unclassified	chr7:115131880-115134813	0.934
Olfr799	0	0	0	1	0.016667	0	1	Unclassified	chr10:129082185-129085121	0.937
38783	0	0	0	93	1.55	1.24166	8.232232	Unclassified	chr6:116286140-116359558	71.419
Zfp367	0	0	0	839	13.98333	5.88955	18.30607	Unclassified	chr13:64234364-64256507	20.144
Gpr165	0	0	0	3	0.05	0.044139	0.831138	Unclassified	chrX:93906806-93914727	5.922
Stard3nl	0	0	0	262	4.366667	4.54133	32.57467	Stalled	chr13:19449544-19489621	38.078
1700030F18Rik	0	0	0	20	0.333333	0.298491	0.420033	Unclassified	chr15:99748778-99764089	13.312
2200002D01Rik	0	0	0	55	0.916667	2.11156	36	Unclassified	chr7:30032539-30035486	0.948
Defb29	0	0	0	4	0.066667	0	2	Unclassified	chr2:152364449-152367777	1.329
Csgalnact1	0	0	0	327	5.45	0.400408	2.705636	Unclassified	chr8:70880681-71261041	378.361
Atp13a5	0	0	0	106	1.766667	0.019783	1.758138	Unclassified	chr16:29231999-29380818	146.82
Npy	0	0	0	10	0.166667	0.070549	4.607656	Unclassified	chr6:49770727-49779504	6.778
Zmym4	0	0	0	602	10.03333	2.82332	20.25739	Stalled	chr4:126539064-126647167	106.104
Morn4	0	0	0	48	0.8	1.36209	8.570466	Unclassified	chr19:42149428-42162860	11.433
Ift81	0	0	0	140	2.333333	0.312805	10.59431	Stalled	chr5:123000212-123066527	64.316
Ilf2	0	0	0	354	5.9	29.0074	8.958515	Unclassified	chr3:90278122-90292301	12.18
Ubttd1	0	0	0	390	6.5	3.12202	25.54024	Stalled	chr19:42054252-42109131	52.88
Cdo1	0	0	0	39	0.65	0.636395	6.356852	Unclassified	chr18:46872858-46889996	15.139
Cdkn2c	0	0	0	97	1.616667	11.2848	14.27412	Stalled	chr4:109333480-109339977	4.498
Mia1	0	0	0	66	1.1	0.406867	0.562469	Unclassified	chr7:27964759-27968168	1.41
6330577E15Rik	0	0	0	277	4.616667	30.1046	20.70832	Stalled	chr19:47804245-47810078	3.834
Cdr2	0	0	0	319	5.316667	3.61818	43.67962	Stalled	chr7:128100549-128127826	25.278
Cox17	0	0	0	348	5.8	141.631	8.64278	Unclassified	chr16:38345084-38352849	5.766
Usp28	0	0	0	993	16.55	3.21555	11.99772	Unclassified	chr9:48791489-48850622	57.134
Mmp3	0	0	0	7	0.116667	0.028481	0.69591	Unclassified	chr9:7443821-7455974	10.154
Foxd3	0	0	0	13	0.216667	0.137193	1.293379	Unclassified	chr4:99320989-99325362	2.374
Cyp2d11	0	0	0	10	0.166667	0.06786	0.300699	Unclassified	chr15:82219583-82226452	4.87
Tmem106a	0	0	0	101	1.683333	0.801755	6.195862	Unclassified	chr11:101441555-101453099	9.545
Rundc1	0	0	0	302	5.033333	7.73273	12.18429	Unclassified	chr11:101284398-101296977	10.58
Gbp8	0	0	0	54	0.9	1.80253	5.388471	Unclassified	chr5:105443171-105484580	39.41
Zfp13	0	0	0	281	4.683333	1.36578	27.72933	Stalled	chr17:23712818-23738454	23.637
Adam9	0	0	0	1186	19.76667	9.70757	15.72356	Unclassified	chr8:26060082-26129394	67.313
Dkc1	0	0	0	483	8.05	22.3837	12.33309	Unclassified	chrX:72339192-72355115	13.924
Tnrc4	0	0	0	136	2.266667	0.102755	0.536151	Unclassified	chr3:94280752-94296115	13.364
Mkrn3	0	0	0	15	0.25	0.216233	1.953136	Unclassified	chr7:69562478-69567025	2.548
Lnx1	0	0	0	243	4.05	0.116831	0	Unclassified	chr5:74988471-75100928	110.458
Zfp617	0	0	0	295	4.916667	1.33669	16.9027	Unclassified	chr8:74444723-74458529	11.807
Gpr111	0	0	0	27	0.45	0.031231	1.126546	Unclassified	chr17:42845885-42881128	33.244
Neil2	0	0	0	75	1.25	0.394884	22.03336	Stalled	chr14:63801281-63814362	11.082
Cgnl1	0	0	0	167	2.783333	0.068313	1.88301	Unclassified	chr9:71474315-71621409	145.095
Wbp4	0	0	0	675	11.25	8.09107	40.97507	Unclassified	chr14:79859743-79883075	21.333
Wbp5	0	0	0	64	1.066667	23.6004	9.452896	Unclassified	chrX:132777618-132781678	2.061
Itgb1bp2	0	0	0	167	2.783333	0.247802	2.072749	Elongating	chrX:98642447-98648880	4.434
Eif4h	0	0	0	1699	28.31667	150.669	5.436701	Unclassified	chr5:135095745-135117198	19.454
Baz1b	0	0	0	1768	29.46667	27.0643	12.37161	Unclassified	chr5:135661192-135721999	58.808
Wfdc12	0	0	0	2	0.033333	0.017678	0	Unclassified	chr2:164014966-164018294	1.329
Tars	0	0	0	556	9.266667	32.5832	10.36839	Unclassified	chr15:11313417-11331413	15.997
Esx1	0	0	0	5	0.083333	0.448571	0.49565	Unclassified	chrX:133649935-133656865	4.931
Tmc7	0	0	0	97	1.616667	0.111835	4.387882	Unclassified	chr7:125679357-125730200	48.844
Esr1	0	0	0	471	7.85	0.459951	14.49396	Stalled	chr10:5342779-5736495	391.717
Esr2	0	0	0	59	0.983333	0.344709	3.135958	Unclassified	chr12:77221405-77280246	56.842
Gm757	0	0	0	11	0.183333	0.050733	1.217714	Unclassified	chr2:25089995-25094307	2.313
Ipp	0	0	0	483	8.05	5.34215	80.61115	Stalled	chr4:116178153-116210840	30.688
Ly6g5b	0	0	0	96	1.6	0.352297	1.439824	Unclassified	chr17:35250889-35254345	1.457
Armc4	0	0	0	90	1.5	0.014744	0	Unclassified	chr18:7088230-7299899	209.67
Olfr701	0	0	0	5	0.083333	0.025105	0	Unclassified	chr7:113955657-113964223	6.567

4933433P14Rik	0	0	0	388	6.466667	3.2147	20.17196	Unclassified	chr12:106921561-106941267	17.707
4933439F11Rik	0	0	0	3	0.05	0	1	Unclassified	chr11:102744482-102748045	1.564
4933436I01Rik	0	0	0	1	0.016667	0	1	Unclassified	chrX:65173038-65176625	1.588
B230118H07Rik	0	0	0	63	1.05	0.513852	1.584984	Unclassified	chr2:101400937-101471143	68.207
Trap1a	0	0	0	2	0.033333	0	0	Unclassified	chrX:135866221-135872704	4.484
Smr3a	0	0	0	5	0.083333	0.057992	0.556098	Unclassified	chr5:88429549-88437559	6.011
Tabppl	0	0	0	479	7.983333	22.3994	8.477485	Unclassified	chr6:125174238-125183878	7.641
Gpx6	0	0	0	11	0.183333	0.101556	0.391098	Unclassified	chr13:21402071-21411493	7.423
Zbtb34	0	0	0	231	3.85	1.06371	21.4721	Stalled	chr2:33261627-33288844	25.218
9030224M15Rik	0	0	0	103	1.716667	0.175793	1.692188	Unclassified	chr10:40401087-40530889	127.803
Pof1b	0	0	0	13	0.216667	0.016473	0	Unclassified	chrX:109752035-109814260	60.226
Hddc2	0	0	0	360	6	8.58537	39.86071	Stalled	chr10:31031210-31047892	14.683
Wisp3	0	0	0	78	1.3	0.343456	0.136193	Unclassified	chr10:38870776-38885600	12.825
2310057J16Rik	0	0	0	310	5.166667	0.570261	0.511453	Unclassified	chr8:3585449-3609074	21.626
2310057N15Rik	0	0	0	0	0	0.022768	0	Unclassified	chr16:88773425-88776451	1.027
2310046K01Rik	0	0	0	45	0.75	0.442763	3.847478	Unclassified	chr2:151820246-151834993	12.748
Bub1	0	0	0	252	4.2	6.08817	16.63213	Stalled	chr2:127625935-127659595	31.661
Olfr1329	0	0	0	2	0.033333	0.002801	1	Unclassified	chr4:118589129-118592070	0.942
Olfr506	0	0	0	0	0	0.029914	0	Unclassified	chr7:115753822-115756767	0.946
Olfr1034	0	0	0	0	0	0.020589	0	Unclassified	chr2:85884640-85887573	0.934
Olfr94	0	0	0	4	0.066667	0.187664	2	Unclassified	chr17:37333750-37336911	1.162
Rit2	0	0	0	135	2.25	0	1.439783	Unclassified	chr18:31133967-31478782	342.816
Ring1	0	0	0	373	6.216667	11.4895	11.48499	Unclassified	chr17:34157738-34163625	3.888
Igf1	0	0	0	63	1.05	0.088243	1.132308	Unclassified	chr10:87319800-87399792	77.993
Ripk1	0	0	0	667	11.11667	5.08958	29.13267	Unclassified	chr13:34092742-34127039	32.298
Cyr61	0	0	0	9	0.15	0.107435	0.502994	Unclassified	chr3:145309934-145314949	3.016
Igfals	0	0	0	168	2.8	0.036427	0.229759	Unclassified	chr17:25013714-25018953	3.24
Cdc42ep2	0	0	0	49	0.816667	0.152043	1.104092	Unclassified	chr19:5917560-5920993	1.434
Igfbp3	0	0	0	9	0.15	0.063031	1.154834	Unclassified	chr11:7106095-7115926	7.832
Gpr3	0	0	0	30	0.5	0.239056	1.492653	Unclassified	chr4:132765254-132770451	3.198
Aldh1a3	0	0	0	70	1.166667	0.101777	0.700608	Unclassified	chr7:73535778-73574363	36.586
Milt10	0	0	0	2652	44.2	6.79367	2.640164	Elongating	chr2:17974897-18134017	157.121
Usp51	0	0	0	50	0.833333	1.62686	0.306272	Unclassified	chrX:149439011-149444000	2.99
Milt4	0	0	0	132	2.2	0.508367	4.367145	Unclassified	chr17:13895547-14042801	145.255
Olfr498	0	0	0	3	0.05	0.051627	1	Unclassified	chr7:115606839-115609832	0.994
Olfr47	0	0	0	1	0.016667	0	0	Unclassified	chr6:43183608-43186574	0.967
Rasa2	0	0	0	1499	24.98333	7.45722	21.79406	Unclassified	chr9:96439718-96533922	92.205
Dus3l	0	0	0	504	8.4	19.257	6.922026	Unclassified	chr17:56902173-56909515	5.343
Epyc	0	0	0	11	0.183333	0.104137	0	Unclassified	chr10:97104701-97144534	37.834
Dsg2	0	0	0	44	0.733333	0.071587	2.72215	Unclassified	chr18:20714616-20763027	46.412
Dsg1a	0	0	0	8	0.133333	0.008691	0.818097	Unclassified	chr18:20467373-20501854	32.482
Kel	0	0	0	14	0.233333	0.524675	1.172328	Unclassified	chr6:41636328-41656324	17.997
Katna1	0	0	0	371	6.183333	6.57005	26.24722	Stalled	chr10:7443797-7482948	37.152
Sh2b2	0	0	0	442	7.366667	4.67012	5.79015	Unclassified	chr5:136694018-136722773	26.756
Olfr1449	0	0	0	0	0	0.060762	0	Unclassified	chr19:13007229-13010174	0.946
2700078K21Rik	0	0	0	610	10.16667	10.9659	19.38254	Unclassified	chr7:149194457-149248939	52.483
Lamc3	0	0	0	112	1.866667	0.11887	2.528849	Unclassified	chr2:31740800-31802055	59.256
Ubox5	0	0	0	679	11.31667	3.83066	13.76894	Unclassified	chr2:130415737-130457722	39.986
Cck	0	0	0	14	0.233333	0	0.6522	Unclassified	chr9:121398942-121406780	5.839
2700007P21Rik	0	0	0	266	4.433333	5.89946	16.32465	Unclassified	chr2:106802685-106816554	11.87
Tcp1l1l	0	0	0	92	1.533333	0.450472	14.59637	Stalled	chr2:104520136-104554319	32.184
Hoxd13	0	0	0	12	0.2	0.118765	2.668998	Unclassified	chr2:74504366-74509655	3.29
Zdhhc3	0	0	0	1301	21.68333	5.34085	16.65076	Unclassified	chr9:122981427-123024323	40.897
4930579G22Rik	0	0	0	57	0.95	5.29244	8.225416	Unclassified	chr5:130382409-130387150	2.742
Zg16	0	0	0	5	0.083333	0	0.215276	Unclassified	chr7:134193669-134197491	1.823
Serpinb6a	0	0	0	44	0.733333	2.6594	2.494654	Unclassified	chr13:34009788-34029952	18.165
Lyz14	0	0	0	100	1.666667	0.051471	1.20838	Unclassified	chr9:121486960-121552684	63.725
Serpina3m	0	0	0	9	0.15	0.02566	0.465445	Unclassified	chr12:105623373-105632467	7.095
Serpina3n	0	0	0	12	0.2	0.189137	0.375816	Unclassified	chr12:105642917-105652539	7.623
Serpina3g	0	0	0	437	7.283333	11.6339	1.52593	Elongating	chr12:105450753-105480144	27.392
Serpina3k	0	0	0	4	0.066667	0	0.675851	Unclassified	chr12:105574695-105583949	7.255
Stfa1	0	0	0	4	0.066667	0.061249	0.706601	Unclassified	chr16:36275233-36285457	8.225
Syne1	0	0	0	540	9	0	47.44693	Stalled	chr10:5149833-5326342	174.51
Serpinb9e	0	0	0	3	0.05	0.013343	0	Unclassified	chr13:33339478-33352715	11.238
Ccna2	0	0	0	551	9.183333	25.5521	8.127542	Unclassified	chr3:36463786-36472918	7.133
Olfr510	0	0	0	2	0.033333	0	2	Unclassified	chr7:115808931-115811876	0.946
Ccdc42	0	0	0	16	0.266667	0	0	Unclassified	chr11:68398538-68411453	10.916
Bcap3l	0	0	0	429	7.15	41.8358	33.50529	Stalled	chrX:70931521-70963514	29.994
Ptpn14	0	0	0	286	4.766667	0.262368	1.037179	Unclassified	chr1:191550146-191700572	148.427
Kdm4d	0	0	0	445	7.416667	2.67984	33.0705	Stalled	chr9:14267024-14306926	37.903
Nav3	0	0	0	151	2.516667	0.052701	0	Unclassified	chr10:109120494-109439275	316.782
Cadps	0	0	0	294	4.9	0.021056	0	Unclassified	chr14:13205076-13657593	450.518
Fbxo9	0	0	0	492	8.2	5.32808	35.49216	Unclassified	chr9:77929305-77958463	27.159
Ptgr1	0	0	0	69	1.15	3.06956	7.997398	Unclassified	chr4:58978461-59001950	21.49
Ddi1	0	0	0	3	0.05	0.025295	0.342538	Unclassified	chr9:6265027-6268547	1.521
Xpo6	0	0	0	2057	34.28333	23.312	14.65076	Unclassified	chr7:133245232-133345922	98.691
Gtf2a1l	0	0	0	39	0.65	0.055413	2.86142	Unclassified	chr17:89065999-89114490	46.492
Cep97	0	0	0	194	3.233333	1.16268	10.84577	Stalled	chr16:55900000-55936961	34.962
Fblim1	0	0	0	156	2.6	0.794546	0	Unclassified	chr4:141131976-141163967	29.992
Eif4enif1	0	0	0	1652	27.53333	20.2914	13.91583	Unclassified	chr11:3100585-3144590	42.006
Pogz	0	0	0	860	14.33333	4.1994	12.73973	Unclassified	chr3:94639488-94687487	46
Cenpl	0	0	0	239	3.983333	8.79092	21.41445	Stalled	chr1:162999022-163016472	15.451
Hp	0	0	0	16	0.266667	0.781102	0.379658	Unclassified	chr8:112099027-112105072	4.046
Usp53	0	0	0	556	9.266667	1.52284	108.4074	Stalled	chr3:122636518-122689365	50.848
Cpxm1	0	0	0	25	0.416667	0.23832	0.512361	Unclassified	chr2:130216511-130225365	6.855
Zfp704	0	0	0	364	6.066667	0.176796	4.465391	Unclassified	chr3:9427009-9612085	183.077

Gas8	0	0	0	171	2.85	7.28505	6.112234	Unclassified	chr8:126040734-126060550	17.817
Serpinb9g	0	0	0	4	0.066667	0.028011	1.6724	Unclassified	chr13:33574658-33587867	11.21
9030418K01Rik	0	0	0	11	0.183333	0.096236	1.945557	Unclassified	chr2:178147238-178156886	7.629
Bri3bp	0	0	0	609	10.15	11.1459	7.123472	Unclassified	chr5:125919937-125941255	19.319
Elttd1	0	0	0	66	1.1	0.059306	1.255324	Unclassified	chr3:151098845-151208045	107.201
4930430F08Rik	0	0	0	69	1.15	3.24977	14.17448	Stalled	chr10:100034907-100053893	16.987
Git25d2	0	0	0	95	1.583333	0.278135	1.104758	Unclassified	chr1:154244996-154357824	110.829
Mycl1	0	0	0	28	0.466667	1.20309	1.756949	Unclassified	chr4:122671341-122679723	6.383
Tex21	0	0	0	43	0.716667	0.038837	0.528397	Unclassified	chr12:77299676-77349733	48.058
Lmx1b	0	0	0	158	2.633333	0.094624	1.321314	Unclassified	chr2:33420055-33498031	75.977
Lmo4	0	0	0	643	10.71667	15.0927	21.56913	Unclassified	chr3:143851494-143870219	16.726
Brs3	0	0	0	5	0.083333	0.018494	0	Unclassified	chrX:54294250-54301935	5.686
Ptplad1	0	0	0	795	13.25	12.3998	19.48873	Unclassified	chr9:64834789-64871524	34.736
Ndst3	0	0	0	93	1.55	0.043217	0.612187	Unclassified	chr3:123229083-123377310	146.228
Akr1c18	0	0	0	15	0.25	0	1.758877	Unclassified	chr13:4131872-4151877	18.006
Fam196a	0	0	0	59	0.983333	0.055279	0.506957	Unclassified	chr7:142073590-142132113	56.524
Defb42	0	0	0	0	0	0	0	Unclassified	chr14:63663827-63667437	1.611
Fam135b	0	0	0	133	2.216667	0.005545	1.367646	Unclassified	chr15:71276107-71560268	282.162
Lman1	0	0	0	490	8.166667	23.4089	11.61587	Unclassified	chr18:66140407-66164266	21.86
Bag5	0	0	0	406	6.766667	10.7141	11.89297	Unclassified	chr12:112948068-112953468	3.401
Acn9	0	0	0	236	3.933333	11.4628	66.3536	Stalled	chr6:6904017-6989220	83.204
Mrps6	0	0	0	810	13.5	0	34.67929	Unclassified	chr16:92056580-92112472	53.893
38963	0	0	0	128	2.133333	0.28593	0	Unclassified	chr11:87392632-87404041	9.41
Pnp1	0	0	0	240	4	15.6309	31.50672	Stalled	chr14:51561977-51573087	9.111
38964	0	0	0	45	0.75	0	1.63973	Unclassified	chr16:18621903-18632031	8.129
H2-M10.1	0	0	0	3	0.05	0.036961	0	Unclassified	chr17:36459804-36465095	3.292
Kcnh1	0	0	0	347	5.783333	0.068964	2.417544	Unclassified	chr1:194012753-194334040	319.288
F830045P16Rik	0	0	0	58	0.966667	0.033289	1.765667	Unclassified	chr2:129284094-129364338	78.245
Hnf1a	0	0	0	160	2.666667	0.084477	0.117079	Unclassified	chr5:115398988-115423071	22.084
Tcf12	0	0	0	1645	27.41667	7.26078	21.9601	Unclassified	chr9:71692058-71961626	267.569
Clec12b	0	0	0	7	0.116667	0.016853	1.285204	Unclassified	chr6:129325532-129337521	9.99
Tcea2	0	0	0	390	6.5	3.34857	3.320562	Unclassified	chr2:181413014-181442756	7.743
Tcea3	0	0	0	70	1.166667	0.708878	1.750135	Unclassified	chr4:135801871-135830814	26.944
Abhd10	0	0	0	320	5.333333	2.988	17.95386	Unclassified	chr16:45730509-45745019	12.511
Dsg1c	0	0	0	7	0.116667	0.004423	0	Unclassified	chr18:20403840-20442424	36.585
Prok1	0	0	0	3	0.05	0	0.760651	Unclassified	chr3:107038448-107044625	4.178
I8300120I6Rik	0	0	0	3	0.05	0.225471	0.68973	Unclassified	chr19:34680446-34687891	5.446
Trpc1	0	0	0	43	0.716667	0.72762	6.552829	Unclassified	chr9:95607047-95652777	43.731
Rgs1	0	0	0	36	0.6	1.19554	6.393272	Unclassified	chr1:146091799-146098234	4.436
Cpeb4	0	0	0	280	4.666667	4.45658	2.5012	Unclassified	chr11:31770210-31831577	59.368
Alg13	0	0	0	130	2.166667	0.911923	25.46391	Stalled	chrX:140750508-140759740	7.233
Rgs6	0	0	0	393	6.55	0.021957	1.160742	Unclassified	chr12:83716024-84259799	541.776
Loxl4	0	0	0	194	3.233333	0.214526	1.71539	Elongating	chr19:42666769-42689296	20.528
Cxcr1	0	0	0	5	0.083333	0	2.595012	Unclassified	chr1:74238359-74243205	2.847
Snx10	0	0	0	450	7.5	3.25886	2.006094	Unclassified	chr6:51471901-51540669	66.769
Asb5	0	0	0	43	0.716667	0.0487	0.954344	Unclassified	chr8:55633683-55673189	37.507
Esco2	0	0	0	271	4.516667	4.82706	32.16118	Stalled	chr14:66437863-66454806	14.944
Rpusd4	0	0	0	486	8.1	13.6688	23.00327	Unclassified	chr9:35073465-35083542	8.078
Rhoj	0	0	0	68	1.133333	0.135881	0	Unclassified	chr12:76407299-76502442	93.144
Gm14124	0	0	0	3	0.05	0.024446	0	Unclassified	chr2:150081252-150096036	12.785
Chn1	0	0	0	125	2.083333	0.341653	2.332668	Unclassified	chr2:73448716-73615403	164.688
Tm2d3	0	0	0	292	4.866667	16.1368	17.48145	Unclassified	chr7:72836302-72846799	8.498
Krtap5-4	0	0	0	2	0.033333	0	2	Unclassified	chr7:149487406-149490408	1.003
Cryl1	0	0	0	530	8.833333	5.26111	44.14556	Stalled	chr14:57893870-58019320	123.451
Myct1	0	0	0	10	0.166667	0.050767	0.667829	Unclassified	chr10:4739751-4754813	13.063
Fgf9	0	0	0	53	0.883333	0.142472	2.350515	Unclassified	chr14:58689522-58731556	40.035
Fgfr2	0	0	0	109	1.816667	0.060703	1.984248	Unclassified	chr7:137305964-137412322	104.359
Fgfr3	0	0	0	72	1.2	0.229887	1.084509	Unclassified	chr5:34062372-34079712	15.341
Akr1b8	0	0	0	13	0.216667	0.172798	1.094352	Unclassified	chr6:34302163-34318454	14.292
Fgfr4	0	0	0	30	0.5	0.032591	1.459883	Unclassified	chr13:55252178-55270120	15.943
Rab13	0	0	0	22	0.366667	1.4001	1.541243	Unclassified	chr3:90022738-90029885	5.148
Vmn2r53	0	0	0	10	0.166667	0.012765	0	Unclassified	chr7:13166818-13193893	25.076
Gcap14	0	81.827	0	594	9.9	2.96309	26.58132	Stalled	chr14:37688121-37783950	93.83
B3gat3	0	0	0	325	5.416667	22.8848	12.41793	Unclassified	chr19:8992882-9001726	6.845
Arap3	0	0	0	44	0.733333	0.090757	0.726366	Unclassified	chr18:38132276-38159228	24.953
0610007P22Rik	0	0	0	160	2.666667	16.0591	8.267655	Unclassified	chr17:25375114-25379743	2.63
Klk13	0	0	0	18	0.3	0	1.455485	Unclassified	chr7:50965936-50982128	14.193
Clec3a	0	0	0	10	0.166667	0	0.982706	Unclassified	chr8:116939985-116949746	7.762
5730559C18Rik	0	0	0	35	0.583333	0.525311	5.079794	Unclassified	chr1:138110107-138132841	20.735
Pri8a9	0	0	0	1	0.016667	0	0	Unclassified	chr13:27649869-27658473	6.605
Nanp	0	0	0	312	5.2	3.22868	33.8397	Stalled	chr2:150855421-150867115	9.695
1700022I11Rik	0	0	0	38	0.633333	0.055243	0.50454	Unclassified	chr4:42980831-42987197	4.367
Ceacam12	0	0	0	5	0.083333	0.08691	1.239062	Unclassified	chr7:18649277-18657161	5.885
Omg	0	0	0	16	0.266667	0.069091	0.83231	Unclassified	chr11:79314483-79319584	3.102
Olfir8	0	0	0	0	0	0	0	Unclassified	chr10:78415951-78418884	0.934
Olfir9	0	0	0	1	0.016667	0.088605	1	Unclassified	chr10:128424969-128427908	0.94
Gas1	0	0	0	5	0.083333	0.061401	0	Unclassified	chr13:60275765-60280896	3.132
BC027231	0	0	0	731	12.18333	4.4787	19.33919	Unclassified	chr16:44722411-44737243	12.833
1700110M21Rik	0	0	0	2	0.033333	0.013766	0.580008	Unclassified	chr14:101596906-101601286	2.381
Gast	0	0	0	11	0.183333	0.084503	1.045347	Unclassified	chr11:100193725-100198310	2.586
Rspo2	0	0	0	75	1.25	0.049884	4.828955	Unclassified	chr15:42852340-43004364	150.025
Ndn	0	0	0	4	0.066667	0.077628	0.789346	Unclassified	chr7:69491162-69494813	1.652
Ndp	0	0	0	6	0.1	0	0	Unclassified	chrX:16462647-16490890	26.244
Hyal1	0	0	0	28	0.466667	0.117851	1.150234	Unclassified	chr9:107477282-107482464	3.183
I120ra	0	0	0	37	0.616667	0.141176	3.599009	Unclassified	chr10:19430392-19479859	47.468
I122ra2	0	0	0	25	0.416667	0.025965	1.472753	Unclassified	chr10:19339833-19354487	12.655

Tpte	0	0	0	134	2.233333	0.05028	0.798049	Unclassified	chr8:23391912-23481890	87.979
Isg2012	0	0	0	613	10.21667	11.1848	11.49952	Unclassified	chr3:87732235-87744608	10.374
BC023814	0	0	0	599	9.983333	9.05165	8.457495	Unclassified	chr3:87726524-87736117	7.594
Olf1385	0	0	0	0	0	0.08464	0	Unclassified	chr11:49306036-49308966	0.931
Olf1211	0	0	0	3	0.05	0	2	Unclassified	chr2:88769534-88772470	0.937
Cntnap4	0	0	0	192	3.2	0.042281	0	Unclassified	chr8:115091942-115406607	312.666
Zdhhc22	0	0	0	17	0.283333	0.097093	0.222677	Unclassified	chr12:88324330-88331626	5.297
Erb4	0	0	0	417	6.95	0.027096	2.165818	Unclassified	chr1:68086539-69156633	1068.095
Olf1213	0	0	0	1	0.016667	0.032515	0	Unclassified	chr6:116488472-116491456	0.985
Erb3	0	0	0	86	1.433333	1.09973	2.171101	Unclassified	chr10:128006423-128028557	20.135
Erb2	0	0	0	110	1.833333	0.179531	1.354568	Unclassified	chr11:98271797-98299030	25.234
Nr2f1	0	0	0	30	0.5	0.229409	0.545851	Unclassified	chr13:78328235-78340243	10.009
Lcn5	0	0	0	4	0.066667	0.055322	1.532383	Unclassified	chr2:25511474-25517750	4.277
Gm7534	0	0	0	24	0.4	0.0822	1.647232	Unclassified	chr4:133746718-133760919	12.202
Epx	0	0	0	37	0.616667	0.052389	0.253731	Unclassified	chr11:87677499-87691038	11.54
Eps8	0	0	0	1528	25.46667	1.85121	5.451702	Unclassified	chr6:137425765-137599641	171.877
AU021034	0	0	0	4	0.066667	0.108807	0	Unclassified	chr14:78480830-78490814	7.985
Dusp26	0	0	0	17	0.283333	0.242094	0.626576	Unclassified	chr8:32198133-32207519	7.387
Gm410	0	0	0	47	0.783333	0.152807	0	Unclassified	chr3:57471343-57498459	25.117
Sp7	0	0	0	20	0.333333	0.29179	0.335989	Unclassified	chr15:102187607-102198702	9.096
Nms	0	0	0	11	0.183333	0.076821	0.558718	Unclassified	chr1:3893993-39007121	11.129
AU022252	0	0	0	235	3.916667	5.4941	19.67395	Stalled	chr4:118897743-118907329	7.587
I128a	0	0	0	2	0.033333	0.065907	1	Unclassified	chr7:29293879-29297379	1.501
Serpinb11	0	0	0	13	0.216667	0.02263	0	Unclassified	chr1:109256890-109277052	18.163
Ptprq	0	0	0	86	1.433333	0.023606	0	Unclassified	chr10:106954415-107159083	202.669
Fam188b	0	0	0	152	2.533333	0.177849	1.776423	Unclassified	chr6:55151376-55270216	116.841
Nlrp9c	0	0	0	11	0.183333	0.012731	0	Unclassified	chr7:27149905-27181262	29.358
Cx3cr1	0	0	0	65	1.083333	0.042958	0.709661	Unclassified	chr9:119957810-119979400	19.591
Tmem17	0	0	0	151	2.516667	2.78752	24.08617	Stalled	chr11:22410285-22419234	6.95
Tubg2	0	0	0	47	0.783333	3.88635	9.558853	Unclassified	chr11:101015197-101023100	5.904
Fez1	0	0	0	17	0.283333	0.029921	0.679891	Unclassified	chr9:36649243-36686225	34.983
Zfp598	0	0	0	378	6.3	16.5974	15.5181	Unclassified	chr17:24804696-24818961	12.266
Fmrip3	0	0	0	2	0.033333	0.024482	0	Unclassified	chrX:136914509-136929079	12.571
Dtd1	0	0	0	611	10.18333	11.7161	32.58697	Stalled	chr2:144423688-144594483	168.796
Mrpl54	0	0	0	276	4.6	85.4252	2.577964	Elongating	chr10:80727466-80731671	2.206
Sostdc1	0	0	0	20	0.333333	3.74694	0.485827	Unclassified	chr12:37038755-37045039	4.285
Nalcn	0	0	0	134	2.233333	0.025218	2.915548	Unclassified	chr14:123675862-124028366	350.505
Tmem93	0	0	0	332	5.533333	32.8706	14.93386	Unclassified	chr11:72989006-72992544	1.539
I128b	0	0	0	1	0.016667	0.087316	0	Unclassified	chr7:29305854-29309341	1.488
Atp6v1g3	0	0	0	25	0.416667	0.03396	0.380261	Unclassified	chr1:140168314-140186039	15.726
Got111	0	0	0	11	0.183333	0.047258	1.106402	Unclassified	chr8:28307930-28315019	5.09
Gpr82	0	0	0	6	0.1	0.046194	0.503574	Unclassified	chrX:13236488-13244559	6.072
Ccne1	0	0	0	580	9.666667	18.7114	11.35804	Unclassified	chr7:38883002-38894509	9.508
Ccnd3	0	0	0	642	10.7	76.474	2.075662	Elongating	chr17:47728415-47736637	6.223
Ccnb2	0	0	0	378	6.3	20.9485	8.488106	Unclassified	chr9:70255495-70271361	13.867
Tbc1d23	0	0	0	465	7.75	2.56258	16.8859	Unclassified	chr16:57168976-57233579	62.604
Micall1	0	0	0	718	11.96667	5.92232	8.152696	Unclassified	chr15:78937412-78967331	27.92
Efcab9	0	0	0	32	0.533333	0	1.128256	Unclassified	chr11:32422732-32429574	4.843
Klrk1	0	0	0	8	0.133333	0.036487	0.64143	Unclassified	chr6:129560338-129575859	13.522
953008L14Rik	0	0	0	410	6.833333	0.036768	0.854403	Unclassified	chr13:41858516-41944985	84.47
Cdc42	0	0	0	1207	20.11667	71.7982	12.06581	Unclassified	chr4:136875610-136915652	38.043
Bag2	0	0	0	229	3.816667	5.96624	6.958153	Unclassified	chr1:33802328-33816595	12.268
Fbxw11	0	0	0	1285	21.41667	7.06284	18.71756	Unclassified	chr11:32540874-32646814	103.941
Ptpla	0	0	0	99	1.65	3.56882	12.10772	Stalled	chr2:13948457-13979662	29.206
Zfp532	0	0	0	181	3.016667	0.059026	1.523921	Unclassified	chr18:65737883-65848587	108.705
Spink10	0	0	0	383	6.833333	2.26968	123.108	Stalled	chr18:62706564-62821042	112.479
Fam20b	0	0	0	328	5.466667	6.3833	13.29382	Unclassified	chr1:158608701-158651041	40.341
Olf1354	0	0	0	4	0.066667	0	1	Unclassified	chr2:36760467-36763421	0.955
Cox5a	0	0	0	552	9.2	103.598	24.12223	Unclassified	chr9:57367038-57380233	11.196
Marveld3	0	0	0	40	0.666667	1.15317	1.436054	Unclassified	chr8:112471809-112488105	14.297
Olf1352	0	0	0	1	0.016667	0	0	Unclassified	chr2:36723087-36726035	0.949
Yipf7	0	0	0	11	0.183333	0.032148	0	Unclassified	chr5:69907916-69935871	25.956
Steap2	0	0	0	18	0.3	0.035467	0	Unclassified	chr5:5664830-5696568	29.739
Grip1	0	0	0	577	9.616667	0.085234	2.087994	Unclassified	chr10:118889369-119512649	621.281
Olf1353	0	0	0	3	0.05	0	2	Unclassified	chr2:36745430-36748366	0.937
P1ce1	0	0	0	247	4.116667	0.052565	1.033615	Unclassified	chr19:38596686-38859590	260.905
4931406B18Rik	0	0	0	21	0.35	0.087164	0.834801	Unclassified	chr7:50747413-50763308	13.896
Olf1351	0	0	0	2	0.033333	0.08242	0	Unclassified	chr2:36714933-36717866	0.934
Olf1467	0	0	0	1	0.016667	0	1	Unclassified	chr7:114956099-114959020	0.922
Olf1347	0	0	0	1	0.016667	0.049368	1	Unclassified	chr2:36587842-36590781	0.94
Fgfbp3	0	0	0	70	1.166667	5.37805	4.993863	Unclassified	chr19:36992039-36996089	2.051
Pigt	0	0	0	519	8.65	31.1082	17.0664	Unclassified	chr2:164321024-164333801	10.778
Gm5878	0	0	0	19	0.316667	0.046887	0	Unclassified	chr6:85061409-85078088	14.68
Srd5a1	0	0	0	275	4.583333	4.72604	18.12733	Stalled	chr13:69712326-69752341	38.016
9130019O22Rik	0	0	0	104	1.733333	3.93859	7.200173	Unclassified	chr7:134525773-134532680	4.908
D1st	0	0	0	900	15	43.2584	11.14412	Unclassified	chr12:86449782-86475041	23.26
Chsy3	0	0	0	148	2.466667	0.165074	1.233592	Unclassified	chr18:59332993-59570990	235.998
Tmem55a	0	0	0	253	4.216667	2.99032	23.96254	Stalled	chr4:14789365-14842407	51.043
Znhit3	0	0	0	213	3.55	0	5.049566	Unclassified	chr11:84724456-84731858	5.403
Olf1016	0	0	0	2	0.033333	0	2	Unclassified	chr2:85639496-85642425	0.93
Fam193a	0	0	0	482	8.033333	7.71184	0.974084	Unclassified	chr5:34761499-34829105	65.607
BC023882	0	0	0	447	7.45	7.17839	36.68003	Unclassified	chr5:34496547-34514073	15.527
Nmd3	0	0	0	810	13.5	13.1389	16.8767	Unclassified	chr3:69523976-69552968	26.993
Olf141	0	0	0	0	0	0	0	Unclassified	chr2:86646177-86649154	0.978
Utp14b	0	0	0	440	7.333333	0	21.23174	Unclassified	chr1:78652399-78664175	9.777
Olf1671	0	0	0	1	0.016667	0	0	Unclassified	chr7:112123555-112126497	0.943

Stmn4	0	0	0	26	0.433333	0.031209	0.414862	Unclassified	chr14:66961211-66980517	17.307
Tbpl2	0	0	0	16	0.266667	0	2.053791	Unclassified	chr2:23927240-23954115	24.876
Anapc7	0	0	0	519	8.65	16.4474	7.811883	Unclassified	chr5:122870452-122894918	22.467
Ptp4a2	0	196.5844	0	1615	26.91667	39.7104	10.37284	Unclassified	chr4:129495722-129527247	29.526
Keg1	0	0	0	19	0.316667	0.030809	0.606361	Unclassified	chr19:12768279-12794384	24.106
Tmsb4x	0	0	0	794	13.23333	552.212	2.447508	Elongating	chrX:163645025-163649150	2.126
Tmsb10	0	0	0	348	5.8	560.974	317	Unclassified	chr6:72907346-72910393	1.048
Parp11	0	0	0	759	12.65	3.84889	24.53031	Unclassified	chr6:127401740-127444257	40.518
Hist1h1t	0	0	0	7	0.116667	0.213685	2	Unclassified	chr13:23785679-23788591	0.913
Fxyd7	0	0	0	30	0.5	0.378063	0.227269	Unclassified	chr7:31827533-31838473	8.941
Cd200r1	0	0	0	33	0.55	1.22633	1.533751	Unclassified	chr16:44763848-44795090	29.243
Ptpn13	0	0	0	187	3.116667	0.102091	3.94468	Unclassified	chr5:103852210-104027380	173.171
Ptpn12	0	0	0	410	6.833333	2.39481	28.52517	Stalled	chr5:20492462-20563615	69.154
Bcl2l2	0	0	0	155	2.583333	7.049	6.372798	Unclassified	chr14:55500261-55507071	4.811
Gm5941	0	0	0	2	0.033333	0	2	Unclassified	chrX:89733287-89736018	0.732
Bcl7b	0	0	0	914	15.23333	16.5578	12.02837	Unclassified	chr5:135642241-135657722	13.482
Olfr639	0	0	0	2	0.033333	0	1	Unclassified	chr7:111160263-111163214	0.952
Olfr571	0	0	0	1	0.016667	0	1	Unclassified	chr7:110057382-110060351	0.97
Olfr609	0	0	0	0	0	0	0	Unclassified	chr7:110640432-110643390	0.959
Olfr622	0	0	0	3	0.05	0	1	Unclassified	chr7:110787698-110790652	0.955
Olfr615	0	0	0	3	0.05	0	1	Unclassified	chr7:110706992-110709934	0.943
Olfr610	0	0	0	0	0	0	0	Unclassified	chr7:110654511-110657458	0.948
Olfr1062	0	0	0	0	0	0.027161	0	Unclassified	chr2:86262875-86265831	0.957
Olfr547	0	0	0	2	0.033333	0.074876	2	Unclassified	chr7:109681262-109684202	0.941
Olfr619	0	0	0	0	0	0.022866	0	Unclassified	chr7:110750102-110753223	1.122
Olfr643	0	0	0	1	0.016667	0.027125	0	Unclassified	chr7:111207169-111210114	0.946
Gm13043	0	0	0	0	0	0	0	Unclassified	chr4:143099245-143107734	6.49
AA986860	0	0	0	61	1.016667	0.215759	2.538627	Unclassified	chr1:132626552-132641199	12.648
Psg27	0	0	0	12	0.2	0	0	Unclassified	chr7:19141862-19154654	10.793
Ralgapa1	0	0	0	1024	17.06667	4.01598	28.61877	Stalled	chr12:56703885-56924154	218.27
Ascl3	0	0	0	13	0.216667	0	0.705362	Unclassified	chr7:116870978-116877246	4.269
Tmem9b	0	0	0	315	5.25	8.38914	40.30464	Stalled	chr7:116879349-116897777	16.429
Scube2	0	0	0	115	1.916667	0.05244	2.262644	Unclassified	chr7:116942204-117011193	66.99
Spag4	0	0	0	156	2.6	4.93957	12.75776	Stalled	chr2:155888948-155895235	4.288
Cxcl2	0	0	0	11	0.183333	0.325035	2.55022	Unclassified	chr5:91330924-91334964	2.041
Ift52	0	0	0	397	6.616667	6.79887	22.62417	Unclassified	chr2:162841207-162871871	28.665
Olfm1	0	0	0	15	0.25	0	0.638226	Unclassified	chr7:114708946-114734879	23.934
Ovch2	0	0	0	15	0.25	0.099919	0.571039	Unclassified	chr7:114925057-114946693	19.637
Ptms	0	0	0	133	2.216667	43.901	2.991334	Elongating	chr6:124863692-124869964	4.273
Phf1	0	0	0	193	3.216667	6.06109	3.218739	Unclassified	chr17:27068071-27074835	4.765
Tjp2	0	0	0	546	9.1	2.87913	6.140557	Unclassified	chr19:24168991-24301444	130.454
Tjp1	0	0	0	70	1.166667	0.07632	1.609502	Unclassified	chr7:72441051-72518130	75.08
Map4k3	0	0	0	428	7.133333	0.439226	11.69139	Stalled	chr17:80979851-81129433	147.583
Tmem149	0	0	0	161	2.683333	2.95013	0.163893	Unclassified	chr7:31348445-31352981	2.537
Vamp3	0	0	0	458	7.633333	12.0187	21.71527	Unclassified	chr4:150421413-150434062	21.65
Adal	0	0	0	58	0.966667	1.06741	1.789128	Unclassified	chr2:120965876-120982414	14.539
Nyx	0	0	0	15	0.25	0.040699	1.22718	Unclassified	chrX:13042797-13066439	21.643
Olfr455	0	0	0	4	0.066667	0	2	Unclassified	chr6:42488066-42491019	0.954
Cd164i2	0	0	0	7	0.116667	0.090988	2.932479	Unclassified	chr4:132774723-132780469	3.747
C4bp	0	0	0	19	0.316667	0.33351	0.578444	Unclassified	chr1:132532497-132560195	25.699
Fam26d	0	0	0	7	0.116667	0.034508	0.430254	Unclassified	chr10:33758589-33766119	5.531
Gpr88	0	0	0	10	0.166667	0.271186	0.82904	Unclassified	chr3:115952571-115958402	3.832
4933405020Rik	0	0	0	4	0.066667	0.028715	0.290598	Unclassified	chr7:57852559-57855898	1.34
Tas2r119	0	0	0	2	0.033333	0.05096	0	Unclassified	chr15:32105043-32108049	1.007
Rhox3c	0	0	0	0	0	0	0	Unclassified	chrX:34882503-34888467	3.965
Vav3	0	0	0	771	12.85	1.72234	14.34728	Stalled	chr3:109141600-109488612	345.013
Olfr653	0	0	0	3	0.05	0	1	Unclassified	chr7:111726137-111729182	1.046
Olfr870	0	0	0	1	0.016667	0	0	Unclassified	chr9:19975077-19978013	0.937
Olfr681	0	0	0	0	0	0.020231	0	Unclassified	chr7:112267972-112270918	0.947
Olfr750	0	0	0	3	0.05	0.180149	3	Unclassified	chr14:51689985-51693117	1.133
Olfr403	0	0	0	0	0	0.035541	0	Unclassified	chr11:74007006-74009948	0.943
Olfr592	0	0	0	0	0	0.027298	0	Unclassified	chr7:110333116-110336055	0.94
Olfr372	0	0	0	4	0.066667	0.037784	0.033432	Unclassified	chr8:74579558-74582574	1.017
Olfr199	0	0	0	1	0.016667	0	1	Unclassified	chr16:59215511-59218437	0.927
Cldn12	0	0	0	37	0.166667	0.989675	7.025824	Unclassified	chr5:5505014-5516976	9.963
Rgma	0	0	0	70	1.166667	0.14286	0.393011	Unclassified	chr7:80518405-80564785	44.381
Tlr3	0	0	0	31	0.516667	0.358148	11.04222	Stalled	chr8:46481018-46497893	14.876
Kcnc4	0	0	0	34	0.566667	0.097835	0.823455	Unclassified	chr3:107241220-107263816	20.597
Marco	0	0	0	49	0.816667	1.19375	0.407289	Unclassified	chr1:122371114-122403661	30.548
Rg9mtd1	0	0	0	383	6.383333	12.5301	12.54488	Unclassified	chr16:56033832-56039887	4.056
Maoa	0	0	0	100	1.666667	0.557499	17.06608	Stalled	chrX:16194823-16264938	68.116
4930524E20Rik	0	0	0	1	0.016667	0	1	Unclassified	chrX:112019190-112022119	0.93
Eif3h	0	0	0	1384	23.06667	141.768	11.30696	Unclassified	chr15:51618108-51699007	78.9
Upf3b	0	0	0	216	3.6	11.6132	19.87265	Stalled	chrX:34631828-34652317	18.49
Mrpl38	0	0	0	345	5.75	21.4705	4.420926	Unclassified	chr11:115993130-116002182	7.053
Odf3b	0	0	0	11	0.183333	0.554553	0.847912	Unclassified	chr15:89207879-89211685	1.807
Med15	0	0	0	993	16.55	12.266	13.25266	Unclassified	chr16:17651313-17725023	71.711
Mepe	0	0	0	10	0.166667	0	0	Unclassified	chr5:104752347-104767630	13.284
Srrd	0	0	0	362	6.033333	6.48108	4.527143	Unclassified	chr5:112766410-112774060	5.651
D5Ert577e	0	0	0	2	0.033333	0.013633	0.96526	Unclassified	chr5:95883824-95914608	28.785
Ccdc75	0	0	0	391	6.516667	3.67856	32.32943	Unclassified	chr17:79232855-79247648	12.794
Olfr149	0	0	0	2	0.033333	0	0	Unclassified	chr9:39509416-39512352	0.937
Xrcc2	0	0	0	337	5.616667	2.37756	12.46066	Unclassified	chr5:25195633-25213615	15.983
Plin4	0	0	0	164	2.733333	0.052204	0.664962	Unclassified	chr17:56240013-56251225	9.213
Gabarapl1	0	0	0	155	2.583333	13.2336	2.860691	Elongating	chr6:129481209-129492349	9.141
Golga7	0	0	0	487	8.116667	18.776	20.12634	Unclassified	chr8:24351797-24369552	15.756

38782	0	0	0	918	15.3	8.74232	16.74551	Unclassified	chr2:60045992-60086442	38.451
Tmem183a	0	0	0	650	10.83333	13.8884	26.17121	Unclassified	chr1:136242673-136260576	15.904
Arc	0	0	0	95	1.583333	0.867721	18.41457	Stalled	chr15:74499512-74505000	3.489
Fancm	0	0	0	541	9.016667	3.59415	21.3359	Unclassified	chr12:66174592-66233045	56.454
Araf	0	0	0	368	6.133333	24.8484	6.110721	Unclassified	chrX:20423668-20437647	11.98
Glud1	0	0	0	761	12.68333	24.353	39.01898	Unclassified	chr14:35121912-35158219	34.308
Ar	0	0	0	35	0.583333	0.115267	0	Unclassified	chrX:95343088-95512486	167.399
Pdcd2	0	0	0	511	8.516667	18.4998	12.62186	Unclassified	chr17:15658538-15666265	5.728
Aqp5	0	0	0	9	0.15	0.165265	1.077662	Unclassified	chr15:99419458-99425260	3.803
Gm2a	0	0	0	450	7.5	35.7588	21.67141	Unclassified	chr11:54909618-54924400	12.783
Wnt9a	0	0	0	34	0.566667	0.069421	0.469098	Unclassified	chr11:59118431-59147054	26.624
Ndel1	0	0	0	679	11.31667	9.11507	35.65335	Unclassified	chr11:68634950-68668633	31.684
Il23a	0	0	0	13	0.216667	0.13203	1.917892	Unclassified	chr10:127733195-127737140	1.946
Trem2	0	0	0	11	0.183333	0.153136	0.820953	Unclassified	chr17:48483725-48491598	5.874
Klhdc8b	0	0	0	333	5.55	2.37355	2.994348	Elongating	chr9:108349969-108365912	13.944
Plekha3	0	0	0	611	10.18333	5.08666	10.07989	Unclassified	chr2:76511371-76535392	22.022
Cyp2c39	0	0	0	19	0.316667	0.033268	0	Unclassified	chr19:39583311-39643019	57.709
Cyp2c40	0	0	0	8	0.133333	0.011497	0	Unclassified	chr19:39841563-39889304	45.742
Rbm41	0	0	0	136	2.266667	1.32287	3.930747	Unclassified	chrX:136478781-136535090	54.31
Cyp2b9	0	0	0	13	0.216667	0.010234	0	Unclassified	chr7:26956427-26995679	37.253
Cyp2c29	0	0	0	17	0.283333	0.151527	0	Unclassified	chr19:39359574-39405203	43.63
Cyp2b19	0	0	0	17	0.283333	0.019022	1.578976	Unclassified	chr7:27540205-27557649	15.445
Trim54	0	0	0	22	0.366667	0.167315	0	Unclassified	chr5:31416984-31439999	21.016
C1qc	0	0	0	12	0.2	0.072958	0.781612	Unclassified	chr4:136445716-136450829	3.114
Slamf8	0	0	0	35	0.583333	0.07539	1.727804	Unclassified	chr1:174511507-174522699	9.193
Srpx2	0	0	0	15	0.25	0.035675	0	Unclassified	chrX:130440964-130466989	24.026
Efhh	0	0	0	50	0.833333	0.23599	2.952231	Unclassified	chr17:53538213-53604646	64.434
Tmem214	0	0	0	441	7.35	27.2797	6.055504	Unclassified	chr5:31170019-31179840	7.822
Kcnj14	0	0	0	236	3.933333	0.087212	1.311127	Elongating	chr7:53071836-53082117	8.282
Rgmb	0	0	0	119	1.983333	1.8248	14.30585	Stalled	chr17:15943216-15965550	20.335
Cyp27a1	0	0	0	48	0.8	0.813735	3.47926	Unclassified	chr1:74758147-74784464	24.318
Hopx	0	0	0	61	1.016667	4.13554	1.305717	Unclassified	chr5:77516010-77546148	28.139
Ttf1	0	0	0	556	9.266667	5.27144	14.64512	Unclassified	chr2:28913782-28943170	27.389
Ccl2	0	0	0	6	0.1	0.079506	0.226206	Unclassified	chr11:81847078-81850954	1.877
Ccl20	0	0	0	1	0.016667	0	0	Unclassified	chr1:83111340-83115741	2.402
Ccl11	0	0	0	11	0.183333	0.059722	1.483146	Unclassified	chr11:81869333-81876457	5.125
Ccl12	0	0	0	0	0	0	0	Unclassified	chr11:81913346-81916901	1.556
Ccl1	0	0	0	4	0.066667	0.152273	0.417249	Unclassified	chr11:81990167-81995314	3.148
Zfp524	0	0	0	394	6.566667	4.92871	16.12994	Stalled	chr7:4965109-4970090	2.982
Rp2h	0	0	0	193	3.216667	6.54699	21.49954	Stalled	chrX:19939733-19977475	35.743
Wnt6	0	0	0	34	0.566667	0.58256	0.878809	Unclassified	chr1:74816465-74831893	13.429
Nkain1	0	0	0	78	1.3	0.225993	2.240863	Unclassified	chr4:130123704-130169623	43.92
Fam103a1	0	0	0	232	3.866667	5.84205	30.90979	Stalled	chr7:88905838-88914376	6.539
Tnks	0	0	0	1101	18.35	3.57512	18.64777	Unclassified	chr8:35892232-36030744	136.513
Tomm34	0	0	0	958	15.96667	23.0396	9.765074	Unclassified	chr2:163879276-163898838	17.563
Marveld2	0	0	0	174	2.9	0.974803	16.11539	Stalled	chr13:101365911-101388899	20.989
Signlece	0	0	0	23	0.383333	0.17817	0.576158	Unclassified	chr7:50906439-50917531	9.093
Prp2	0	0	0	2	0.033333	0	0	Unclassified	chr6:132543963-132550720	4.758
Zan	0	0	0	131	2.183333	0.031104	0	Unclassified	chr5:137819865-137920292	98.428
A430110N23Rik	0	0	0	87	1.45	0.291744	0.798399	Unclassified	chr7:4875445-4896399	18.955
Dub1a	0	0	0	2	0.033333	0.001873	2	Unclassified	chr7:111988825-111993018	2.194
Rp1	0	0	0	10	0.166667	0.022129	0	Unclassified	chr1:4334223-4352473	16.251
Psmid14	0	0	0	1221	20.35	36.5166	18.68959	Unclassified	chr2:61547750-61638433	88.684
Scnm1	0	0	0	129	2.15	26.3208	8.916221	Unclassified	chr3:94933641-94939934	4.294
Ogfr	0	0	0	670	11.16667	57.7351	5.643266	Unclassified	chr2:180322111-180330542	6.432
Anks4b	0	0	0	10	0.166667	0.037899	1.050952	Unclassified	chr7:127315371-127327229	9.859
Gcnt3	0	0	0	8	0.133333	0.178791	0.44418	Unclassified	chr9:69879302-69887895	6.594
Arv1	0	0	0	370	6.166667	12.427	11.82216	Unclassified	chr8:127244038-127258023	11.986
Sync	0	0	0	232	3.866667	0.114501	0.162815	Unclassified	chr4:128962864-128985803	20.94
Hc	0	0	0	106	1.766667	0.094883	0.425627	Unclassified	chr2:34838850-34918916	78.067
Cyp2j13	0	0	0	19	0.316667	0.017581	0	Unclassified	chr4:95709350-95746231	34.882
B3gnt8	0	0	0	110	1.833333	5.43662	2.89824	Unclassified	chr7:26410642-26414509	1.868
Atg9b	0	0	0	105	1.75	1.02139	0.405812	Unclassified	chr5:23889998-23899961	7.964
Hbb-y	0	0	0	2	0.033333	0.144934	1	Unclassified	chr7:111000267-111003721	1.455
Brd7	0	0	0	708	11.8	23.9062	8.983605	Unclassified	chr8:90856210-90888090	29.881
Svs6	0	0	0	3	0.05	0	1	Unclassified	chr2:164140486-164144186	1.701
Ica1l	0	0	0	184	3.066667	0.273883	1.395161	Unclassified	chr1:60045911-60101931	54.021
Alx1	0	0	0	11	0.183333	0.061691	0	Unclassified	chr10:102470480-102493411	20.932
Rab39	0	0	0	92	1.533333	2.31604	21.07276	Stalled	chr9:53492214-53516337	22.124
9530002B09Rik	0	0	0	4	0.066667	0	0	Unclassified	chr4:122364501-122382378	15.878
Pja1	0	0	0	57	0.95	9.45522	7.372783	Unclassified	chrX:96661072-96668074	5.003
E430025E21Rik	0	0	0	627	10.45	5.73424	9.347647	Unclassified	chr15:59163551-59207707	42.157
Pitx1	0	0	0	12	0.2	0.209417	0.944869	Unclassified	chr13:55926414-55934786	6.373
Olfir871	0	0	0	1	0.016667	0.044695	0	Unclassified	chr9:20014650-20017797	1.148
Cpa4	0	0	0	32	0.533333	0.049748	1.306503	Unclassified	chr6:30516375-30541747	23.373
Anxa9	0	0	0	60	1	1.00499	0.825421	Unclassified	chr3:95100015-95113098	11.084
1700013B16Rik	0	0	0	17	0.283333	0.046394	0.298902	Unclassified	chr13:59801443-59809558	6.116
Cpe	0	0	0	73	1.216667	0.110222	0.586996	Unclassified	chr8:67071348-67173837	100.49
Cpa3	0	0	0	19	0.316667	0.062215	0	Unclassified	chr3:20115521-20144076	26.556
Cp	0	0	0	128	2.133333	0.182591	0.564569	Unclassified	chr3:19855053-19907609	50.557
Lsmp	0	0	0	253	4.216667	0.083122	0	Unclassified	chr16:41531454-42146326	612.873
Cys1	0	0	0	29	0.483333	0.188582	1.535871	Unclassified	chr12:25350702-25368660	15.959
Agbl3	0	0	0	350	5.833333	1.58467	124.012	Stalled	chr6:34728431-34807932	77.502
Fkrp	0	0	0	359	5.983333	10.9192	6.725455	Unclassified	chr7:17394615-17404081	7.467
Pus3	0	0	0	309	5.15	4.26061	4.933201	Unclassified	chr9:35365050-35374985	7.936
Tmed11	0	0	0	12	0.2	0.050392	0	Unclassified	chr5:109206253-109226382	18.13

Abcf1	0	0	0	679	11.31667	55.1722	7.605612	Unclassified	chr17:36093763-36108695	12.933
Aggf1	0	0	0	674	11.23333	19.8131	11.55908	Unclassified	chr13:96120671-96147289	24.619
Pglyrp3	0	0	0	10	0.166667	0.034701	0	Unclassified	chr3:91816504-91835505	17.002
Serf2	0	0	0	416	6.933333	35.133	11.28741	Unclassified	chr2:121272963-121279162	4.2
BC022687	0	0	0	228	3.8	2.24202	2.831477	Elongating	chr12:114045185-114054456	7.272
Eif1ay	0	0	0	263	4.383333	62.1881	18.42884	Unclassified	chrX:155808126-155823631	13.506
Thoc7	0	0	0	274	4.566667	21.2017	10.50485	Unclassified	chr14:14781527-14795739	12.213
Yy1	0	0	0	1081	18.01667	22.2034	12.17232	Unclassified	chr12:110029520-110054842	23.323
Neu4	0	0	0	18	0.3	0.045498	0.68945	Unclassified	chr1:95915069-95924907	7.839
Zap70	0	0	0	64	1.066667	0.194009	0.246514	Unclassified	chr1:36816705-36839661	20.957
Plagl1	0	0	0	46	0.766667	0.220746	9.402936	Unclassified	chr10:12808593-12851501	40.909
Zscan4c	0	0	0	0	0	0.01869	0	Unclassified	chr7:11589093-11595896	4.804
Zfa	0	0	0	2	0.033333	0.659547	0.707859	Unclassified	chr10:52262123-52267545	3.423
Eid1	0	0	0	137	2.283333	18.4687	8.611134	Unclassified	chr2:125496835-125501378	2.544
Serpnb3b	0	0	0	4	0.066667	0	0.67231	Unclassified	chr1:109050537-109059691	7.155
Nipsnap3b	0	0	0	274	4.566667	11.7774	40.99948	Stalled	chr4:53022795-53034931	10.137
Rtn4rl2	0	0	0	39	0.65	0.964015	0.846065	Unclassified	chr2:84712102-84728849	14.748
Angel2	0	0	0	583	9.716667	6.01539	23.34079	Unclassified	chr1:192750423-192769617	17.195
Ankk1	0	0	0	17	0.283333	0.071573	0.418627	Unclassified	chr9:49223326-49237126	11.801
Gm13103	0	0	0	0	0	0.006975	0	Unclassified	chr4:143434399-143443540	7.142
Fam55d	0	0	0	250	4.166667	0.312466	0.487028	Unclassified	chr9:47968197-48207603	237.407
1110036003Rik	0	0	0	27	0.45	0.871621	1.443975	Unclassified	chr11:100270063-100278133	6.071
Mst1r	0	0	0	35	0.583333	0.057216	1.542698	Unclassified	chr9:107807219-107822712	13.494
Setdb2	0	0	0	595	9.916667	5.01757	60.39631	Stalled	chr14:60020847-60061714	38.868
Irak4	0	0	0	480	8	6.89858	40.34633	Unclassified	chr15:94372090-94398745	24.656
Hif	0	0	0	68	1.133333	0.337093	1.364343	Unclassified	chr11:90197848-90254231	54.384
Atp6v1e2	0	0	0	10	0.166667	0.025556	0.257747	Unclassified	chr17:87343450-87349227	3.778
Snrpg	0	0	0	629	10.48333	130.986	14.45266	Unclassified	chr6:86319533-86328896	7.364
Aldh5a1	0	0	0	57	0.95	1.30266	5.72798	Unclassified	chr13:24999448-25031530	30.083
Eapa2	0	0	0	14	0.233333	0.037089	0.454392	Unclassified	chr6:42537211-42549371	10.161
Gabbr1	0	0	0	230	3.833333	0.075796	0.658729	Unclassified	chr5:72089254-72528483	437.23
Chst2	0	0	0	16	0.266667	0.285343	0.654105	Unclassified	chr9:95301344-95309689	6.346
Tdrd5	0	0	0	37	0.616667	0.052235	0.57341	Unclassified	chr1:158185434-158235479	48.046
Gabbr2	0	0	0	100	1.666667	0.02885	0	Unclassified	chr11:42231258-42446093	212.836
Rad9b	0	0	0	590	9.833333	0.89304	23.50621	Unclassified	chr5:122775516-122806204	28.689
Egr3	0	0	0	213	3.55	5.68317	1.674146	Elongating	chr14:70475251-70479964	2.714
Egr4	0	0	0	7	0.116667	0.335666	0.643148	Unclassified	chr6:85461115-85465536	2.422
Ttc9b	0	0	0	12	0.2	0.184272	2.347032	Unclassified	chr7:28436942-28441226	2.285
Ang6	0	0	0	0	0	0	0	Unclassified	chr14:44579490-44581934	0.445
Hes2	0	0	0	14	0.233333	0.264359	0.619803	Unclassified	chr4:151530975-151536578	3.604
Olfr284	0	0	0	1	0.016667	0	0	Unclassified	chr15:98170452-98173370	0.919
Olfr846	0	0	0	0	0	0	0	Unclassified	chr9:19164859-19167800	0.942
Gpr33	0	0	0	4	0.066667	0.018507	0	Unclassified	chr12:53123992-53131050	5.059
Olfr1402	0	0	0	1	0.016667	0.053235	1	Unclassified	chr3:97214139-97217102	0.964
Col4a3bp	0	0	0	672	11.2	5.75453	50.93782	Stalled	chr13:97310689-97410121	97.433
Olfr448	0	0	0	2	0.033333	0	1	Unclassified	chr6:42844451-42847384	0.934
Lcn12	0	0	0	15	0.25	0	0.514087	Unclassified	chr2:25346364-25351431	3.068
Olfr960	0	0	0	0	0	0	0	Unclassified	chr9:39428709-39431660	0.952
Olfr281	0	0	0	1	0.016667	0.034215	0	Unclassified	chr15:98284742-98287678	0.937
Olfr1412	0	0	0	1	0.016667	0.059688	0	Unclassified	chr1:94482908-94485874	0.967
Olfr729	0	0	0	2	0.033333	0	2	Unclassified	chr14:50767575-50770547	0.973
Zmym5	0	0	0	294	4.9	2.68612	13.82814	Unclassified	chr14:57409424-57432553	21.13
Ppic	0	0	0	6	0.1	0.229219	0.680878	Unclassified	chr18:53565994-53579661	11.668
Fam131b	0	0	0	22	0.366667	0.15449	1.492163	Unclassified	chr6:42265310-42276639	9.33
Rhag	0	0	0	14	0.233333	0.105143	0	Unclassified	chr17:40946097-40977703	29.607
Rheb	0	0	0	1067	17.78333	8.51777	14.82441	Unclassified	chr5:24308640-24350179	39.54
1700018B08Rik	0	0	0	11	0.183333	0.083069	0.530565	Unclassified	chr8:124054683-124067854	11.172
Psg23	0	0	0	4	0.066667	0.020065	0	Unclassified	chr7:19191691-19203850	10.16
Zfp109	0	0	0	51	0.85	1.41788	9.50009	Unclassified	chr7:25012813-25024617	9.805
Gm11596	0	0	0	0	0	0	0	Unclassified	chr11:99653988-99656606	0.619
Acpp	0	0	0	84	1.4	0.721326	13.37701	Stalled	chr9:104190569-104242052	49.484
Olfr690	0	0	0	1	0.016667	0.024136	1	Unclassified	chr7:112477730-112480792	1.063
Olfr480	0	0	0	2	0.033333	0.149462	1	Unclassified	chr7:115209281-115212310	1.03
Cldn9	0	0	0	6	0.1	0.125037	0.910864	Unclassified	chr17:23819550-23822985	1.436
Klk4	0	0	0	18	0.3	0.113969	0.464884	Unclassified	chr7:51134541-51141174	4.634
Sicl15a1	0	0	0	64	1.066667	0.126007	1.739563	Unclassified	chr14:121858842-121906476	45.635
Mylk3	0	0	0	40	0.666667	0.041747	2.647755	Unclassified	chr8:87848827-87891223	40.397
Chst9	0	0	0	151	2.516667	0	0	Unclassified	chr18:15610683-15878555	265.873
Pnliprp1	0	0	0	22	0.366667	0.023749	0	Unclassified	chr19:58801376-58818659	15.284
Tcfap2e	0	0	0	66	1.1	0.296646	0.480092	Unclassified	chr4:126393246-126415513	20.268
Zmynd12	0	0	0	259	4.316667	1.55872	54.01547	Stalled	chr4:119093288-119126503	31.216
Brwd3	0	0	0	298	4.966667	2.23847	30.58375	Stalled	chrX:105937546-106031694	92.149
Il2	0	0	0	3	0.05	0	0	Unclassified	chr3:37019643-37026875	5.233
Xiap	0	0	0	520	8.666667	5.11973	11.02577	Unclassified	chrX:39419012-39462841	41.83
Arhgap29	0	0	0	83	1.383333	0.110789	1.768703	Unclassified	chr3:121654243-121719071	62.829
Fbxl19	0	20.9557	0	215	3.583333	7.15516	5.715592	Unclassified	chr7:134888288-134912442	22.155
Atg5	0	152.6772	0	1059	17.65	6.45599	34.57567	Unclassified	chr10:43986163-44084097	95.935
Dnajb3	0	0	0	21	0.35	2.31738	18	Unclassified	chr1:90101306-90104323	1.018
Hs2st1	0	0	0	908	15.13333	2.2529	36.91875	Stalled	chr3:144094070-144235180	139.111
Il1rn	0	0	0	23	0.383333	0.348833	0.393624	Unclassified	chr2:24190379-24207010	14.632
Rprml	0	0	0	9	0.15	0.478221	0.544268	Unclassified	chr11:103508822-103511894	1.073
Cpxcr1	0	0	0	6	0.1	0	0	Unclassified	chrX:113560552-113592392	29.841
Mixl1	0	0	0	35	0.583333	0.336239	0.746873	Unclassified	chr1:182623180-182629165	3.986
Olfr154	0	0	0	1	0.016667	0	0	Unclassified	chr2:85503533-85506612	1.08
Dbf4	0	0	0	531	8.85	10.5164	22.65084	Unclassified	chr5:8397010-8424606	25.597
Sptlc3	0	0	0	72	1.2	0.013936	0.674153	Unclassified	chr2:139317655-139463410	143.756

Sertad1	0	0	0	526	8.766667	8.35962	13.54532	Unclassified	chr7:28269971-28275333	3.363
Sgk2	0	0	0	39	0.65	0.030263	1.719919	Unclassified	chr2:162811216-162839862	26.647
Slamf1	0	0	0	198	3.3	2.18837	7.403356	Unclassified	chr1:173695262-173731315	34.054
Pde11a	0	0	0	301	5.016667	0.166504	0.53681	Unclassified	chr2:75829188-76178710	347.523
Stx8	0	0	0	1240	20.666667	2.21057	14.72298	Unclassified	chr11:67777984-68020650	240.667
Malt1	0	0	0	1303	21.71667	10.8396	19.17164	Unclassified	chr18:65588650-65638446	47.797
Epha1	0	0	0	86	1.433333	0.080259	0	Unclassified	chr6:42308485-42325267	14.783
Stag2	0	0	0	1062	17.7	7.73341	28.19111	Unclassified	chrX:39501877-39630352	126.476
Stat2	0	0	0	822	13.7	17.7797	8.041451	Unclassified	chr10:127705631-127729905	22.275
Aldh1a2	0	0	0	70	1.166667	0.311193	3.988297	Unclassified	chr9:71061595-71144050	80.456
Ppm1d	0	0	0	505	8.416667	7.56747	28.34783	Unclassified	chr11:85122755-85160573	35.819
Slc7a10	0	0	0	25	0.416667	0.032862	0.893517	Unclassified	chr7:35969403-35986130	14.728
Gal3st1	0	0	0	108	1.8	1.03012	19.40721	Stalled	chr11:3881715-3899317	15.603
Ovol2	0	0	0	40	0.666667	0.312437	1.729777	Unclassified	chr2:144130911-144159816	26.906
Aven	0	0	0	632	10.53333	10.957	56.54598	Stalled	chr2:112331120-112471409	138.29
Sil1	0	0	0	1551	25.85	18.7269	43.23039	Unclassified	chr18:35426051-35660579	232.529
Krt6a	0	0	0	7	0.116667	0	0.80654	Unclassified	chr15:101520358-101526736	4.379
Krt84	0	0	0	10	0.166667	0.029933	0.430199	Unclassified	chr15:101355457-101365251	7.795
Krt4	0	0	0	10	0.166667	0.012017	0	Unclassified	chr15:101748965-101757166	6.202
Zfp677	0	0	0	151	2.516667	2.39187	26.25178	Stalled	chr17:21518711-21536229	15.519
Cnih4	0	0	0	359	5.983333	5.08143	14.36118	Unclassified	chr1:183079061-183099125	18.065
Ms4a6c	0	0	0	77	1.283333	10.4304	1.13687	Unclassified	chr19:11541857-11556684	12.828
Nucks1	0	0	0	1253	20.88333	13.3211	9.170645	Unclassified	chr1:133805034-133832897	25.864
AW551984	0	0	0	8	0.133333	0.037314	0.692037	Unclassified	chr9:39394980-39413709	16.73
Mlxip1	0	0	0	77	1.283333	0.77688	3.297513	Unclassified	chr5:135580782-135613792	31.011
Olfr13	0	105.7764	0	77	1.283333	0.634705	4.294565	Unclassified	chr3:103539316-103543924	2.609
Calca	0	0	0	7	0.116667	0.367454	1.477351	Unclassified	chr7:121774991-121781871	4.881
Fam179a	0	0	0	75	1.25	0.073173	0.86979	Unclassified	chr17:72020600-72079009	56.41
Zmat4	0	0	0	303	5.05	0.122732	1.702715	Unclassified	chr8:24778132-25173575	393.444
5730469M10Rik	0	0	0	348	5.8	11.5516	15.11199	Unclassified	chr14:41807028-41829064	20.037
Slco1c1	0	0	0	20	0.333333	0.025101	0.699215	Unclassified	chr6:141471070-141518237	45.168
Txndc16	0	0	0	901	15.01667	9.53765	28.5493	Unclassified	chr14:45754122-45841069	84.948
Gm13125	0	0	0	9	0.15	0.044687	0.820639	Unclassified	chr4:143962662-143969836	5.175
Zdhhc17	0	0	0	810	13.5	1.52578	47.04701	Unclassified	chr10:110378837-110449122	68.286
Slc22a18	0	0	0	48	0.8	0.017043	1.454831	Unclassified	chr7:150657659-150685237	25.579
Syt10	0	0	0	37	0.616667	0.073069	0	Unclassified	chr15:89612823-89674291	59.469
Clk2	0	0	0	611	10.18333	20.097	8.356455	Unclassified	chr3:88966726-88981009	12.284
A2bp1	0	0	0	1003	16.71667	0.061783	0.603747	Unclassified	chr16:5882885-7412572	1527.688
Lrrn1	0	0	0	26	0.433333	0.006967	1.894709	Unclassified	chr6:107477778-107520204	40.427
Lrpap1	0	0	0	554	9.233333	12.507	6.176742	Unclassified	chr5:35434154-35450346	14.193
Lrrc23	0	0	0	25	0.416667	0.191809	1.271781	Unclassified	chr6:124719880-124731736	9.857
Lrp6	0	0	0	731	12.18333	3.18525	35.63536	Stalled	chr6:134400434-134518931	116.498
Orm1	0	0	0	10	0.166667	0.185894	0.302163	Unclassified	chr4:63003599-63009196	3.598
Tubb1	0	0	0	19	0.316667	0.117994	0.533788	Unclassified	chr2:174274195-174283383	7.189
C4b	0	0	0	17	0.283333	0.091334	0	Unclassified	chr17:34865325-34882842	15.518
Amigo2	0	0	0	175	2.916667	21.7883	8.32146	Unclassified	chr15:97074504-97079718	3.215
Ncr1	0	0	0	4	0.066667	0.052562	1.526179	Unclassified	chr7:4287325-4296766	7.442
Lyar	0	0	0	606	10.1	46.4604	13.5913	Unclassified	chr5:38609720-38625545	13.826
C2	0	0	0	98	1.633333	0.101794	0	Unclassified	chr17:34999546-35021045	19.5
C1qb	0	0	0	10	0.166667	0.314066	2.785896	Unclassified	chr4:136436060-136444092	6.033
C1qbp	0	0	0	602	10.03333	93.3779	4.357145	Unclassified	chr11:70791347-70798528	5.182
C3ar1	0	0	0	25	0.416667	0.137137	0.517038	Unclassified	chr6:122797157-122808175	9.019
Pou4f1	0	0	0	19	0.316667	0.590676	2.582551	Unclassified	chr14:104861540-104869216	5.677
Gzmg	0	0	0	7	0.116667	0.144135	0.5	Unclassified	chr14:56775417-56780416	3
Foxm1	0	0	0	377	6.283333	12.1968	16.43263	Unclassified	chr6:128311011-128325904	12.894
Olfr453	0	0	0	1	0.016667	0	0	Unclassified	chr6:42692037-42694991	0.955
Foxc2	0	0	0	13	0.216667	0.453979	0.769517	Unclassified	chr8:123638070-123642794	2.725
Gtf2a2	0	0	0	424	7.066667	9.29468	26.6813	Unclassified	chr9:69858356-69870654	10.299
Hlx	0	0	0	592	9.866667	8.70471	4.506171	Unclassified	chr1:186551025-186558372	5.348
Usp27x	0	0	0	70	1.166667	1.15226	9.096349	Unclassified	chrX:6949718-6955400	3.683
Ctrl	0	0	0	82	1.366667	0.793804	1.584092	Unclassified	chr8:108455893-108459762	1.87
Gzmc	0	0	0	3	0.05	1.2199	0.692969	Unclassified	chr14:56850237-56855493	3.257
Pon1	0	0	0	26	0.433333	0.016942	1.017561	Unclassified	chr6:5118089-5145946	25.858
Ubd	0	0	0	5	0.083333	0	0	Unclassified	chr17:37328836-37333046	2.211
Ubi3	0	0	0	1309	21.81667	39.4991	10.82979	Unclassified	chr5:149316206-149366364	48.159
Trex2	0	0	0	24	0.4	0.025229	1.702128	Unclassified	chrX:70679043-70682682	1.64
Tcp11	0	0	0	68	1.133333	1.01742	4.720893	Unclassified	chr17:28203691-28219584	13.894
Pold2	0	0	0	615	10.25	52.184	11.24489	Unclassified	chr11:5772184-5780259	6.076
Tcp10b	0	0	0	2	0.033333	0.049319	0	Unclassified	chr17:7527045-7549537	20.493
Kdm5c	0	0	0	512	8.533333	19.0062	9.795339	Unclassified	chrX:148665772-148708897	41.126
Kdm5d	0	0	0	188	3.133333	4.3051	7.465519	Unclassified	chrY:232230-280254	46.025
Smn1	0	0	0	382	6.366667	33.4727	15.32631	Unclassified	chr13:100892809-100907653	12.845
Ltbp4	0	0	0	121	2.016667	0.566356	1.307082	Unclassified	chr7:28090159-28124631	32.473
Akr1b7	0	0	0	9	0.15	0.129424	1.165524	Unclassified	chr6:34360361-34373137	10.777
Smpd2	0	0	0	154	2.566667	6.74306	0.690289	Unclassified	chr10:41206977-41212146	3.17
Defb47	0	0	0	2	0.033333	0	0	Unclassified	chr14:63614938-63619903	2.966
Kcnc	0	0	0	6	0.1	0.04043	0.461013	Unclassified	chr4:115555004-115560569	3.566
Arfgef1	0	0	0	1143	19.05	7.465614	22.47739	Unclassified	chr1:10127587-10224751	95.165
4930428D18Rik	0	0	0	0	0	0	0	Unclassified	chrX:73636688-73643318	4.631
Cpsf6	0	0	0	822	13.7	11.457	16.13113	Unclassified	chr10:116781723-116816029	32.307
1700011H14Rik	0	0	0	28	0.466667	0.021965	0.410043	Unclassified	chr14:49846033-49867103	19.071
Crebbp	0	0	0	1793	29.88333	3.02245	7.653812	Unclassified	chr16:4084047-4215404	129.358
1700019D03Rik	0	0	0	22	0.366667	0.630059	1.833352	Unclassified	chr1:52981970-53011684	27.715
Iqsec3	0	0	0	130	2.166667	0.041222	2.698941	Unclassified	chr6:121322950-121425696	100.747
Ceacam14	0	0	0	4	0.066667	0.025032	0.393572	Unclassified	chr7:18396030-18400976	2.947
1700024G13Rik	0	0	0	22	0.366667	0	0.75316	Unclassified	chr14:33189687-33203559	11.873

Nfkbiz	0	0	0	620	10.33333	10.1401	9.351868	Unclassified	chr16:55811490-55824251	10.762
Stbd1	0	0	0	13	0.216667	0.541815	2.076202	Unclassified	chr5:93030076-93035605	3.53
9930023K05Rik	0	0	0	24	0.4	0.032242	0	Unclassified	chr19:56534126-56561219	25.094
Pou5f1	0	0	0	26	0.433333	0.095082	0.453517	Unclassified	chr17:35640983-35647722	4.74
Epstf1	0	0	0	578	9.633333	20.3228	11.14322	Unclassified	chr14:78302197-78402459	98.263
Dnajc9	0	0	0	382	6.366667	45.2128	9.064153	Unclassified	chr14:21203859-21210132	4.274
Map3k7ip2	0	0	0	1351	22.51667	14.3772	19.27936	Unclassified	chr10:7625445-7677921	50.477
Fam114a1	0	0	0	273	4.55	0.60626	14.97715	Stalled	chr5:65359313-65433140	71.828
Kdelc2	0	0	0	108	1.8	0.601327	19.77821	Stalled	chr9:53190127-53209972	17.846
Fndc1	0	0	0	81	1.35	0.030693	0	Unclassified	chr17:7931432-7999839	66.408
Tmeff2	0	0	0	144	2.4	0.234141	1.9516	Unclassified	chr1:50982366-51244114	259.749
Rrp12	0	0	0	866	14.43333	13.2205	8.261241	Unclassified	chr19:41937340-41972643	33.304
Atxn1l	0	0	0	357	5.95	4.26009	3.981286	Unclassified	chr8:112250350-112263639	11.29
Dach1	0	0	0	166	2.766667	0.227554	1.404081	Unclassified	chr14:98186065-98570762	382.698
Daf2	0	0	0	12	0.2	2.25424	2.42131	Unclassified	chr1:132285104-132321576	34.473
Cd55	0	0	0	152	2.533333	5.4452	19.06865	Stalled	chr1:132335606-132361317	23.712
Dab1	0	0	0	268	4.466667	0.087137	1.171706	Unclassified	chr4:104038164-104417447	377.284
Dab2	0	0	0	91	1.516667	0.128163	0.611221	Unclassified	chr15:6247788-6390709	140.922
Hdhd3	0	0	0	168	2.8	1.63278	12.2753	Stalled	chr4:62160087-62165234	3.148
Chrna1	0	0	0	46	0.766667	0.059778	1.405212	Unclassified	chr2:73401337-73420363	17.027
Dgka	0	0	0	225	3.75	13.0287	5.333116	Unclassified	chr10:128157191-128183112	23.922
Ankrd35	0	0	0	41	0.683333	0.481897	4.47715	Unclassified	chr3:96472053-96494957	20.905
Olfr70	0	0	0	11	0.183333	0.016347	0.814464	Unclassified	chr4:43707871-43715679	5.809
Khdc1a	0	0	0	0	0	0.016594	0	Unclassified	chr1:21337757-21342280	2.524
9430007A20Rik	0	0	0	11	0.183333	0.027346	0.460422	Unclassified	chr4:144107724-144119256	9.533
A530054K11Rik	0	0	0	186	3.1	1.37356	23.94319	Stalled	chr13:67717937-67740690	20.754
Frk	0	0	0	54	0.9	0.029377	0	Unclassified	chr10:34201205-34331032	127.828
Arap2	0	0	0	2148	35.8	5.56508	10.75428	Unclassified	chr5:62993684-63159416	163.733
Olfr59	0	0	0	6	0.1	0.03801	0	Unclassified	chr11:74095310-74103148	5.839
Olfr54	0	0	0	1	0.016667	0.027211	1	Unclassified	chr11:50838505-50841447	0.943
Olfr57	0	0	0	3	0.05	0.02001	3	Unclassified	chr10:78495542-78498502	0.961
Mas1	0	0	0	32	0.533333	0.021352	0.456769	Unclassified	chr17:13033944-13063009	27.066
Olfr51	0	0	0	0	0	0.023609	0	Unclassified	chr11:50818475-50821399	0.925
Pdzklip1	0	0	0	9	0.15	0.636271	1.367258	Unclassified	chr4:114759312-114766498	5.187
Ppie	0	0	0	405	6.75	19.1888	13.99197	Unclassified	chr4:122804367-122819184	12.818
Exoc4	0	0	0	2794	46.56667	8.82296	15.9741	Stalled	chr6:33197149-33922930	723.782
Ncam2	0	0	0	177	2.95	0.095646	2.132178	Unclassified	chr16:81198941-81624532	423.592
Olfr319	0	0	0	0	0	0.039247	0	Unclassified	chr11:58513204-58516125	0.922
Ncam1	0	0	0	255	4.25	0.195727	1.080166	Unclassified	chr9:49310250-49609174	296.925
Pcdhb6	0	0	0	1	0.016667	0.025987	0	Unclassified	chr18:37491681-37496000	2.32
Adam30	0	0	0	3	0.05	0	2	Unclassified	chr3:97962734-97967096	2.363
Nat2	0	0	0	106	1.766667	3.93323	3.237398	Unclassified	chr8:70016846-70026475	7.63
Slc25a30	0	0	0	426	7.1	2.52337	44.96646	Stalled	chr14:76161805-76188844	25.04
4933434I20Rik	0	0	0	31	0.516667	0.01984	0	Unclassified	chr8:85870370-85903301	30.932
Gpr61	0	0	0	22	0.366667	0.045201	0.452958	Unclassified	chr3:107951238-107959800	6.563
Larp6	0	0	0	30	0.5	0.072189	1.620901	Unclassified	chr9:60558927-60586608	25.682
Tbpl1	0	0	0	666	11.1	7.04311	30.48735	Unclassified	chr10:22423684-22453253	27.57
L3mbt13	0	0	0	357	5.95	1.32979	14.75173	Stalled	chr10:25995257-26096991	99.735
Zfp212	0	0	0	288	4.8	5.28316	14.49898	Unclassified	chr6:47868566-47882626	12.061
1700010I14Rik	0	0	0	126	2.1	1.25524	9.28426	Unclassified	chr17:9179197-9201184	19.988
Dcbl1	0	0	0	355	5.916667	3.50289	13.33833	Stalled	chr10:51951424-52041183	87.76
Gm5111	0	0	0	7	0.116667	0.05318	2	Unclassified	chr6:48537443-48540583	1.141
Tcea18	0	0	0	5	0.083333	0.567965	0.531506	Unclassified	chrX:132703522-132708790	3.269
Zfp786	0	0	0	127	2.116667	0.566166	14.56731	Stalled	chr6:47769264-47782504	11.241
1700029G01Rik	0	0	0	325	5.416667	1.24972	13.97215	Stalled	chr4:125827846-125841909	12.064
Aipl1	0	0	0	13	0.216667	0.563265	1.05335	Unclassified	chr11:71842223-71853011	8.789
Dcun1d1	0	0	0	289	4.816667	3.67468	1.280398	Unclassified	chr3:35791902-35830996	37.095
Eif3m	0	0	0	447	7.45	31.4172	15.51143	Unclassified	chr2:104839813-104859184	17.372
Cfnf	0	0	0	12	0.2	0.284237	0.624473	Unclassified	chr7:26152634-26156743	2.11
Lrfn4	0	0	0	85	1.416667	1.24274	3.858898	Unclassified	chr19:4611784-4617667	3.884
Gm10136	0	0	0	6	0.1	100.745	3	Unclassified	chr19:29077852-29080365	0.514
Ociad2	0	0	0	71	1.183333	1.08597	3.53947	Unclassified	chr5:73713437-73731878	16.442
2210409E12Rik	0	0	0	0	0	0.071929	0	Unclassified	chr11:88831951-88834328	0.378
Sult5a1	0	0	0	34	0.566667	0.121534	0.324857	Unclassified	chr8:125666746-125684180	15.435
Iqsec2	0	0	0	85	1.416667	0.942765	3.589088	Unclassified	chrX:148576810-148659779	80.97
Cd1d2	0	0	0	12	0.2	2.27073	12	Unclassified	chr3:86788507-86793454	2.948
Pde6a	0	0	0	166	2.766667	0.073264	1.817442	Unclassified	chr18:61378152-61449372	69.221
Olfr384	0	0	0	0	0	0.020425	0	Unclassified	chr11:73414083-73417022	0.94
Tmem57	0	0	0	585	9.75	8.22798	17.39621	Unclassified	chr4:134358677-134411260	50.584
Tmem98	0	0	0	10	0.166667	0.147208	1.277978	Unclassified	chr11:80621916-80635535	11.62
Spink8	0	0	0	16	0.266667	0.037751	0.818289	Unclassified	chr9:109717140-109729141	10.002
Sh3tc2	0	0	0	64	1.066667	0.019761	1.520297	Unclassified	chr18:62110728-62175373	62.646
Gpsm3	0	0	0	151	2.516667	37.4685	2.361771	Elongating	chr17:34724750-34728698	1.949
Dcxr	0	0	0	61	1.016667	12.4642	8.006768	Unclassified	chr11:120586686-120590595	1.91
Mdp1	0	0	0	147	2.45	18.4096	7.307715	Unclassified	chr14:56276717-56281345	2.629
1700054O13Rik	0	0	0	1	0.016667	0	1	Unclassified	chrX:9422072-9424626	0.555
Cep68	0	0	0	1109	18.48333	7.07326	4.978163	Unclassified	chr11:20127039-20151427	22.389
Des	0	0	0	22	0.366667	0.080339	3.113907	Unclassified	chr1:75354918-75364290	7.373
Tmem100	0	0	0	47	0.783333	0.523115	7.287238	Unclassified	chr11:89889661-89897819	6.159
Rbm18	0	0	0	437	7.283333	3.82103	18.87655	Unclassified	chr2:35971598-35994224	20.627
Tctex1d2	0	0	0	133	2.216667	9.61612	20.6932	Stalled	chr16:32417787-32428978	9.192
Trib2	0	0	0	394	6.566667	7.38299	9.483982	Unclassified	chr12:15798532-15825591	25.06
Gtpbbp8	0	0	0	239	3.983333	8.848	12.88803	Unclassified	chr16:44738993-44748476	7.484
Gpr179	0	0	0	62	1.033333	0.135403	1.011979	Unclassified	chr11:97193422-97215387	19.966
Gm13011	0	0	0	10	0.166667	0.033366	0.475031	Unclassified	chr4:136957468-136967706	8.239
Grm4	0	0	0	163	2.716667	0.023689	0.668999	Unclassified	chr17:27559332-27642249	80.918

Scube3	0	0	0	76	1.266667	0.017192	0.275944	Unclassified	chr17:28277470-28308290	28.821
Pkmyt1	0	0	0	508	8.466667	16.8605	17.04102	Unclassified	chr17:23861302-23873696	10.395
Ech1	0	0	0	172	2.866667	16.3379	7.851822	Unclassified	chr7:29608356-29617258	6.903
Srrm1	0	0	0	1503	25.05	34.0428	10.17794	Unclassified	chr4:134876398-134911129	32.732
Fchsdl	0	0	0	192	3.2	1.96757	19.53519	Stalled	chr18:38117087-38131385	12.299
Ddah2	0	0	0	440	7.333333	11.8621	13.36568	Unclassified	chr17:35194045-35199040	2.996
Pich1	0	0	0	118	1.966667	0.010243	0.567953	Unclassified	chr3:63500158-63656961	154.804
Zfp711	0	0	0	12	0.2	0.029599	0	Unclassified	chrX:109712134-109748671	34.538
Hdx	0	0	0	23	0.383333	0.024063	0	Unclassified	chrX:108688812-108812688	121.877
4921511C20Rik	0	0	0	0	0	0.015961	0	Unclassified	chrX:123928824-123930430	1.607
Aass	0	0	0	32	0.533333	0.031242	1.331893	Unclassified	chr6:23022169-23084974	60.806
Cbx8	0	0	0	113	1.883333	4.38814	23.28415	Stalled	chr11:118899749-118904227	2.479
Cngb3	0	0	0	105	1.75	0.043556	0.687477	Unclassified	chr4:19205996-19437770	229.775
Schip1	0	0	0	512	8.533333	0	0	Unclassified	chr3:67694153-68430404	734.252
McpH1	0	0	0	2218	36.96667	3.67732	31.58029	Unclassified	chr8:18593172-18803188	208.017
Ndufaf4	0	0	0	234	3.9	5.54594	9.520468	Unclassified	chr4:24823229-24832148	6.92
Tex28	0	0	0	5	0.083333	0	0	Unclassified	chrX:71396282-71415177	16.896
Leo1	0	0	0	604	10.06667	15.7268	10.25726	Unclassified	chr9:75287330-75314239	24.91
Gk5	0	0	0	319	5.316667	1.8702	51.33704	Stalled	chr9:96017847-96083372	63.526
Cd28	0	0	0	42	0.7	0.219691	5.39337	Unclassified	chr1:60801231-60830203	26.973
Rnf10	0	0	0	949	15.81667	41.777	10.49785	Unclassified	chr5:115691779-115724904	31.126
Ifitm3	0	0	0	22	0.366667	8.38133	20	Unclassified	chr7:148195488-148198643	1.156
Uroc1	0	0	0	37	0.616667	0.07243	0.927384	Unclassified	chr6:90281282-90314542	31.261
Tceal7	0	0	0	2	0.033333	0	0	Unclassified	chrX:132756579-132760639	2.061
Ifitd1	0	0	0	55	0.916667	0.075194	0	Unclassified	chr6:145345754-145385445	37.692
Cica4	0	0	0	15	0.25	0.024836	0	Unclassified	chr3:144485586-144514266	26.681
Igsf3	0	0	0	130	2.166667	0.149493	2.462692	Unclassified	chr3:101179047-101266983	85.937
Tnfsf15	0	0	0	31	0.516667	0.134145	1.232026	Unclassified	chr4:63385636-63408147	20.512
Wrnip1	0	0	0	368	6.133333	22.0044	19.16593	Unclassified	chr13:32891898-32914479	20.582
Aldh1b1	0	0	0	99	1.65	5.23822	8.15076	Unclassified	chr4:45809893-45817480	5.588
9130017N09Rik	0	0	0	51	0.85	0.07393	3.428746	Unclassified	chr10:79281765-79293197	9.433
Cbin3	0	0	0	191	3.183333	0.130253	5.044804	Unclassified	chr14:56497756-56505093	5.338
Tex13	0	0	0	3	0.05	0.045419	0.673629	Unclassified	chrX:137342845-137349972	5.128
Diap3	0	0	0	2128	35.46667	3.66287	23.18815	Stalled	chr14:87056129-87542921	484.793
Ykt6	0	0	0	508	8.466667	36.2094	16.45697	Unclassified	chr11:5853834-5867783	11.95
Bcl2a1c	0	0	0	2	0.033333	5.15022	0	Unclassified	chr9:114237252-114239696	0.445
Zfp780b	0	0	0	198	3.3	0.928474	15.54763	Stalled	chr7:28744818-28766176	19.359
Pom121	0	0	0	854	14.23333	16.2013	5.958858	Unclassified	chr5:135852009-135872416	18.408
Sfrs17b	0	0	0	141	2.35	1.12033	13.79044	Stalled	chrX:34148177-34187409	37.233
1700074P13Rik	0	0	0	10	0.166667	0	0	Unclassified	chr6:40870458-40892556	20.099
Rusc2	0	0	0	74	1.233333	0.209488	3.204621	Unclassified	chr4:43392853-43439958	45.106
Plekhh2	0	0	0	479	7.983333	8.45061	12.90501	Unclassified	chr1:34904803-34936430	29.628
Ptprb	0	0	0	78	1.3	0.045189	0.537511	Unclassified	chr10:115736429-115826594	88.166
Zfp768	0	0	0	70	1.166667	1.81902	2.149457	Unclassified	chr7:134486308-134490828	2.521
Zfp764	0	0	0	153	2.55	5.585	13.95615	Stalled	chr7:134547181-134552336	3.156
Prr14	0	0	0	354	5.9	14.3499	6.088344	Unclassified	chr7:134613127-134620272	5.146
Ptprd	0	0	0	311	5.183333	0.030046	0.677775	Unclassified	chr4:75587142-76242203	653.062
Lag3	0	0	0	100	1.666667	5.51032	1.828939	Elongating	chr6:124854377-124863723	7.347
Stmn1	0	0	0	572	9.533333	74.4841	9.940665	Unclassified	chr4:134022234-134029757	5.524
Ptprf	0	0	0	143	2.383333	0.036867	1.49984	Unclassified	chr4:117880817-117966002	83.186
Cacnb2	0	0	0	379	6.316667	0.50045	10.37558	Stalled	chr2:14523932-14908560	382.629
Tyro3	0	0	0	82	1.366667	1.42038	2.837575	Unclassified	chr2:119623249-119643839	18.591
Gm14410	0	0	0	7	0.116667	0	2.349205	Unclassified	chr2:176975691-176993129	15.439
Tyr	0	0	0	33	0.55	0.011627	1.368474	Unclassified	chr7:94575914-94643921	66.008
Afp	0	0	0	14	0.233333	0.215039	0.569465	Unclassified	chr5:90917739-90937933	18.195
Cacna2d3	0	0	0	609	10.15	0.038154	1.723874	Unclassified	chr14:29718128-30537050	816.923
Tyrp1	0	0	0	11	0.183333	0.028271	0	Unclassified	chr4:80478133-80497622	17.49
Ngfrap1	0	0	0	13	0.216667	53.0779	0.380828	Unclassified	chrX:132802791-132806517	1.727
Snx24	0	0	0	237	3.95	0.429027	5.512023	Unclassified	chr18:53403315-53550479	145.165
2810407C02Rik	0	0	0	573	9.55	11.9458	18.84064	Unclassified	chr3:58378579-58397466	16.888
Camta1	0	0	0	2260	37.66667	0.641078	37.8369	Stalled	chr4:150433632-151237866	802.235
Ttl	0	0	0	182	3.033333	2.64572	21.62106	Stalled	chr2:128889682-128922019	30.338
Ptprh	0	0	0	38	0.633333	0.025596	0.601898	Unclassified	chr7:4500215-4557643	55.429
Gm12888	0	0	0	4	0.066667	0.067267	0	Unclassified	chr4:120988920-120999522	8.603
Cldn18	0	0	0	10	0.166667	0.023001	0.669336	Unclassified	chr9:99591217-99612434	19.218
Ccdc158	0	0	0	50	0.833333	0.044056	2.354704	Unclassified	chr5:93037320-93106153	66.834
Nhsl1	0	0	0	120	2	0.249451	0.514839	Unclassified	chr10:18125480-18253697	126.218
Dlgap3	0	0	0	137	2.283333	0.62145	1.3145	Unclassified	chr4:126848123-126914265	64.143
Serpinb13	0	0	0	10	0.166667	0	0	Unclassified	chr1:108875560-108897772	20.213
Gmeb2	0	0	0	866	14.43333	5.78115	30.36574	Unclassified	chr2:180986155-181024671	36.517
Timeless	0	0	0	844	14.06667	10.6965	13.7412	Unclassified	chr10:127667118-127689988	20.871
Ttll10	0	0	0	27	0.45	0.346681	0.374719	Unclassified	chr4:155408945-155426926	15.982
Timp1	0	0	0	6	0.1	0.115593	0	Unclassified	chrX:20445291-20451863	4.573
Timm44	0	0	0	703	11.71667	30.7418	7.001746	Unclassified	chr8:4259730-4277905	16.176
Timm17b	0	0	0	262	4.366667	18.0723	41.93975	Stalled	chrX:7474523-7484778	8.256
Tead1	0	0	0	301	5.016667	0.078494	1.743919	Unclassified	chr7:119820833-120050317	227.485
Timp3	0	0	0	68	1.133333	0.172491	0.8737	Unclassified	chr10:85761156-85812250	49.095
Sry	0	0	0	0	0	0	0	Unclassified	chrY:1918380-1921568	1.189
Olfir951	0	0	0	0	0	0.02706	0	Unclassified	chr9:39199377-39202322	0.946
Ankrd53	0	0	0	115	1.916667	0.619788	0.593397	Unclassified	chr6:83710639-83718320	5.682
Rif	0	0	0	299	4.983333	2.48125	1.040538	Unclassified	chr4:120817977-120863139	43.163
Lce3b	0	0	0	1	0.016667	0.022846	1	Unclassified	chr3:92734900-92738018	1.119
Fam19a4	0	0	0	150	2.5	0.152715	0	Unclassified	chr6:96781202-97012405	229.204
Kbtbd10	0	0	0	19	0.316667	0.051536	0.483795	Unclassified	chr2:69506176-69522296	14.121
Atp2b3	0	0	0	58	0.966667	0.045742	0	Unclassified	chrX:70746424-70816344	67.921
Bend6	0	0	0	89	1.483333	0.693224	0.38821	Unclassified	chr1:33908896-33966466	55.571

Tmem117	0	0	0	296	4.933333	0.036868	1.226228	Unclassified	chr15:94457615-94926528	466.914
Osgin2	0	0	0	445	7.416667	3.01633	26.95875	Unclassified	chr4:15924267-15943024	16.758
Olfr1480	0	0	0	0	0	0.0163	0	Unclassified	chr19:13602164-13605112	0.949
Sap30bp	0	0	0	1025	17.08333	16.4196	5.509508	Unclassified	chr11:115792972-115826848	31.877
Actn2	0	0	0	92	1.533333	0.112554	3.645045	Unclassified	chr13:12361693-12434999	71.307
Clca2	0	0	0	17	0.283333	0.036496	0.578226	Unclassified	chr3:144459524-144484458	22.935
Actl7a	0	0	0	67	1.116667	0	0.356401	Unclassified	chr4:56754293-56757797	1.505
Actl7b	0	0	0	19	0.316667	0.018039	0.986558	Unclassified	chr4:56752876-56756297	1.422
Olfr1198	0	0	0	2	0.033333	0	1	Unclassified	chr2:88586116-88589043	0.928
Eid2	0	0	0	13	0.216667	1.98016	2.242048	Unclassified	chr7:29050899-29054187	1.289
Olfr1365	0	0	0	1	0.016667	0.078387	0	Unclassified	chr13:21646908-21649889	0.982
Olfr1380	0	0	0	0	0	0	0	Unclassified	chr11:49375424-49378360	0.937
Olfr1383	0	0	0	1	0.016667	0.026155	1	Unclassified	chr11:49335226-49338162	0.937
Nmt2	0	0	0	484	8.066667	5.25061	30.21237	Stalled	chr2:3199559-3243641	42.083
Fgl1	0	0	0	17	0.283333	0	0.58682	Unclassified	chr8:42276787-42302510	23.724
Gypa	0	0	0	14	0.233333	0.105224	0	Unclassified	chr8:83015943-83034684	16.742
Fat4	0	0	0	99	1.65	0.093848	4.702125	Unclassified	chr3:38783861-38910905	125.045
Znrf2	0	0	0	767	12.78333	5.9843	29.28069	Unclassified	chr6:54764909-54839730	72.822
Med19	0	0	0	272	4.533333	6.87671	12.58979	Unclassified	chr2:84516558-84528371	9.814
Col7a1	0	0	0	108	1.8	0.222941	1.741274	Unclassified	chr9:108853789-108886920	31.132
Sytl5	0	0	0	19	0.316667	0.066839	0	Unclassified	chrX:9460747-9571669	108.923
Magea8	0	0	0	1	0.016667	0.010989	0	Unclassified	chrX:151420317-151432393	10.077
Gnl2	0	0	0	720	12	18.581	11.87887	Unclassified	chr4:124705257-124732626	25.37
Magea4	0	0	0	2	0.033333	0	2	Unclassified	chrX:69465355-69468302	0.948
Magea5	0	0	0	4	0.066667	0	0.714122	Unclassified	chrX:151487603-151498096	8.494
Magea6	0	0	0	0	0	0	0	Unclassified	chrX:151358554-151362658	2.105
Zfp317	0	0	0	221	3.683333	2.0827	27.15344	Stalled	chr9:19424534-19454174	27.641
4933417A18Rik	0	0	0	26	0.433333	0.089161	1.073126	Unclassified	chr13:35014277-35045063	28.787
Dnajc25	0	0	0	238	3.966667	5.27034	20.57686	Stalled	chr4:59014064-59036269	20.206
Fam108c	0	0	0	531	8.85	8.40598	7.894025	Unclassified	chr7:91257865-91302403	42.539
Jkamp	0	0	0	244	4.066667	3.91963	19.74654	Stalled	chr12:73185109-73201829	14.721
Abtb1	0	0	0	181	3.016667	6.7477	6.390682	Unclassified	chr6:88785907-88793929	6.023
Aldh6a1	0	0	0	224	3.733333	0.661514	32.1465	Stalled	chr12:85771667-85793900	20.234
Pds5b	0	0	0	947	15.78333	5.44208	14.89148	Unclassified	chr5:151474401-151613245	136.845
Tmem177	0	0	0	191	3.183333	1.41386	10.73882	Unclassified	chr1:121804477-121811745	5.269
Lysmd3	0	0	0	263	4.383333	2.65663	16.23681	Unclassified	chr13:81794804-81810889	14.086
Fam13a	0	0	0	76	1.266667	0.346224	3.374475	Unclassified	chr6:58883529-58976496	90.968
Grpr	0	0	0	7	0.116667	0.025705	0	Unclassified	chrX:159951835-159989579	35.745
4933425O20Rik	0	0	0	18	0.3	0.157532	0.585828	Unclassified	chr2:130230257-130233530	1.274
Grm8	0	0	0	448	7.466667	0.090503	4.670748	Unclassified	chr6:27225120-28086369	859.25
Cxcl1	0	0	0	11	0.183333	0.406008	3.256684	Unclassified	chr5:91318270-91322139	1.87
Rgs18	0	0	0	17	0.283333	1.34437	3.213329	Unclassified	chr1:146599970-146624551	22.582
Rab6b	0	0	0	238	3.966667	0.533262	5.608641	Unclassified	chr9:103012403-103087600	73.198
Amt	0	0	0	40	0.666667	0.996019	0.285208	Unclassified	chr9:108197252-108203928	4.677
Rhobtb2	0	0	0	549	9.15	11.5698	6.427418	Unclassified	chr14:70184796-70207352	20.557
Rps4x	0	0	0	655	10.91667	206.793	1.273685	Elongating	chrX:99380281-99385710	3.43
Noxo1	0	0	0	143	2.383333	0.439417	0.729189	Unclassified	chr17:24833287-24837300	2.014
Fcgr4	0	0	0	45	0.75	1.58894	1.97545	Unclassified	chr1:172947056-172959892	10.837
Zfyve20	0	0	0	534	8.9	4.61741	12.95455	Unclassified	chr6:92136705-92166805	28.101
Gpr124	0	0	0	192	3.2	0.202694	1.884021	Unclassified	chr8:28194312-28233892	37.581
Setdb1	0	0	0	587	9.783333	13.3717	1.720835	Elongating	chr3:95127447-95163124	33.678
Hamp	0	0	0	52	0.866667	0.048677	11.0303	Unclassified	chr7:31727387-31731036	1.65
Necab2	0	0	0	120	2	0.149556	11.36684	Stalled	chr8:121968618-121996535	25.918
Zdhhc1	0	0	0	154	2.566667	1.24153	13.46477	Stalled	chr8:107996324-108022770	24.447
Disp2	0	0	0	42	0.7	0.071756	2.02629	Unclassified	chr2:118603653-118620911	15.259
Ubr5	0	0	0	1790	29.83333	14.9999	15.1227	Unclassified	chr15:37897082-38010608	111.527
Gss	0	0	0	254	4.233333	5.88632	19.30626	Stalled	chr2:155388918-155420442	29.525
Rnf26	0	0	0	147	2.45	11.459	24.53954	Stalled	chr9:43918863-43923134	2.272
Zfp365	0	0	0	123	2.05	0.855476	11.00337	Stalled	chr10:67348852-67377410	26.559
Zfp318	0	0	0	297	4.95	1.92578	24.93325	Stalled	chr17:46518714-46557867	37.154
Nhedc2	0	0	0	59	0.983333	0.119992	9.587584	Unclassified	chr3:134968663-135005731	35.069
Crat	0	0	0	580	9.666667	5.07051	15.70711	Unclassified	chr2:30255995-30273268	15.274
Acot3	0	0	0	9	0.15	0.473618	1.12396	Unclassified	chr12:85391100-85400514	7.415
Apoc3	0	0	0	3	0.05	0	0.55516	Unclassified	chr9:46041133-46045380	2.248
Apod	0	0	0	39	0.65	0.123896	0.651837	Unclassified	chr16:31296277-31316682	18.406
Apoe	0	0	0	166	2.766667	4.03619	4.176224	Unclassified	chr7:20281592-20286515	2.924
Megf8	0	0	0	114	1.9	0.201691	3.628925	Unclassified	chr7:26100182-26150936	48.755
Apobec2	0	0	0	263	4.383333	0.43142	0.233627	Unclassified	chr17:48558555-48574053	13.499
Apoc1	0	0	0	12	0.2	0	2.524426	Unclassified	chr7:20274829-20280007	3.179
Apoc2	0	0	0	10	0.166667	0.121867	1.250219	Unclassified	chr7:20256927-20264213	5.287
Pax6	0	0	0	54	0.9	0.155806	1.880305	Unclassified	chr2:105514601-105537226	20.626
2210407C18Rik	0	0	0	8	0.133333	0	0	Unclassified	chr11:58421707-58428994	5.288
Apoh	0	0	0	11	0.183333	0	0	Unclassified	chr11:108254610-108275710	19.101
Nr2f2	0	0	0	26	0.433333	0.154634	0	Unclassified	chr7:77496835-77513632	14.798
2510006D16Rik	0	0	0	517	8.616667	50.6866	11.50587	Unclassified	chr4:129275950-129285123	7.174
Hccs	0	0	0	171	2.85	5.76576	25.4581	Stalled	chrX:165749464-165760275	8.812
Phf10	0	0	0	203	3.383333	18.6768	1.014567	Unclassified	chr17:15082001-15100237	16.237
1810055G02Rik	0	0	0	286	4.766667	3.50013	14.84514	Unclassified	chr19:3706332-3717881	9.55
Snip1	0	0	0	443	7.383333	9.46688	11.76095	Unclassified	chr4:124741936-124751289	7.354
Synn	0	0	0	39	0.65	0.153266	0.913443	Unclassified	chr7:74875046-74906628	29.583
Olfr965	0	0	0	0	0	0	0	Unclassified	chr9:39524813-39527752	0.94
Hmgb4	0	0	0	4	0.066667	0	3	Unclassified	chr4:127937455-127940139	0.685
Nol3	0	0	0	32	0.533333	0.473176	0.414907	Unclassified	chr8:107798346-107805839	5.494
Naa35	0	0	0	321	5.35	5.46351	16.73543	Stalled	chr13:59684693-59736142	49.45
Hectd2	0	0	0	57	0.95	0.1669	6.208459	Unclassified	chr19:36627128-36695625	66.498
Ninl	0	0	0	149	2.483333	0.369919	4.642538	Unclassified	chr2:150760254-150837134	74.881

Cox7b2	0	0	0	39	0.65	0.047206	0	Unclassified	chr5:71834061-71941444	105.384
Ermp1	0	0	0	587	9.783333	5.39656	11.51806	Unclassified	chr19:29684372-29724910	38.539
Ugt3a1	0	0	0	14	0.233333	0.014233	0.724629	Unclassified	chr15:9207583-9244791	35.209
Cpt1b	0	0	0	99	1.65	0	3.927552	Unclassified	chr15:89246835-89258293	9.459
Cpt1a	0	0	0	446	7.433333	2.11246	19.63453	Stalled	chr19:3321300-3385733	62.434
Cpt2	0	0	0	223	3.716667	6.99596	18.19618	Stalled	chr4:107576586-107598194	19.609
Cpne6	0	0	0	9	0.15	0.099306	0	Unclassified	chr14:56127284-56136267	6.984
Cpox	0	0	0	569	9.483333	57.5235	7.245085	Unclassified	chr16:58668320-58680502	10.183
Gsta2	0	0	0	6	0.1	0.047556	0	Unclassified	chr9:78178826-78196952	16.127
Il17f	0	0	0	9	0.15	0.065445	1.100962	Unclassified	chr1:20767229-20776351	7.123
Fbxo38	0	0	0	788	13.13333	9.67935	20.48688	Unclassified	chr18:62663712-62710397	44.686
Trim31	0	0	0	12	0.2	0.079817	2.452098	Unclassified	chr17:37033074-37047162	12.089
H2-M10.5	0	0	0	1	0.016667	0	0	Unclassified	chr17:36907854-36913180	3.327
Tcfap2d	0	0	0	24	0.4	0.044194	1.478086	Unclassified	chr1:19091102-19156406	63.305
Olfr868	0	0	0	2	0.033333	0	0	Unclassified	chr9:19901069-19906133	3.065
Crabp2	0	0	0	42	0.7	0.312892	1.785239	Unclassified	chr3:87750614-87757294	4.681
Med7	0	0	0	425	7.083333	4.68055	11.29588	Unclassified	chr11:46248448-46256223	5.776
Atp2b4	0	0	0	75	1.25	0.198604	0.795956	Unclassified	chr1:135600841-135652098	49.258
Kif14	0	0	0	552	9.2	2.41976	1.477956	Unclassified	chr1:138362534-138428088	63.555
Rnf144a	0	0	0	417	6.95	1.365	9.452771	Unclassified	chr12:26991662-27102121	108.46
Ppm1e	0	0	0	512	8.533333	1.82627	4.241777	Unclassified	chr11:87040407-87174496	132.09
Abcb10	0	0	0	411	6.85	4.93717	21.51542	Unclassified	chr8:126476358-126509022	30.665
Pih1d1	0	0	0	567	9.45	21.192	22.42602	Unclassified	chr7:52407767-52415434	5.668
Tulp4	0	0	0	578	9.633333	1.51957	41.5021	Stalled	chr17:6104829-6240637	133.809
Pr15a1	0	0	0	5	0.083333	0	0.669776	Unclassified	chr13:28232352-28243464	9.113
Tomm5	0	0	0	334	5.566667	47.4691	5.546473	Unclassified	chr4:45118081-45122985	2.905
Iffo2	0	0	0	585	9.75	2.72716	3.541427	Unclassified	chr4:139129050-139176297	45.248
Em1l	0	0	0	157	2.616667	0.135472	0.450532	Unclassified	chr12:109646864-109777774	128.911
Twistnb	0	0	0	241	4.016667	6.75665	13.53604	Unclassified	chr12:34112488-34124245	9.758
AU018091	0	0	0	11	0.183333	0.066926	1.257368	Unclassified	chr7:3154660-3171204	14.545
Siae	0	0	0	113	1.883333	1.38836	12.73942	Stalled	chr9:37419431-37455903	34.473
Crabp1	0	0	0	12	0.2	0.155664	1.646922	Unclassified	chr9:54610614-54620916	8.303
Vil1	0	0	0	134	2.233333	0.082846	0.653219	Unclassified	chr1:74453957-74482134	26.178
VeZF1	0	0	0	453	7.55	4.18116	13.26784	Unclassified	chr11:87879842-87898231	16.39
Bmp7	0	0	0	120	2	0.097785	1.131165	Unclassified	chr2:172695188-172767794	70.607
Lin7b	0	0	0	183	3.05	0.700343	18.20141	Stalled	chr7:52623260-52627934	2.675
Lin7c	0	0	0	455	7.583333	6.41548	21.38013	Unclassified	chr2:109729034-109741093	10.06
Vegfb	0	0	0	269	4.483333	14.5701	3.964807	Unclassified	chr19:7056961-7064093	5.133
Vegfc	0	0	0	68	1.133333	0.817628	5.889476	Unclassified	chr8:55160885-55271808	108.924
Spon2	0	0	0	13	0.216667	0.063022	0.252819	Unclassified	chr5:33556166-33562887	4.722
Trrap	0	0	0	1619	26.98333	11.0857	10.45726	Unclassified	chr5:145527660-145620642	90.983
Ednrb	0	0	0	29	0.483333	0.52387	4.116375	Unclassified	chr14:104213841-104245390	29.55
Stk25	0	0	0	285	4.75	12.2867	14.59252	Unclassified	chr1:95517327-95534304	14.978
Ndst2	0	0	0	397	6.616667	4.86767	10.60013	Unclassified	chr14:21542951-21555784	10.834
Parl	0	0	0	444	7.4	17.1459	9.196865	Unclassified	chr16:20279893-20304435	22.543
Olfr741	0	0	0	6	0.1	0.010892	0.755202	Unclassified	chr14:51090731-51106070	13.34
Tmeff1	0	0	0	109	1.816667	0.372629	1.710348	Unclassified	chr4:48596064-48676003	77.94
Olfr1271	0	0	0	0	0	0.025447	0	Unclassified	chr2:90105667-90108585	0.919
Olfr914	0	0	0	1	0.016667	0	0	Unclassified	chr9:38412051-38415002	0.952
Olfr920	0	0	0	5	0.083333	0.039234	3.016957	Unclassified	chr9:38558380-38564448	4.069
Olfr916	0	0	0	0	0	0	0	Unclassified	chr9:38465042-38467975	0.934
Olfr1238	0	0	0	0	0	0	0	Unclassified	chr2:89246286-89249234	0.949
Krt39	0	0	0	7	0.116667	0	0.484359	Unclassified	chr11:99375937-99384572	6.636
Olfr1245	0	0	0	2	0.033333	0	1	Unclassified	chr2:89414868-89417930	1.063
Olfr1230	0	0	0	1	0.016667	0	1	Unclassified	chr2:89136507-89139425	0.919
BC005537	0	0	0	863	14.38333	26.3624	17.88085	Unclassified	chr13:24891525-24904768	11.244
Lrrc47	0	0	0	620	10.33333	34.8796	5.399314	Unclassified	chr4:153383911-153395621	9.711
Hdac9	0	126.7321	0	373	6.216667	1.24321	4.623326	Unclassified	chr12:35056367-35215754	157.388
Edn2	0	0	0	14	0.233333	0.030908	1.771416	Unclassified	chr4:119832028-119839965	5.938
Fam120c	0	0	0	544	9.066667	1.43826	80.87749	Stalled	chrX:147776765-147908677	129.913
Tmem37	0	0	0	14	0.233333	0.113419	1.876085	Unclassified	chr1:121963953-121972357	6.405
Tppp	0	0	0	99	1.65	0.042813	2.048008	Unclassified	chr13:74144866-74173200	26.335
Gpr22	0	0	0	26	0.433333	0	1.155916	Unclassified	chr12:32391731-32400744	7.014
Dusp21	0	0	0	0	0	0	0	Unclassified	chrX:17720995-17723818	0.824
Bcl7a	0	0	0	781	13.01667	10.1244	8.317677	Unclassified	chr5:123792456-123824092	29.637
Arid2	0	0	0	1622	27.03333	3.92294	12.13779	Unclassified	chr15:96115952-96235894	117.943
Tssk5	0	0	0	195	3.25	0.01693	0.075822	Unclassified	chr15:76202387-76207368	2.982
Hyal4	0	0	0	15	0.25	0.049105	0.56888	Unclassified	chr6:24696366-24716519	18.154
Kremen2	0	0	0	22	0.366667	0.273507	1.029946	Unclassified	chr17:23878165-23884796	4.632
Ypel5	0	0	0	263	4.383333	2.85378	14.1961	Stalled	chr17:73184043-73200535	14.493
Casc3	0	0	0	750	12.5	16.2564	19.73962	Unclassified	chr11:98669121-98695121	24.001
Olfr1367	0	0	0	2	0.033333	0	0	Unclassified	chr13:21436798-21439749	0.952
Olfr1368	0	0	0	0	0	0.081374	0	Unclassified	chr13:21233979-21236924	0.946
Olfr1168	0	0	0	1	0.016667	0	1	Unclassified	chr2:88023035-88025972	0.938
Pde6b	0	0	0	182	3.033333	0.031859	0	Unclassified	chr5:108815391-108860761	43.371
St3gal3	0	0	0	1044	17.4	5.17525	24.42007	Stalled	chr4:117604757-117809495	202.739
Olfr1186	0	0	0	1	0.016667	0	0	Unclassified	chr2:88363657-88366745	1.089
Olfr813	0	0	0	1	0.016667	0.027441	1	Unclassified	chr10:129291575-129294508	0.934
Uts2	0	0	0	8	0.133333	0.214799	0.426211	Unclassified	chr4:150369205-150375918	4.714
Olfr1466	0	0	0	0	0	0	0	Unclassified	chr19:13414249-13417182	0.934
Olfr1370	0	0	0	2	0.033333	0	2	Unclassified	chr13:21164217-21167168	0.952
Olfr313	0	0	0	2	0.033333	0.022323	1	Unclassified	chr11:58628511-58631438	0.928
Med1	0	0	0	1226	20.43333	12.0458	14.31778	Unclassified	chr11:98013468-98056607	41.14
Pparg	0	0	0	109	1.816667	0.075918	1.649124	Unclassified	chr6:115309238-115440419	129.182
Olfr1462	0	0	0	2	0.033333	0	0	Unclassified	chr19:13263158-13266082	0.925
Rpap3	0	0	0	385	6.416667	9.97823	22.63994	Unclassified	chr15:97505535-97538253	30.719

Ppap2a	0	0	0	1006	16.76667	17.8511	21.20313	Unclassified	chr13:113588999-113657888	66.89
Ppara	0	0	0	107	1.783333	0.183788	3.804226	Unclassified	chr15:85563993-85637281	71.289
Bod1l	0	0	0	685	11.41667	4.57566	17.84367	Unclassified	chr5:42178777-42237554	56.778
Gm7247	0	0	0	100	1.666667	0.011096	0	Unclassified	chr14:51979430-52189657	208.228
Bsph1	0	0	0	11	0.183333	0.046775	0.683644	Unclassified	chr7:14034189-14058798	22.61
Batf2	0	0	0	15	0.25	0.065437	1.752669	Unclassified	chr19:6162457-6172475	8.019
Mettl7b	0	0	0	5	0.083333	0.031336	0.363463	Unclassified	chr10:128395332-128400044	2.713
2410017P07Rik	0	0	0	472	7.866667	2.52713	28.31858	Stalled	chr10:41438651-41531436	90.786
Rem1	0	0	0	18	0.3	0.127923	0.647735	Unclassified	chr2:152450743-152460927	8.185
Zfp879	0	0	0	30	0.5	0.345829	5.674541	Unclassified	chr11:50645536-50657054	9.519
Gm4894	0	0	0	27	0.45	0.033521	0	Unclassified	chr9:49056635-49088699	30.065
Larp4	0	0	0	925	15.41667	4.72043	39.21536	Unclassified	chr15:99801210-99846789	43.58
Gm15217	0	0	0	3	0.05	0.052598	1.517025	Unclassified	chr14:46997141-47003281	4.141
Mrps33	0	0	0	259	4.316667	12.3484	23.97323	Stalled	chr6:39751806-39762935	9.13
Adam21	0	0	0	34	0.566667	0.026416	2.84323	Unclassified	chr12:82659570-82671461	9.892
Fgf7	0	0	0	49	0.816667	0.043169	0	Unclassified	chr2:125858393-125916921	56.529
Clec4n	0	0	0	5	0.083333	0.343918	0	Unclassified	chr6:123177891-123197039	17.149
38974	0	0	0	719	11.98333	44.9786	23.27296	Unclassified	chr3:144231390-144260640	27.251
Poll	0	0	0	191	3.183333	6.52434	6.297374	Unclassified	chr19:45626765-45637033	8.269
Adamts18	0	0	0	117	1.95	0.031678	1.135394	Unclassified	chr8:116222036-116374739	150.704
Fgf8	0	0	0	11	0.183333	0.34496	2.01725	Unclassified	chr19:45811288-45819374	6.087
Zfp488	0	0	0	12	0.2	0.026831	0	Unclassified	chr14:34780257-34793950	11.694
Olfr873	0	0	0	1	0.016667	0	1	Unclassified	chr9:20102654-20105614	0.961
Chrng	0	0	0	118	1.966667	0.153449	0	Unclassified	chr1:89100385-89108410	6.026
Gm5039	0	0	0	0	0	0.083307	0	Unclassified	chr12:89558565-89562206	1.642
Pacsin1	0	0	0	466	7.766667	8.2665	7.275077	Unclassified	chr17:27790626-27848051	55.426
Nlrp5	0	0	0	22	0.366667	0.007393	0.723779	Unclassified	chr7:24168915-24226940	56.026
Grhl1	0	0	0	260	4.333333	0.454718	0.499482	Unclassified	chr12:25263583-25302254	36.672
Abpd	0	0	0	0	0	0	0	Unclassified	chr7:34149361-34153338	1.978
Odz1	0	0	0	175	2.916667	0.02452	0.809918	Unclassified	chrX:39885569-40629963	742.395
Odz3	0	0	0	326	5.433333	0.032832	1.162156	Unclassified	chr8:49311018-49762044	449.027
Odz2	0	0	0	654	10.9	0.055277	0	Unclassified	chr11:35820170-36759745	937.576
Osr1	0	0	0	9	0.15	0.173471	0.430969	Unclassified	chr12:9579247-9588305	7.059
Odz4	0	0	0	730	12.16667	0.062677	0.980251	Unclassified	chr7:103357146-104057064	697.919
Tnfrsf12a	0	0	0	157	2.616667	0	6.118454	Unclassified	chr17:23812413-23816416	2.004
Txndc2	0	0	0	13	0.216667	0.014842	0.316298	Unclassified	chr17:65986844-65993544	4.701
Sec11c	0	0	0	1225	20.41667	93.4949	4.546518	Unclassified	chr18:65958231-65977311	17.081
Wfdc16	0	0	0	6	0.1	0.034299	0.436302	Unclassified	chr2:164460207-164466302	4.096
Pdk4	0	0	0	11	0.183333	0.04454	0	Unclassified	chr6:5433350-5448278	12.929
Lima1	0	0	0	132	2.2	0.374218	5.914356	Unclassified	chr15:99608898-99707887	96.99
Zfp354b	0	0	0	29	0.483333	0.555438	3.710956	Unclassified	chr11:50735287-50747137	9.851
Golga5	0	0	0	367	6.116667	7.70669	6.397898	Unclassified	chr12:103706119-103736117	27.999
Tmem97	0	0	0	589	9.816667	30.368	10.50763	Unclassified	chr11:78355318-78366237	8.92
1810019J16Rik	0	0	0	208	3.466667	0.149659	0.202573	Unclassified	chr4:133072877-133086705	11.829
Ebna1bp2	0	0	0	353	5.883333	22.5012	5.887425	Unclassified	chr4:118291420-118300379	6.96
Psm11	0	0	0	775	12.91667	20.9653	14.32886	Unclassified	chr11:80240116-80285635	43.52
Triap1	0	0	0	304	5.066667	15.735	3.327499	Unclassified	chr5:115789255-115793561	2.307
Gzmd	0	0	0	2	0.033333	0.094485	0	Unclassified	chr14:56748404-56753430	3.027
9030612E09Rik	0	0	0	7	0.116667	1.23406	0.902098	Unclassified	chr10:42892509-42896368	1.86
Olfr1507	0	0	0	1	0.016667	0	0	Unclassified	chr14:53109609-53112721	1.113
Lin28	0	0	0	85	1.416667	0.441787	0.475079	Unclassified	chr4:133559244-133576731	15.488
Olfr644	0	0	0	1	0.016667	0	0	Unclassified	chr7:111216598-111219543	0.946
Olfr638	0	0	0	2	0.033333	0.015996	0	Unclassified	chr7:111149772-111152738	0.967
Tph1	0	0	0	24	0.4	0.13195	0.525944	Unclassified	chr7:53902500-53929907	25.408
Olfr623	0	0	0	0	0	0.059611	0	Unclassified	chr7:110808757-110811832	1.076
Bhlhe23	0	0	0	7	0.116667	0.279832	1.809524	Unclassified	chr2:180509086-180513605	2.52
Igf2bp3	0	0	0	861	14.35	4.51329	11.5343	Unclassified	chr6:49035217-49166953	129.737
Olfr632	0	0	0	3	0.05	0	1	Unclassified	chr7:111083895-111086849	0.955
Hrh4	0	0	0	15	0.25	0.016677	0	Unclassified	chr18:13163498-13181391	15.894
Igf2bp1	0	0	0	54	0.9	0.121122	0.957728	Unclassified	chr11:95818477-95869258	48.782
Man2a2	0	0	0	196	3.266667	10.6515	6.12441	Unclassified	chr7:87505335-87518012	10.678
Hsd3b5	0	0	0	6	0.1	0.046438	0	Unclassified	chr3:98422558-98451457	26.9
Hnmt	0	0	0	24	0.4	0.062557	0.684063	Unclassified	chr2:23858431-23906899	46.469
Pip4k2c	0	0	0	362	6.033333	10.97	21.81781	Unclassified	chr10:126634123-126650678	14.556
Kitl	0	0	0	61	1.016667	0.138771	2.378251	Unclassified	chr10:99476457-99563045	84.589
Pdcd5	0	0	0	266	4.433333	28.2493	8.0147	Unclassified	chr7:36427003-36434501	5.499
Mgmt	0	0	0	521	8.683333	4.77156	23.03174	Stalled	chr7:144084293-144319871	233.579
Amotl2	0	0	0	25	0.416667	0.100916	2.240533	Unclassified	chr9:102618133-102635747	15.615
Mif	0	0	0	273	4.55	329.48	209	Unclassified	chr10:75322097-75324995	0.899
Cnn1	0	0	0	46	0.766667	0.03225	0	Unclassified	chr9:21901696-21913665	9.97
Cnih2	0	0	0	215	3.583333	0.63201	2.195245	Elongating	chr19:5092870-5100418	5.549
Mrgprb4	0	0	0	2	0.033333	0.05307	2	Unclassified	chr7:55453582-55456548	0.967
Smc4	0	0	0	1180	19.66667	21.2243	10.88062	Unclassified	chr3:68806893-68838545	29.653
Tln2	0	0	0	371	6.183333	0.053868	0.481413	Unclassified	chr9:67064891-67409510	342.62
Zfp445	0	0	0	493	8.216667	8.90109	6.320887	Unclassified	chr9:122758027-122777124	17.098
Gm14744	0	0	0	0	0	0	0	Unclassified	chrX:75108096-75115372	5.277
Brd4	0	0	0	2016	33.6	17.8893	9.385723	Unclassified	chr17:32333220-32423068	87.849
BC049715	0	111.7637	0	464	7.733333	1.20505	8.775619	Unclassified	chr6:136775363-136789075	11.713
Gm16532	0	0	0	14	0.233333	0.046818	0	Unclassified	chr7:6365885-6383797	15.913
Sash1	0	0	0	345	5.75	0.522974	11.73459	Stalled	chr10:8442016-8607868	163.853
Itga7	0	0	0	47	0.783333	0.36637	1.059362	Unclassified	chr10:128368868-128395340	24.473
Itga5	0	0	0	95	1.583333	0.522674	2.42221	Unclassified	chr15:103174719-103199179	22.461
Itga6	0	0	0	320	5.333333	1.33016	10.93191	Stalled	chr2:71623139-71694815	69.677
Itga3	0	0	0	74	1.233333	0.908105	3.765855	Unclassified	chr11:94905795-94940028	32.234
S100a3	0	0	0	6	0.1	0.090002	0	Unclassified	chr3:90402136-90406624	2.489
Uchl4	0	0	0	21	0.35	13.3957	13	Unclassified	chr9:64081007-64084169	1.163

Slc28a2	0	0	0	99	1.65	5.81406	1.619911	Unclassified	chr2:122250212-122286866	34.655
Pnck	0	0	0	11	0.183333	0.108472	1.244587	Unclassified	chrX:70901332-70907167	3.836
Igsf9	0	0	0	105	1.75	0.567562	3.843731	Unclassified	chr1:174410343-174429008	16.666
Klk1b8	0	0	0	2	0.033333	0.060383	0.765698	Unclassified	chr7:51204041-51210308	4.268
Itgam	0	0	0	92	1.533333	1.23721	0.37868	Unclassified	chr7:135204153-135262005	55.853
Eli3	0	0	0	231	3.85	3.09625	0.58989	Unclassified	chr2:121264762-121270337	3.576
D330028D13Rik	0	0	0	180	3	1.80918	23.38742	Stalled	chr6:49315824-49339276	21.453
Olfr1243	0	0	0	1	0.016667	0.034886	1	Unclassified	chr2:89367647-89370565	0.919
Gm5766	0	0	0	1	0.016667	0	0	Unclassified	chr16:4227228-4231205	1.978
Kcnj10	0	0	0	62	1.033333	0.151635	2.280268	Unclassified	chr1:174269340-174304216	32.877
Trim21	0	0	0	119	1.983333	4.87512	5.018843	Unclassified	chr7:109706435-109715983	7.549
Ssb	0	0	0	421	7.016667	42.3469	18.81263	Unclassified	chr2:69697618-69709903	10.286
Nhp2l1	0	0	0	515	8.583333	17.9405	7.945993	Unclassified	chr15:81871774-81880028	6.255
Qrfp	0	0	0	69	1.15	0.10296	0.886929	Unclassified	chr2:31661687-31668038	4.352
Rfwd3	0	0	0	807	13.45	11.1996	15.58671	Unclassified	chr8:113794843-113826122	29.28
5930416I19Rik	0	0	0	333	5.55	14.2349	10.09328	Unclassified	chr6:128307017-128314915	5.899
Aldh9a1	0	0	0	470	7.833333	25.3032	21.48664	Unclassified	chr1:169278121-169296661	18.541
1810030J14Rik	0	0	0	1	0.016667	0.088238	0	Unclassified	chr1:176258649-176263004	2.566
Rbpjl	0	0	0	46	0.766667	0.271355	0.422713	Unclassified	chr2:164226693-164240948	12.256
Tacr2	0	0	0	25	0.416667	0.039732	0	Unclassified	chr10:61713185-61728738	13.554
Tacr2	0	0	0	9	0.15	0	0	Unclassified	chr10:127160447-127168824	6.378
Mpped1	0	0	0	116	1.933333	0.019687	0	Unclassified	chr15:83608452-83688904	78.453
Tac1	0	0	0	5	0.083333	0.04958	0.633162	Unclassified	chr6:7503070-7512973	7.904
Clec4a1	0	0	0	7	0.116667	0.206982	0.662219	Unclassified	chr6:122869875-122884637	12.763
Tacr3	0	0	0	54	0.9	0.061436	0.667874	Unclassified	chr3:134489970-134597536	105.567
Olfr1228	0	0	0	0	0	0.039557	0	Unclassified	chr2:89088877-89091849	0.973
Wwcl	0	0	0	179	2.983333	0.065617	1.782825	Unclassified	chr11:35652679-35795591	140.913
Fancd2	0	0	0	690	11.5	3.50315	20.79552	Unclassified	chr6:113479675-113546279	64.605
Ankrd33	0	0	0	5	0.083333	0.063253	0	Unclassified	chr15:100944185-100950455	4.271
Ccdc72	0	0	0	344	5.733333	58.5246	15.43312	Unclassified	chr9:108980501-108986895	4.395
En1	0	0	0	12	0.2	0.472737	0.31063	Unclassified	chr1:122497063-122504568	5.506
Rbmx12	0	0	0	4	0.066667	0.086923	3	Unclassified	chr7:114350958-114354430	1.473
Fam123c	0	0	0	19	0.316667	0.032379	2.411886	Unclassified	chr1:34634537-34647787	11.251
B3galt2	0	0	0	51	0.85	0	2.398138	Unclassified	chr1:145485826-145497067	9.242
B3galt1	0	0	0	45	0.75	0.087645	1.919435	Unclassified	chr3:69378107-69404783	24.677
Olfr1239	0	0	0	1	0.016667	0	0	Unclassified	chr2:89257650-89260568	0.919
2310067B10Rik	0	0	0	338	5.633333	7.99759	14.83134	Unclassified	chr11:115624746-115660347	33.602
Adamts16	0	0	0	102	1.7	0.020613	2.142215	Unclassified	chr13:70866685-70982688	114.004
Ifitm2	0	0	0	42	0.7	11.0701	1.517891	Unclassified	chr7:148140737-148143860	1.124
Tom1l1	0	0	0	156	2.6	0.313604	0.861704	Unclassified	chr11:90507004-90550915	41.912
Abcd2	0	0	0	22	0.366667	0.173378	0.692014	Unclassified	chr15:90976301-91024238	45.938
Lass5	0	0	0	709	11.81667	15.6841	17.77544	Unclassified	chr15:99566022-99604946	36.925
Adh4	0	0	0	10	0.166667	0.048843	0	Unclassified	chr3:138076460-138093856	15.397
B3galt1	0	0	0	5	0.083333	0.046352	0.498621	Unclassified	chr2:67953769-67960746	4.978
Gars	0	0	0	1065	17.75	44.2025	16.98672	Unclassified	chr6:54985994-55029498	41.505
4932441K18Rik	0	0	0	673	11.21667	1.84886	15.74271	Unclassified	chrX:159216850-159269331	50.482
Slc35b3	0	0	0	530	8.833333	3.36395	20.35014	Unclassified	chr13:39024008-39054406	28.399
Gm71	0	0	0	291	4.85	24.7785	12.41402	Unclassified	chr12:70678614-70686015	5.402
Pri2c2	0	0	0	0	0	0.066656	0	Unclassified	chr13:13088390-13099597	9.208
Smtnl1	0	0	0	40	0.666667	0.262003	0.240995	Unclassified	chr2:84651332-84664809	11.478
Rhoc	0	0	0	94	1.566667	0.715727	0.367051	Unclassified	chr3:104589951-104597377	5.427
Cggbp1	0	0	0	455	7.583333	9.17572	17.3015	Unclassified	chr16:64849910-64859317	7.408
Krtap4-2	0	0	0	0	0	0.013168	0	Unclassified	chr11:99495427-99498398	0.972
D630039A03Rik	0	0	0	17	0.283333	0.141617	1.154569	Unclassified	chr4:57921255-57931136	7.882
Arhgap5	0	0	0	142	2.366667	0.917548	0.824393	Unclassified	chr12:53615063-53668838	51.776
Spdya	0	0	0	130	2.166667	0.358094	3.904251	Unclassified	chr17:71899400-71938873	37.474
Olfr658	0	0	0	15	0.25	0.873471	5.865412	Unclassified	chr7:111791393-111797819	4.427
Pigw	0	0	0	680	11.33333	13.2115	28.34112	Unclassified	chr11:84689814-84695697	3.884
Cyp2j6	0	0	0	11	0.183333	0.427805	0.785016	Unclassified	chr4:96182828-96222342	37.515
Klkb1	0	0	0	26	0.433333	0.036454	0	Unclassified	chr8:46354806-46382189	25.384
Cyp46a1	0	0	0	64	1.066667	0.332645	4.99771	Unclassified	chr12:109570590-109600444	27.855
Cyp27b1	0	0	0	128	2.133333	0.269949	7.468594	Unclassified	chr10:126483301-126490061	4.761
Speer1-ps1	0	0	0	0	0	0	0	Unclassified	chr5:11338407-11346273	5.867
Clec9a	0	0	0	13	0.216667	0.03326	0	Unclassified	chr6:129356880-129372723	13.844
Gm156	0	0	0	5	0.083333	0	0	Unclassified	chr6:129716664-129727867	9.204
Clec12a	0	0	0	28	0.466667	0.24692	5.707428	Unclassified	chr6:129298303-129315321	15.019
Smarca1	0	0	0	26	0.433333	0.148549	3.9824	Unclassified	chrX:45162546-45247729	83.184
Asb8	0	0	0	339	5.65	6.92985	17.35956	Unclassified	chr15:97965070-97978133	11.064
Olfr659	0	0	0	1	0.016667	0	1	Unclassified	chr7:111817217-111820186	0.97
Aste1	0	0	0	260	4.333333	3.90303	12.05977	Unclassified	chr9:105295721-105308084	10.364
Olfr1254	0	0	0	1	0.016667	0	1	Unclassified	chr2:89628562-89631507	0.946
Abcb1a	0	0	0	134	2.233333	1.49904	13.13514	Stalled	chr5:8658091-8748570	88.48
Fzd7	0	0	0	48	0.8	1.22978	4.394041	Unclassified	chr1:59536990-59543799	4.81
Eif4g1	0	0	0	1380	23	85.0813	4.819487	Unclassified	chr16:20670821-20692956	20.136
Naip1	0	0	0	34	0.566667	0.11877	0.571962	Unclassified	chr13:101177724-101224819	45.096
Avpr2	0	0	0	150	2.5	0.719397	1.205805	Elongating	chrX:71135440-71139766	2.327
Olfr1261	0	0	0	1	0.016667	0.013883	1	Unclassified	chr2:89831551-89834472	0.922
Olfr33	0	0	0	1	0.016667	0.020041	1	Unclassified	chr7:109861968-109864925	0.958
Olfr31	0	0	0	2	0.033333	0.067242	1	Unclassified	chr14:15158626-15161579	0.954
Fzd1	0	0	0	6	0.1	0.165397	1.884551	Unclassified	chr5:4753838-4760216	4.379
Naip2	0	0	0	86	1.433333	0.756347	5.303935	Unclassified	chr13:100914017-100974047	58.031
Hint3	0	0	0	319	5.316667	10.2549	71.18832	Stalled	chr10:30328012-30340172	10.161
Fzd4	0	0	0	20	0.333333	0.71965	3.895752	Unclassified	chr7:96550875-96558620	5.746
Cx3c1	0	0	0	46	0.766667	0.379229	0.360912	Unclassified	chr8:97294079-97306326	10.248
Cxcl5	0	0	0	4	0.066667	0.046464	1.140893	Unclassified	chr5:91186324-91190651	2.328
Cxcl12	0	0	0	28	0.466667	0.33227	0.699571	Unclassified	chr6:117116552-117131386	12.835

Paqr4	0	0	0	152	2.533333	2.33149	1.008832	Elongating	chr17:23873152-23879297	4.146
Olf1393	0	0	0	2	0.033333	0.084907	1	Unclassified	chr11:49091651-49094587	0.937
Sfrp2	0	0	0	16	0.266667	0.365265	1.749156	Unclassified	chr3:83568242-83578235	7.994
Mrp14	0	0	0	443	7.383333	32.1015	10.5006	Unclassified	chr9:20805180-20813281	6.102
Mfap1a	0	0	0	239	3.983333	10.1118	53.86711	Stalled	chr2:121318416-121334392	13.977
Slmap	0	0	0	739	12.31667	10.3616	6.742202	Unclassified	chr14:27232660-27355226	120.567
Uqcrb	0	0	0	185	3.083333	22.7431	12.0297	Stalled	chr13:67001556-67008286	4.731
Glipr112	0	0	0	22	0.366667	0.08185	1.111028	Unclassified	chr10:111518409-111545154	24.746
Btf3	0	0	0	562	9.366667	89.4723	10.62032	Unclassified	chr13:99079852-99088922	7.071
Gm14137	0	0	0	91	1.516667	1.0759	1.689389	Elongating	chr2:118998244-119003311	3.068
Sh3rf3	0	0	0	322	5.366667	0.081966	3.06883	Unclassified	chr10:58274106-58601664	325.559
Phka1	0	0	0	181	3.016667	1.48167	29.83978	Stalled	chrX:99709313-99841585	130.273
AW146020	0	0	0	508	8.466667	3.59255	10.00728	Unclassified	chr6:81871662-81909092	35.431
Mthfd2l	0	0	0	155	2.583333	0.662384	25.04172	Stalled	chr5:91358221-91450395	90.175
Olf787	0	0	0	1	0.016667	0.011229	1	Unclassified	chr10:128897733-128900672	0.94
Olf804	0	0	0	2	0.033333	0	2	Unclassified	chr10:129139935-129142880	0.946
Sic28a1	0	0	0	99	1.65	0.049428	0	Unclassified	chr7:88257684-88315301	55.618
Sis	0	0	0	25	0.416667	0.013062	0.763099	Unclassified	chr3:72692481-72772788	78.308
4632411B12Rik	0	0	0	679	11.31667	9.20592	10.53642	Unclassified	chr1:36392574-36428026	33.453
Actr1b	0	0	0	462	7.7	16.7268	9.067891	Unclassified	chr1:36756046-36768770	10.725
Fbxo41	0	0	0	251	4.183333	0.121093	0.348281	Unclassified	chr6:85419571-85454880	33.31
Srp72	0	0	0	640	10.66667	26.0892	11.10678	Unclassified	chr5:77401725-77428960	25.236
Nudt16l1	0	0	0	369	6.15	28.4044	4.70844	Unclassified	chr16:4937110-4941025	1.916
Cyp2j5	0	0	0	21	0.35	0.035104	2.761826	Unclassified	chr4:96294122-96332810	36.689
Cdh22	0	0	0	203	3.383333	0.110794	1.920486	Unclassified	chr2:164937006-165062237	123.232
C87499	0	0	0	6	0.1	0	0	Unclassified	chr4:88273223-88282090	6.668
Fndc4	0	0	0	12	0.2	0.282298	1.21997	Unclassified	chr5:31594618-31600250	3.633
Tceal3	0	0	0	2	0.033333	0.070298	1	Unclassified	chrX:133198913-133202916	2.004
Ehbp1	0	0	0	278	4.633333	0.199383	0.509135	Unclassified	chr11:21905830-22187841	280.012
Rprd1b	0	0	0	906	15.1	10.315	21.42008	Unclassified	chr2:157852529-157903056	48.528
Zfp182	0	0	0	182	3.033333	1.24254	19.10183	Stalled	chrX:20603309-20641164	35.856
Spink4	0	0	0	53	0.883333	0.130446	0.721369	Unclassified	chr4:40865088-40878428	11.341
Csrnp2	0	0	0	321	5.35	0.779665	21.30291	Unclassified	chr15:100310000-100327670	15.671
Zfp750	0	0	0	73	1.216667	0	0.999036	Unclassified	chr11:121372290-121382656	8.367
Tns4	0	0	0	40	0.666667	0.048451	0.367181	Unclassified	chr11:98926992-98952620	23.629
C2cd2	0	0	0	195	3.25	1.89075	23.05177	Stalled	chr16:98076816-98146243	67.428
Grin2d	0	0	0	130	2.166667	0.67831	29.08029	Stalled	chr7:53087852-53124051	34.2
Fam64a	0	0	0	227	3.783333	16.9795	6.170594	Unclassified	chr11:71854003-71860872	4.87
Omd	0	0	0	12	0.2	0	0.46989	Unclassified	chr13:49676115-49687978	9.864
Grhpr	0	0	0	350	5.833333	44.4311	4.285991	Unclassified	chr4:44992282-45003568	9.287
Racgap1	0	0	0	486	8.1	18.9322	8.746198	Unclassified	chr15:99450926-99484052	31.127
Tmem139	0	0	0	13	0.216667	0.446951	0.126082	Unclassified	chr6:42209968-42214554	2.587
Cbr2	0	0	0	12	0.2	0.570866	0.70572	Unclassified	chr11:120590798-120595335	2.538
Cbl	0	0	0	1387	23.11667	7.8479	17.13304	Unclassified	chr9:43957344-44044129	84.786
Hmmr	0	0	0	647	10.78333	8.20525	17.68054	Unclassified	chr11:40514889-40548939	32.051
Hmga2	0	0	0	130	2.166667	0.636102	1.921747	Unclassified	chr10:119798330-119915991	115.662
Cbln2	0	0	0	6	0.1	0.104651	0.458699	Unclassified	chr18:86880439-86887675	5.237
Acs14	0	0	0	589	9.816667	5.57896	30.73915	Unclassified	chrX:138752535-138827078	72.544
Magi2	0	0	0	740	12.33333	1.51077	1.038659	Unclassified	chr5:19411335-20210609	797.275
Gabra5	0	0	0	60	1	0.047929	3.914279	Unclassified	chr7:64663038-64767379	102.342
Dnajc30	0	0	0	259	4.316667	25.121	9.170151	Unclassified	chr5:135538075-135541235	1.161
Sh3bgr	0	0	0	47	0.783333	0.09702	0.768628	Unclassified	chr16:96420076-96450540	28.465
Dmrt1	0	0	0	106	1.766667	0.216357	0.484188	Unclassified	chr19:25578195-25678818	98.624
Gjd2	0	0	0	6	0.1	0.015348	1.502488	Unclassified	chr2:113835336-113841355	4.02
Cyc1	0	0	0	471	7.85	74.4086	2.785172	Elongating	chr15:76171952-76176364	2.413
Defb46	0	0	0	3	0.05	0	1.102737	Unclassified	chr8:19237915-19242143	2.229
Tmprss11f	0	0	0	36	0.6	0.005993	0.758953	Unclassified	chr5:86950250-87063449	111.2
Mosc1	0	0	0	76	1.266667	0.053363	3.691488	Unclassified	chr1:186610645-186637192	24.548
Col24a1	0	0	0	171	2.85	0.034119	0	Unclassified	chr3:144953435-145214969	259.535
Csm3	0	0	0	437	7.283333	0.021625	0	Unclassified	chr15:47412183-48625535	1211.353
Grin2b	0	0	0	363	6.05	0.088753	1.105791	Unclassified	chr6:135679822-136125529	443.708
Cyt11	0	0	0	7	0.116667	0	0	Unclassified	chr5:38124757-38131059	4.303
Ccbl2	0	0	0	181	3.016667	3.42932	22.8722	Stalled	chr3:142362043-142407874	43.832
Gtf2b	0	0	0	724	12.06667	16.5821	26.98382	Unclassified	chr3:142426210-142446569	18.36
Zfp566	0	0	0	176	2.933333	4.58961	17.71216	Stalled	chr7:30862355-30877529	13.175
Olf147	0	0	0	0	0	0.032671	0	Unclassified	chr9:38207295-38211414	2.12
Utp14a	0	0	0	460	7.666667	11.4199	12.55391	Unclassified	chrX:45608110-45635626	25.517
Shisa9	0	0	0	269	4.483333	0.066173	1.565146	Unclassified	chr16:11982205-12270995	286.791
Wdr31	0	0	0	98	1.633333	1.11209	9.075063	Unclassified	chr4:62114767-62133906	17.14
Rbx1	0	0	0	871	14.51667	13.8926	9.3359	Unclassified	chr15:81294745-81306799	10.055
Adrm1	0	0	0	595	9.916667	36.4921	5.163474	Unclassified	chr2:179904292-179910988	4.697
Tspan3	0	0	0	238	3.966667	11.102	14.92578	Stalled	chr9:55983691-56010877	25.187
Vps29	0	0	0	358	5.966667	22.8426	32.3738	Stalled	chr5:122802421-122813296	8.876
Clip1	0	0	0	966	16.1	8.49857	16.50174	Unclassified	chr5:124029078-124136300	105.223
Pdhx	0	0	0	560	9.333333	7.89923	27.8685	Unclassified	chr2:102861233-102915668	52.436
Chrna6	0	0	0	11	0.183333	0.013231	0	Unclassified	chr8:28513683-28526416	10.734
Mrap2	0	0	0	62	1.033333	0.032014	1.175465	Unclassified	chr9:87037139-87078149	39.011
Sepp1	0	0	0	36	0.6	5.4723	3.781711	Unclassified	chr15:3218766-3230508	9.743
Pi4ka	0	0	0	996	16.6	9.81228	28.80568	Unclassified	chr16:17280443-17408407	125.965
Acat3	0	0	0	323	5.383333	12.4938	0.426965	Unclassified	chr17:13116824-13135262	16.439
Klhl22	0	0	0	171	2.85	2.81938	16.90039	Stalled	chr16:17757713-17793475	33.763
Dnahc5	0	0	0	178	2.966667	0.036935	1.825353	Unclassified	chr15:28131520-28401800	268.281
Ptcr1	0	0	0	19	0.316667	0.070035	1.278788	Unclassified	chr17:46892613-46902661	8.049
Grin1	0	0	0	104	1.733333	0.904646	1.467711	Unclassified	chr2:25147766-25176499	26.734
Pstpip2	0	0	0	164	2.733333	1.34818	6.014247	Unclassified	chr18:78031288-78121618	88.331
Rhox6	0	0	0	0	0	0.022207	0	Unclassified	chrX:35178231-35183034	2.804

Try10	0	0	0	0	0	0.064785	0	Unclassified	chr6:41302103-41307943	3.841
Tubb4	0	0	0	78	1.3	1.03315	1.309002	Unclassified	chr17:57219488-57229205	7.718
Tubb3	0	0	0	36	0.6	0.824226	3.102995	Unclassified	chr8:125933463-125945910	10.448
Ttll2	0	0	0	1	0.016667	0.051972	0	Unclassified	chr17:7555252-7559045	1.794
Wiz	0	0	0	1452	24.2	12.4661	3.010394	Unclassified	chr17:32491000-32528384	35.385
Cox6b2	0	0	0	58	0.966667	3.95419	1.677245	Unclassified	chr7:4703395-4706696	1.302
Tulp3	0	0	0	336	5.6	2.65979	29.87599	Stalled	chr6:128271178-128307869	34.692
Zfp326	0	0	0	425	7.083333	7.48685	19.94907	Unclassified	chr5:106303586-106344831	39.246
Snpb	0	0	0	61	1.016667	0.054666	0.414053	Unclassified	chr2:151416285-151460269	41.985
Wisp2	0	0	0	21	0.35	0.014465	0	Unclassified	chr2:163644569-163658880	12.312
Pak1ip1	0	0	0	382	6.366667	20.5919	11.5054	Unclassified	chr13:41094378-41108402	12.025
Fbxo28	0	0	0	486	8.1	2.87423	14.90061	Unclassified	chr1:184243232-184273737	28.506
Fam71b	0	0	0	8	0.133333	0.068141	0.720819	Unclassified	chr11:46216231-46221484	3.254
Cd96	0	0	0	269	4.483333	1.63934	16.85853	Stalled	chr16:46035769-46122361	84.593
Ctnnal1	0	0	0	510	8.5	6.21127	23.41337	Unclassified	chr4:56823808-56880083	54.276
Thy1	0	0	0	536	8.933333	79.1487	3.088735	Unclassified	chr9:43849466-43856662	5.197
5730409E04Rik	0	0	0	61	1.016667	0.944649	11.38658	Stalled	chr4:126285097-126291613	4.517
Thpo	0	0	0	35	0.583333	0.213078	0.952101	Unclassified	chr16:20724526-20736584	10.059
4930563D23Rik	0	0	0	8	0.133333	0.043056	0.591549	Unclassified	chr16:92319007-92323686	2.68
Atf7ip2	0	0	0	26	0.433333	0.224517	3.553806	Unclassified	chr16:10190998-10243144	50.147
Amac1	0	0	0	15	0.25	0.21351	0.42897	Unclassified	chr11:69573386-69577346	1.961
Naa10	0	0	0	369	6.15	49.1472	11.27895	Unclassified	chrX:71162213-71169252	5.04
Arl6	0	0	0	139	2.316667	7.92168	67.06861	Stalled	chr16:59613146-59641165	26.02
Klre1	0	0	0	5	0.083333	0.028075	0.620601	Unclassified	chr6:129526303-129535845	7.543
38973	0	0	0	21	0.35	0.030353	0	Unclassified	chr5:130189265-130216386	25.122
Fkbp1	0	0	0	31	0.516667	3.40923	4.558463	Unclassified	chr17:34779827-34783272	1.446
Ati2	0	0	0	793	13.21667	8.65817	15.71692	Unclassified	chr17:80247731-80297368	47.638
Elac1	0	0	0	310	5.166667	1.85847	12.62012	Unclassified	chr18:73894691-73916133	19.443
1110034B05Rik	0	0	0	317	5.283333	3.55411	23.90773	Unclassified	chr1:57445087-57465518	18.432
Adam5	0	0	0	35	0.583333	0.032144	0	Unclassified	chr8:25843456-25936841	91.386
Wfdc5	0	0	0	17	0.283333	0.019917	0.854635	Unclassified	chr2:164003096-164010477	5.382
1700011F03Rik	0	0	0	8	0.133333	0	0	Unclassified	chr6:70863082-70870916	5.835
Bpil2	0	0	0	47	0.783333	0.060064	0	Unclassified	chr10:85422435-85476605	52.171
Olfr716	0	0	0	1	0.016667	0	1	Unclassified	chr7:114288831-114291776	0.946
Zfp644	0	0	0	1356	22.6	2.37575	22.13147	Unclassified	chr5:107045759-107127849	80.091
Ajap1	0	0	0	125	2.083333	0.029252	0	Unclassified	chr4:152747329-152858939	109.611
Acta1	0	0	0	26	0.433333	0	0.607817	Unclassified	chr8:126415666-126420636	2.971
Jmy	0	0	0	259	4.316667	4.62874	14.67479	Stalled	chr13:94204156-94271644	65.489
Piwil1	0	0	0	17	0.283333	0.051993	0	Unclassified	chr5:129240120-129261349	19.23
Mgst1	0	0	0	34	0.566667	1.16883	4.088723	Unclassified	chr6:138087057-138105273	16.217
Zfp112	0	0	0	87	1.45	0.184504	1.749767	Unclassified	chr7:24895338-24912971	15.634
Adipoq	0	0	0	20	0.333333	0.14564	1.184157	Unclassified	chr16:23144608-23158041	11.434
Sec61a2	0	0	0	409	6.816667	2.61274	23.10987	Unclassified	chr2:5792032-5818399	24.368
Stk32c	0	0	0	144	2.4	0.404771	0.752569	Unclassified	chr7:146289536-146376393	84.858
Prtg	0	0	0	142	2.366667	0.163787	3.603942	Unclassified	chr9:72653080-72765114	110.035
Mocs2	0	0	0	106	1.766667	4.8032	18.2486	Stalled	chr13:115606444-115619628	11.185
Me1	0	0	0	121	2.016667	0.079202	1.991082	Unclassified	chr9:86474969-86591947	114.979
Npnt	0	0	0	68	1.133333	0.139726	2.087744	Unclassified	chr3:132545658-132615255	67.598
Lman1l	0	0	0	62	1.033333	0.09592	4.804348	Unclassified	chr9:57454839-57470581	13.743
Bpnt1	0	0	0	181	3.016667	5.6493	23.26593	Stalled	chr1:187154037-187181648	25.612
AA415398	0	0	0	220	3.666667	0.419638	8.580182	Unclassified	chr4:119202922-119213374	8.453
Sucnr1	0	0	0	4	0.066667	0.032632	0	Unclassified	chr3:59883790-59891488	5.699
Smad4	0	0	0	760	12.66667	6.74968	33.26213	Unclassified	chr18:73798666-73865395	64.73
Smad5	0	0	0	593	9.883333	2.96136	15.61466	Unclassified	chr13:56802370-56843739	39.37
Nek3	0	0	0	197	3.283333	1.09836	41.02158	Stalled	chr8:23238756-23278907	38.152
C1ql1	0	0	0	42	0.7	0.33971	6.142716	Unclassified	chr11:102800578-102809775	7.198
Nhp2	0	0	0	464	7.733333	117.842	2.424923	Elongating	chr11:51431274-51437216	3.943
Smad2	0	0	0	971	16.18333	13.6821	24.3321	Unclassified	chr18:76399578-76465385	63.808
1810048J11Rik	0	0	0	194	3.233333	2.35401	37.37073	Stalled	chr12:73635343-73681200	43.858
Mboat1	0	0	0	108	1.8	0.431511	3.636633	Unclassified	chr13:30226358-30338563	110.206
Idi2	0	0	0	4	0.066667	0.037093	0	Unclassified	chr13:8950108-8960181	8.074
Mettl7a1	0	0	0	66	1.1	2.61959	21.40567	Stalled	chr15:100133247-100144779	9.533
Dok6	0	0	0	154	2.566667	0.154414	0.754444	Unclassified	chr18:89470526-89940528	468.003
Adam2	0	0	0	46	0.766667	0.015072	1.057876	Unclassified	chr14:66646165-66698570	50.406
Tsc1	0	0	0	459	7.65	4.32026	20.50806	Unclassified	chr2:28494762-28546687	49.926
Zkscan4	0	0	0	5	0.083333	1.30003	0	Unclassified	chr13:21568775-21577374	6.6
Spdye4	0	0	0	9	0.15	0.01056	1.764415	Unclassified	chr5:143977994-143989561	9.568
Adam3	0	0	0	84	1.4	0.165697	10.0802	Stalled	chr8:25787705-25838297	48.593
Dyrk4	0	0	0	75	1.25	0.586793	1.573707	Unclassified	chr6:126826216-126859529	31.314
AY074887	0	0	0	271	4.516667	10.47	264	Unclassified	chr9:54798063-54800761	0.699
Rnf113a2	0	0	0	157	2.616667	16.1655	14.61538	Unclassified	chr12:85756149-85759528	1.38
Oas1a	0	0	0	64	1.066667	9.71812	2.459718	Unclassified	chr5:121346267-121359534	11.268
Dnajc28	0	0	0	33	0.55	3.01898	11.65836	Stalled	chr16:91614501-91621244	4.744
Rptn	0	0	0	8	0.133333	0.015456	0.404002	Unclassified	chr3:93195620-93203364	5.745
Zfp872	0	0	0	18	0.3	0.082267	6.49281	Unclassified	chr9:21990609-22006567	13.959
Tmem150a	0	0	0	212	3.533333	1.84419	1.22218	Elongating	chr6:72303476-72309756	4.281
Mapk15	0	0	0	20	0.333333	0.192577	1.07067	Unclassified	chr15:75822198-75829583	5.386
Eif4e1b	0	0	0	10	0.166667	0.099976	0.301737	Unclassified	chr13:54883363-54889819	4.457
Gpr113	0	0	0	68	1.133333	0.119818	0.292213	Unclassified	chr5:30519970-30534262	12.293
Mkx	0	0	0	59	0.983333	0.080077	2.871719	Unclassified	chr18:6934963-7006777	69.815
Zfp628	0	0	0	520	8.666667	6.22534	4.339163	Unclassified	chr7:4864818-4873605	6.788
1110007A13Rik	0	0	0	998	16.63333	10.9871	11.2342	Unclassified	chr7:135839972-135885943	43.972
Olfr802	0	0	0	0	0	0.068212	0	Unclassified	chr10:129118854-129121793	0.94
Defb34	0	0	0	6	0.1	0.260494	1.889182	Unclassified	chr8:19121751-19126540	2.79
Mmadhc	0	0	0	399	6.65	20.2326	20.93625	Unclassified	chr2:50135400-50154197	16.798
Cdh26	0	0	0	43	0.716667	0.026599	0.576276	Unclassified	chr2:178163311-178222071	56.761

Fytd1	0	0	0	377	6.283333	6.85762	29.55064	Stalled	chr16:32875869-32909049	31.181
Qser1	0	0	0	482	8.033333	0.754876	26.48684	Stalled	chr2:104594953-104658853	61.901
Vnn3	0	0	0	13	0.216667	0.092	0.591601	Unclassified	chr10:23569267-23569649	18.383
Olfr938	0	0	0	0	0	0	0	Unclassified	chr9:38885380-38888328	0.949
Paqr8	0	0	0	178	2.966667	0.614559	21.34896	Stalled	chr1:20878702-20928837	48.136
Epha7	0	0	0	66	1.1	0.262373	1.417627	Unclassified	chr4:28738294-28894649	154.356
Nt5e	0	0	0	102	1.7	0.588533	3.608587	Unclassified	chr9:88220477-88266927	44.451
Art2b	0	0	0	5	0.083333	0	0.605624	Unclassified	chr7:108727373-108731675	2.303
Art1	0	0	0	16	0.266667	0.171849	0.375195	Unclassified	chr7:109248256-109259662	9.407
Grid2	0	0	0	541	9.016667	0.033906	2.175257	Unclassified	chr6:63204850-64616273	1409.424
Grik2	0	0	0	216	3.6	0.045533	1.529042	Unclassified	chr10:48819268-49510560	689.293
Art5	0	0	0	33	0.55	0.657807	4.998454	Unclassified	chr7:109245392-109250743	3.352
Grik5	0	0	0	220	3.666667	1.89321	2.900519	Unclassified	chr7:25794869-25859388	62.52
Arc	0	0	0	17	0.283333	0.464677	0.416592	Unclassified	chrX:90529984-90543694	11.711
Dydc2	0	0	0	8	0.133333	0	0.729385	Unclassified	chr14:41862497-41884363	19.867
Nudt4	0	156.6688	0	493	8.216667	10.5574	8.434695	Unclassified	chr10:95009640-95028801	17.162
Katnal2	0	0	0	89	1.483333	1.25614	12.45587	Stalled	chr18:77231938-77288035	54.098
Pcbp2	0	0	0	1279	21.316667	85.1723	8.731883	Unclassified	chr15:102299062-102330490	29.429
Gm4907	0	0	0	3	0.05	1.36072	0	Unclassified	chrX:23467888-23484676	14.789
Lrrc36	0	0	0	46	0.766667	0.14206	0	Unclassified	chr8:107949539-107987986	36.448
Cst13	0	0	0	4	0.066667	0	0.756355	Unclassified	chr2:148643834-148656146	10.313
Wfdc10	0	0	0	4	0.066667	0	3	Unclassified	chr2:164479545-164482868	1.324
Gpr137	0	0	0	326	5.433333	6.3499	18.07362	Stalled	chr19:7012559-7017969	3.411
Larp7	0	0	0	380	6.333333	14.447	45.10816	Stalled	chr3:127239631-127258267	16.637
8430408G22Rik	0	0	0	35	0.583333	0	1.356471	Unclassified	chr6:116598701-116602865	2.165
BC117090	0	0	0	3	0.05	0.066156	1	Unclassified	chr16:36321750-36336418	12.669
Fdx1l	0	0	0	578	9.633333	26.0401	11.66838	Unclassified	chr9:20871963-20879958	5.996
Fam78b	0	0	0	123	2.05	0.159306	2.695084	Unclassified	chr1:168929547-169021433	89.887
Papola	0	0	0	1203	20.05	19.9783	17.66494	Unclassified	chr12:107020911-107077153	54.243
Serpnb2	0	0	0	6	0.1	0.20856	1.390569	Unclassified	chr1:109410049-109422175	10.127
4931406C07Rik	0	0	0	79	1.316667	1.47808	3.840552	Unclassified	chr9:15087782-15108000	18.219
BC002230	0	0	0	825	13.75	6.66672	6.241139	Unclassified	chr12:101363661-101399863	34.203
Pla2g4a	0	0	0	136	2.266667	0.79708	4.041196	Unclassified	chr1:151676751-151810414	131.664
Pla2g2d	0	0	0	11	0.183333	0.152845	1.559078	Unclassified	chr4:138329649-138338058	6.41
Frrmpd4	0	0	0	325	5.416667	0.013398	0.773256	Unclassified	chrX:163909240-165017165	1105.926
Serpine1	0	0	0	15	0.25	0.139953	0.410973	Unclassified	chr5:137537375-137550142	10.768
Timm8a1	0	0	0	196	3.266667	9.22914	11.51495	Stalled	chrX:131071796-131078168	4.373
Epha8	0	0	0	67	1.116667	0.576428	0.885882	Unclassified	chr4:136485333-136514731	27.399
Eri1	0	0	0	764	12.73333	8.7057	16.04021	Unclassified	chr8:36528318-36560587	30.27
D10Erdt322e	0	0	0	263	4.383333	29.6237	15.24052	Unclassified	chr10:94943439-94966561	21.123
Ndufa10	0	0	0	888	14.8	42.0907	12.30763	Unclassified	chr1:94336295-94372335	34.041
Cmtm5	0	0	0	7	0.116667	0.158404	0.622827	Unclassified	chr14:55553306-55558114	2.809
Spdef	0	0	0	47	0.783333	0.056212	1.871896	Unclassified	chr17:27851391-27867896	14.506
1110037F02Rik	0	0	0	798	13.3	7.56655	16.92688	Unclassified	chr4:11411104-11478290	65.187
Reg3d	0	0	0	4	0.066667	0	0	Unclassified	chr6:78325867-78330859	2.993
Pcsk1n	0	0	0	5	0.083333	0.105292	0	Unclassified	chrX:7494947-7501534	4.588
Rnf17	0	0	0	85	1.416667	0.077192	4.260906	Unclassified	chr14:57019533-57143868	122.336
4932438A13Rik	0	0	0	826	13.76667	3.71937	37.43037	Stalled	chr3:36760027-36951955	189.929
Timm9	0	0	0	534	8.9	11.6384	9.80041	Unclassified	chr12:72224158-72239662	13.505
Slc38a5	0	0	0	11	0.183333	0.207384	0	Unclassified	chrX:7846517-7857302	8.786
Zic2	0	0	0	19	0.316667	0.211662	0.792051	Unclassified	chr14:122872605-122879550	4.946
Gpx2	0	0	0	5	0.083333	0.053952	0	Unclassified	chr12:77893321-77898541	3.221
1810020D17Rik	0	0	0	306	5.1	5.64637	35.75235	Stalled	chr7:104698850-104729925	29.076
1810012P15Rik	0	0	0	210	3.5	0.862299	14.60988	Stalled	chr11:78638096-78657401	17.306
Ankra2	0	0	0	405	6.75	6.03425	47.86937	Stalled	chr13:99031196-99043868	10.673
1810013D10Rik	0	0	0	393	6.55	11.4692	10.04598	Unclassified	chr5:53656344-53669778	11.435
1110032A04Rik	0	0	0	25	0.416667	0.043892	0	Unclassified	chr3:69623462-69665818	40.357
Gpx3	0	0	0	216	3.6	3.88711	0.311927	Unclassified	chr11:54714354-54723889	7.536
Hsd17b7	0	0	0	593	9.883333	6.30864	32.28966	Unclassified	chr1:171879667-171901336	19.67
Zymy2	0	0	0	423	7.05	2.98229	12.59816	Stalled	chr14:57504630-57579186	72.557
Mccc1	0	0	0	254	4.233333	4.76546	20.78236	Stalled	chr3:35858230-35901600	41.371
BC017647	0	0	0	841	14.01667	3.94204	22.76099	Unclassified	chr11:77906174-77970841	62.668
BC030499	0	0	0	77	1.283333	0.414292	1.324326	Unclassified	chr11:78102342-78107247	2.906
Proca1	0	0	0	193	3.216667	0.245653	0.056759	Unclassified	chr11:78004893-78019265	12.373
Rpl4	0	0	0	969	16.15	1260.11	4.28189	Unclassified	chr9:64019193-64026369	5.177
Ythdf1	0	0	0	750	12.5	14.9809	7.305473	Unclassified	chr2:180639081-180657641	16.561
Nomo1	0	0	0	1283	21.38333	22.1031	10.95777	Unclassified	chr7:53287065-53339582	50.518
Ikzf2	0	0	0	98	1.633333	0.080226	0	Unclassified	chr1:69577783-69734534	154.752
Dvwa	0	0	0	93	1.55	0.16197	0	Unclassified	chr9:105892649-106001022	106.374
BC048679	0	0	0	10	0.166667	0	0.601119	Unclassified	chr7:88639160-88645167	4.008
Asah1	0	0	0	574	9.566667	9.39937	36.30788	Unclassified	chr8:42425996-42462051	34.056
Capn8	0	0	0	95	1.583333	0.073241	0.843321	Unclassified	chr1:184493137-184562483	67.347
Car12	0	0	0	162	2.7	0.896779	12.33389	Stalled	chr9:66559492-66614651	53.16
Nxf7	0	0	0	8	0.133333	0	0	Unclassified	chrX:132114325-132130394	14.07
Bex4	0	0	0	1	0.016667	0.273368	0	Unclassified	chrX:132671583-132674974	1.392
Card14	0	0	0	74	1.233333	0.031515	0.882493	Unclassified	chr11:119174100-119206689	30.59
Krt83	0	0	0	13	0.216667	0.004331	0	Unclassified	chr15:101261920-101271235	7.316
Panx2	0	0	0	28	0.466667	0.364356	0.920622	Unclassified	chr15:88888155-88901337	11.183
Scrt1	0	0	0	21	0.35	0.29404	0.644801	Unclassified	chr15:76346632-76354559	5.928
Rtn4ip1	0	0	0	665	11.08333	10.1886	20.77805	Unclassified	chr10:43619612-43667668	46.057
Ttc8	0	0	0	126	2.1	2.04157	11.96113	Stalled	chr12:100156783-100221448	62.666
Slc17a7	0	0	0	36	0.6	0.662717	2.712889	Unclassified	chr7:52417290-52431508	12.219
Tsen54	0	0	0	252	4.2	15.1793	10.87489	Unclassified	chr11:115674052-115684416	8.365
Nup107	0	0	0	958	15.96667	13.0142	13.78017	Unclassified	chr10:117187698-117231761	42.064
Slc39a3	0	0	0	59	0.983333	2.56518	0.888708	Unclassified	chr10:80491284-80498657	5.374
Slc4a7	0	0	0	1378	22.96667	6.85557	18.62571	Unclassified	chr14:15533538-15632457	96.92

D930020E02Rik	0	0	0	7	0.116667	0.05983	0	Unclassified	chr14:69908456-69914356	3.901
Rspo3	0	0	0	48	0.8	0.171313	1.9819	Unclassified	chr10:29172914-29257673	82.76
Olfr215	0	0	0	2	0.033333	0	2	Unclassified	chr6:116532029-116534962	0.934
Olfr98	0	0	0	3	0.05	0.295869	2	Unclassified	chr17:37399677-37402607	0.931
Olfr107	0	0	0	1	0.016667	0.067848	1	Unclassified	chr17:37540421-37543453	1.033
Slc25a21	0	0	0	265	4.416667	0.525485	0.64785	Unclassified	chr12:57813620-58300459	484.84
Olfr95	0	0	0	1	0.016667	0.191085	1	Unclassified	chr17:37347857-37350796	0.94
Olfr96	0	0	0	2	0.033333	0	0	Unclassified	chr17:37360071-37363013	0.943
Olfr99	0	0	0	33	0.55	1.34091	16	Unclassified	chr17:37416445-37419363	0.919
Lor	0	0	0	6	0.1	0.799252	0.318917	Unclassified	chr3:91884192-91889064	2.873
Dda1	0	0	0	561	9.35	19.3165	2.518095	Elongating	chr8:73991092-74000334	7.243
Gle1	0	0	0	346	5.766667	15.5329	18.40708	Unclassified	chr2:29788946-29814175	23.23
Prim2	0	0	0	1354	22.56667	8.88515	33.94937	Unclassified	chr1:33510655-33728603	215.949
Prg2	0	0	0	16	0.266667	11.8664	3.168152	Unclassified	chr2:84818617-84823789	3.173
Prim1	0	0	0	228	3.8	18.2642	7.496774	Unclassified	chr10:127450270-127467086	14.817
Kif1b	0	0	0	269	4.483333	1.25475	24.93746	Stalled	chr4:148550429-148683807	131.379
Prkab1	0	0	0	538	8.966667	10.4321	8.892842	Unclassified	chr5:116463598-116476437	10.84
Gpatch1	0	0	0	366	6.1	5.04666	13.81976	Unclassified	chr7:36061562-36105459	41.898
Kcng3	0	0	0	87	1.45	0.450528	4.263757	Unclassified	chr17:83985296-84033235	45.94
Nrsn1	0	0	0	26	0.433333	0.044973	0.40418	Unclassified	chr13:25343907-25363865	17.959
Vnn1	0	0	0	11	0.183333	0.031829	0	Unclassified	chr10:23612493-23625149	10.657
Vpreb1	0	0	0	4	0.066667	0.084087	2	Unclassified	chr16:16868495-16871343	0.849
Vpreb2	0	0	0	3	0.05	0	2	Unclassified	chr16:17978657-17981173	0.517
Accn4	0	0	0	95	1.583333	0.130581	0.846947	Unclassified	chr1:75445084-75470915	23.832
Scrt2	0	0	0	35	0.583333	0.245451	0.35612	Unclassified	chr2:151905264-151921537	14.274
Commd8	0	0	0	298	4.966667	4.31788	16.10739	Unclassified	chr5:72548238-72561422	11.185
Btc	0	0	0	17	0.283333	0.068782	1.4971	Unclassified	chr5:91786286-91833939	45.654
Golim4	0	0	0	445	7.416667	6.21849	50.29583	Stalled	chr3:75680305-75762753	80.449
Rap1b	0	0	0	1265	21.08333	48.977	9.768797	Unclassified	chr10:117251652-117285030	31.379
Entpd3	0	0	0	32	0.533333	0.048378	0.504596	Unclassified	chr9:120446935-120477435	28.501
Ccdc109a	0	0	0	898	14.96667	2.5396	21.87338	Unclassified	chr10:58911180-59081440	168.261
Plekhm2	0	0	0	2171	36.18333	18.2126	3.014476	Unclassified	chr4:141181648-141222030	38.383
Hfe2	0	0	0	15	0.25	0.215614	1.260284	Unclassified	chr3:96327107-9633139	4.033
Pcgf3	0	0	0	528	8.8	2.58286	14.56865	Unclassified	chr5:108888350-108932118	41.769
Mid2	0	0	0	17	0.283333	0.021664	0.847166	Unclassified	chrX:137210566-137302254	89.689
Anxa2	0	0	0	88	1.466667	1.80932	1.278302	Unclassified	chr9:69299489-69339592	38.104
BC018242	0	0	0	31	0.516667	1.1644	0.526	Unclassified	chr9:21740717-21753351	10.635
Sfrs4	0	0	0	1356	22.6	52.61	11.54849	Unclassified	chr4:131427553-131457640	28.088
Kank2	0	0	0	74	1.233333	0.314195	3.317165	Unclassified	chr9:21571216-21604990	31.775
Flywch2	0	0	0	58	0.966667	1.75107	3.433471	Unclassified	chr17:23913884-23925044	9.161
Mnd1	0	0	0	392	6.533333	2.05813	35.04719	Stalled	chr3:83891855-83961708	67.854
Btg3	0	0	0	436	7.266667	3.51191	13.8282	Unclassified	chr16:78360104-78379030	16.927
Gm5169	0	0	0	0	0	0	0	Unclassified	chrX:24704608-24730581	23.974
Gm5168	0	0	0	0	0	0	0	Unclassified	chrX:25455339-25480167	22.829
Olfr201	0	0	0	0	0	0.027651	0	Unclassified	chr16:59268564-59271491	0.928
Hoxa3	0	0	0	133	2.216667	0.096669	1.279895	Unclassified	chr6:52119061-52165066	44.006
Btnl6	0	0	0	12	0.2	0.072829	0.483323	Unclassified	chr17:34644879-34656297	9.419
Tshb	0	0	0	7	0.116667	0	0.463404	Unclassified	chr3:102581320-102588637	5.318
Tshr	0	0	0	95	1.583333	0.095667	4.338022	Unclassified	chr12:92637432-92778949	139.518
Arpc5	0	0	0	534	8.9	75.8386	7.507259	Unclassified	chr1:154611671-154622708	9.038
Mlit3	0	0	0	1670	27.83333	4.31119	15.11663	Unclassified	chr4:87415828-87681311	263.484
Aadacl3	0	0	0	5	0.083333	0	0.749729	Unclassified	chr4:144043673-144055659	9.987
Olfr556	0	0	0	1	0.016667	0.037585	1	Unclassified	chr7:109816414-109819437	1.024
Mex3c	0	0	0	740	12.33333	7.82324	23.31433	Unclassified	chr18:73730358-73752232	19.875
Reg3a	0	0	0	3	0.05	0	0.515973	Unclassified	chr6:78328702-78333833	3.132
Reg3g	0	0	0	2	0.033333	0	0	Unclassified	chr6:78416261-78420868	2.608
Reg2	0	0	0	1	0.016667	0	1	Unclassified	chr6:78353148-78358091	2.944
BC017158	0	0	0	201	3.35	4.94415	11.53983	Stalled	chr7:135414893-135443645	26.753
4933402N03Rik	0	0	0	4	0.066667	0.044156	2.622071	Unclassified	chr7:138281860-138291797	7.938
Gpr26	0	0	0	25	0.416667	0.054947	0.441409	Unclassified	chr7:139156142-139177316	19.175
Gstp1	0	0	0	325	5.416667	73.451	7.791799	Unclassified	chr19:4035410-4039912	2.503
Actn1	0	0	0	316	5.266667	2.49197	5.649868	Unclassified	chr12:81268529-81363358	92.83
Gsto1	0	0	0	172	2.866667	8.85178	13.42506	Stalled	chr19:47927478-47939278	9.801
Olfr978	0	0	0	1	0.016667	0.020523	1	Unclassified	chr9:39799396-39802332	0.937
Olfr550	0	0	0	2	0.033333	0	1	Unclassified	chr7:109724982-109728019	1.038
Olfr555	0	0	0	1	0.016667	0	0	Unclassified	chr7:109805336-109808284	0.949
Mycn	0	0	0	27	0.45	0.508506	1.506828	Unclassified	chr12:12942898-12950642	5.745
Olfr549	0	0	0	11	0.183333	0	4	Unclassified	chr7:109700799-109703749	0.951
Olfr614	0	0	0	1	0.016667	0.00998	0	Unclassified	chr7:110696881-110704018	5.138
Olfr616	0	0	0	3	0.05	0.040345	2	Unclassified	chr7:110712838-110715791	0.954
Olfr630	0	0	0	4	0.066667	0.016591	0	Unclassified	chr7:110902663-110907864	3.202
Rybp	0	0	0	405	6.75	3.45147	14.62146	Stalled	chr6:100178558-100239352	58.795
Ptges3	0	0	0	1202	20.03333	22.166	15.7295	Unclassified	chr10:127494037-127514310	18.274
Gltp	0	0	0	467	7.783333	26.9272	11.25354	Unclassified	chr5:115119510-115142944	21.435
Ivd	0	0	0	306	5.1	11.2209	10.54915	Unclassified	chr2:118685735-118707093	19.359
Mip	0	0	0	67	1.116667	1.26755	0.481646	Unclassified	chr10:127660893-127668867	5.975
Rb1	0	129.7257	0	747	12.45	3.32493	17.04651	Unclassified	chr14:73595308-73727598	130.291
Copz2	0	0	0	44	0.733333	1.65512	1.630933	Unclassified	chr11:96709189-96722516	11.328
Olfr935	0	0	0	0	0	0	0	Unclassified	chr9:38802091-38805018	0.928
Klh17	0	0	0	338	5.633333	2.4577	20.11036	Stalled	chr5:23604407-23667048	60.642
Mnpp1	0	0	0	651	10.85	11.7604	43.38341	Unclassified	chr19:32558258-32589860	29.603
Zbtb43	0	0	0	426	7.1	2.67281	14.34419	Unclassified	chr2:33305807-33326052	18.246
Itih1	0	0	0	22	0.366667	0.012496	0.842853	Unclassified	chr14:31742365-31758475	14.111
Itih2	0	0	0	78	1.3	0.073893	0.313077	Unclassified	chr2:10016217-10054310	36.094
Itih3	0	0	0	36	0.6	0.022748	0.596193	Unclassified	chr14:31721759-31738773	15.015
Itih4	0	0	0	47	0.783333	0.008158	0.783504	Unclassified	chr14:31697677-31715169	15.493

Itgb6	0	0	0	144	2.4	0.050346	0	Unclassified	chr2:60436349-60562660	124.312
Nrbp2	0	0	0	16	0.266667	0.159034	0.509798	Unclassified	chr15:75916023-75922443	4.421
Slc15a5	0	0	0	88	1.466667	0.011423	0.522838	Unclassified	chr6:137932110-138030437	96.328
Pghd9	0	0	0	1044	17.4	27.9324	2.599914	Elongating	chr3:98117093-98145892	26.8
Cc2d2a	0	0	0	104	1.733333	0.059533	1.766713	Unclassified	chr5:44051684-44132209	78.526
Zfp352	0	0	0	3	0.05	0.056644	0.745838	Unclassified	chr4:89883510-89892378	6.869
Lpgat1	0	0	0	1109	18.48333	15.2139	11.88266	Unclassified	chr1:193539902-193608132	66.231
Usp46	0	0	0	497	8.283333	1.7881	31.39844	Stalled	chr5:74396061-74466436	68.376
Smyd3	0	0	0	1960	32.66667	5.08995	25.46992	Stalled	chr1:180885169-181450134	562.966
1810013L24Rik	0	0	0	1183	19.71667	8.50524	14.9931	Unclassified	chr16:8828192-8859017	28.826
Psph	0	0	0	561	9.35	22.4858	48.01	Unclassified	chr5:130271433-130295129	21.697
Gsdmc3	0	0	0	7	0.116667	0.008445	0	Unclassified	chr15:63689279-63712113	20.835
Rragd	0	0	0	62	1.033333	0.535771	4.379703	Unclassified	chr4:33067972-33109155	39.184
Odf2l	0	0	0	374	6.233333	4.51663	47.06802	Stalled	chr3:144779563-144816879	35.317
Rgs7	0	0	0	252	4.2	0.244729	1.91226	Unclassified	chr1:176989206-177424676	433.471
Olf178	0	0	0	0	0	0.028247	0	Unclassified	chr16:58889084-58892044	0.961
Gm5132	0	0	0	0	0	0	0	Unclassified	chrX:9149085-9151517	0.433
Ptx3	0	0	0	9	0.15	0.106692	0.4506	Unclassified	chr3:66021808-66029728	5.921
Spata7	0	0	0	127	2.116667	2.4057	9.425826	Unclassified	chr12:99864393-99908024	41.632
Cyp2d34	0	0	0	7	0.116667	0.02462	0.567972	Unclassified	chr15:82446394-82453337	4.944
Cyp24a1	0	0	0	16	0.266667	0.066104	2.724922	Unclassified	chr2:170308464-170324638	14.175
Clec2h	0	0	0	10	0.166667	0.036222	1.272297	Unclassified	chr6:128610403-128627389	14.987
Lca5	0	0	0	190	3.166667	1.43135	22.00028	Stalled	chr9:83284961-83336706	49.746
Prr18	0	0	0	12	0.2	0.425071	0.850746	Unclassified	chr17:8531603-8536977	3.375
A730017C20Rik	0	0	0	12	0.2	0.046268	0	Unclassified	chr18:59220034-59236612	14.579
C030019I05Rik	0	0	0	111	1.85	2.56506	0.81412	Unclassified	chr11:46047058-46053373	4.316
Gm595	0	0	0	9	0.15	0	0	Unclassified	chrX:46194642-46232890	36.249
Rbmx2	0	0	0	138	2.3	5.93893	20.50751	Stalled	chrX:46046180-46063896	15.717
Esm1	0	0	0	10	0.166667	0.109528	1.661411	Unclassified	chr13:113997866-114008312	8.447
2310047M10Rik	0	0	0	202	3.366667	19.4633	7.216761	Unclassified	chr11:68871276-68875078	1.803
Epgn	0	0	0	4	0.066667	0.015043	0	Unclassified	chr5:91454542-91464238	7.697
Colec11	0	0	0	57	0.95	0.064869	2.955267	Unclassified	chr12:29279037-29310155	29.119
Vps72	0	0	0	240	4	21.3507	19.0834	Stalled	chr3:94912963-94926973	12.011
Slc41a3	0	0	0	115	1.916667	0.545134	3.412575	Unclassified	chr6:90552873-90596406	41.534
Slc43a1	0	0	0	136	2.266667	4.72257	1.382024	Unclassified	chr2:84677564-84703743	24.18
Zfhx4	0	0	0	88	1.466667	0.034179	1.405663	Unclassified	chr3:5216553-5415855	197.303
Fcr1s	0	0	0	25	0.416667	0.766018	1.134878	Unclassified	chr3:87054886-87069446	12.561
Avp	0	0	0	7	0.116667	0.39149	0.604327	Unclassified	chr2:130406412-130410277	1.866
Fgf14	0	0	0	271	4.516667	0	0.721028	Unclassified	chr14:124377512-125078349	698.838
Fgf13	0	0	0	32	0.533333	0.658038	1.465499	Unclassified	chrX:56315327-56389613	72.287
Fgd1	0	0	0	225	3.75	0.287967	0.309678	Unclassified	chrX:147479775-147523629	41.855
Lgr5	0	0	0	134	2.233333	0.323741	1.039883	Unclassified	chr10:114887369-115026836	137.468
Fgf12	0	0	0	286	4.766667	0.037794	0	Unclassified	chr16:28160183-28755288	593.106
Fgf11	0	0	0	81	1.35	1.58734	0.579237	Unclassified	chr11:69611703-69617127	3.425
Fgf10	0	0	0	38	0.633333	0.054582	2.773405	Unclassified	chr13:119501505-119581380	77.876
Fgf1	0	0	0	120	2	0.062295	0	Unclassified	chr18:38998326-39080353	80.028
Ifi44	0	0	0	20	0.333333	0.586166	1.029625	Unclassified	chr3:151393886-151414923	19.038
A830018L16Rik	0	0	0	239	3.983333	0.034177	0.70293	Unclassified	chr1:11402192-11965982	561.791
Gulo	0	0	0	39	0.65	0.039609	2.005147	Unclassified	chr14:66605623-66630047	22.425
Ccdc51	0	0	0	361	6.016667	3.15418	31.46257	Stalled	chr9:108983009-108995877	10.869
Prrx1	0	0	0	59	0.983333	0.137386	1.102283	Unclassified	chr1:165175249-165245781	68.533
Acp6	0	0	0	196	3.266667	14.0901	16.6634	Stalled	chr3:96960699-96980499	17.801
Dcn	0	0	0	23	0.383333	0.021772	0	Unclassified	chr10:96943000-96980785	35.786
Dck	0	0	0	495	8.25	8.52369	25.34174	Unclassified	chr5:89192037-89212302	18.266
Creb12	0	0	0	241	4.016667	3.06201	54.90266	Stalled	chr6:134778216-134807901	27.686
Dbx1	0	0	0	41	0.683333	0.425771	0.4411	Unclassified	chr7:56886868-56894205	5.338
Dc1k1	0	0	0	209	3.483333	0.083132	1.767805	Unclassified	chr3:55044447-55342990	296.544
Dci	0	0	0	526	8.766667	16.8636	32.86497	Unclassified	chr17:24561627-24576261	12.635
Dcc	0	0	0	476	7.933333	0.037239	0.698618	Unclassified	chr18:71413285-72512723	1097.439
Prf1	0	0	0	41	0.683333	1.76549	5.573662	Unclassified	chr10:60758583-60767011	6.429
Cdk14	0	0	0	430	7.166667	0.221826	2.310709	Unclassified	chr5:4803384-5382251	576.868
Olf15	0	0	0	3	0.05	0.109191	1	Unclassified	chr16:3836974-3839913	0.94
Fut2	0	0	0	33	0.55	0.140854	0	Unclassified	chr7:52903964-52923678	17.715
Pfkm	0	0	0	112	1.866667	5.12889	1.176272	Unclassified	chr15:97940490-97962879	20.39
Olf19	0	0	0	2	0.033333	0.110248	1	Unclassified	chr16:16673142-16676072	0.931
Mrpl9	0	0	0	310	5.166667	37.7891	12.94083	Unclassified	chr3:94245257-94252630	5.374
Nr3c2	0	0	0	305	5.083333	0.028223	4.944329	Unclassified	chr8:79424406-79767538	341.133
Pgam1	0	0	0	436	7.266667	47.5808	8.669139	Unclassified	chr19:41984360-41993155	6.796
Fut9	0	0	0	61	1.016667	0.012797	0	Unclassified	chr4:25536479-25729150	190.672
Myo7b	0	0	0	118	1.966667	0.023287	1.21294	Unclassified	chr18:32118889-32198585	77.697
Myo6	0	0	0	159	2.65	0.487063	9.211678	Unclassified	chr9:80010840-80159535	146.696
Myoc	0	0	0	17	0.283333	0.030809	2.32308	Unclassified	chr1:164567280-164579825	10.546
Myod1	0	0	0	7	0.116667	0.234843	0.701299	Unclassified	chr7:53629843-53634462	2.62
Akr1d1	0	0	0	25	0.416667	0.052102	0	Unclassified	chr6:37478172-37518815	38.644
Diras1	0	0	0	21	0.35	0.096561	1.346057	Unclassified	chr10:80482334-80490122	5.789
Dhrs9	0	0	0	24	0.4	0.109191	0.507343	Unclassified	chr2:69216518-69241143	22.626
Sfrp4	0	0	0	6	0.1	0.153068	2.227335	Unclassified	chr13:19713043-19724690	9.648
Mkin1	0	0	0	753	12.55	5.71283	20.64668	Unclassified	chr6:31346827-31459477	110.651
Foxp3	0	0	0	80	1.333333	0	0.324827	Unclassified	chrX:7154818-7172360	15.543
Sez6	0	0	0	99	1.65	0.037603	1.404941	Unclassified	chr11:77742444-77792544	48.101
Abcb11	0	0	0	44	0.733333	0.047129	0	Unclassified	chr2:69076338-69182673	104.336
Peg12	0	0	0	4	0.066667	0.300705	0.621356	Unclassified	chr7:69606756-69611396	2.641
Sfrp1	0	0	0	47	0.783333	0.161304	0.938456	Unclassified	chr8:24519973-24560102	38.13
Lypd1	0	0	0	39	0.65	0.013951	1.606062	Unclassified	chr1:127768618-127810791	40.174
2610030H06Rik	0	0	0	220	3.666667	2.19191	35.31054	Stalled	chrX:69060117-69070045	7.929
Cul4b	0	0	0	316	5.266667	4.76118	0.245106	Unclassified	chrX:35884797-35931373	44.577

Fam18b	0	0	0	403	6.716667	8.44544	23.84481	Unclassified	chr11:62690991-62708686	15.696
Rab3ip	0	0	0	382	6.366667	3.25848	16.93705	Unclassified	chr10:116342839-116389436	44.598
Olfr1061	0	0	0	1	0.016667	0	0	Unclassified	chr2:86253265-86256207	0.943
5730494M16Rik	0	0	0	172	2.866667	1.80272	44.756	Stalled	chr18:25285723-25329378	41.656
Uts2r	0	0	0	8	0.133333	0.022577	3	Unclassified	chr11:121019584-121023287	1.704
Mrgpra2	0	0	0	2	0.033333	0.04059	0	Unclassified	chr7:54719176-54746952	25.777
Sdr16c6	0	0	0	10	0.166667	0	0	Unclassified	chr4:3983812-4006661	20.85
Tjap1	0	0	0	586	9.766667	9.58704	4.36185	Unclassified	chr17:46394824-46421962	25.139
Nploc4	0	0	0	1304	21.73333	15.0921	10.35626	Unclassified	chr11:120241684-120300982	57.299
Sike1	0	0	0	299	4.983333	5.80493	18.07299	Unclassified	chr3:102797662-102807837	8.176
Sar1b	0	0	0	472	7.866667	34.8034	12.38	Unclassified	chr11:51575164-51605455	28.292
Gm5897	0	0	0	24	0.4	3.11087	1.062765	Unclassified	chr7:53038301-53041837	1.537
Tmem136	0	0	0	21	0.35	0.168443	2.084141	Unclassified	chr9:42916735-42926653	7.919
Sphkap	0	0	0	81	1.35	0.013777	1.331636	Unclassified	chr1:83252355-83406775	152.421
Npl	0	0	0	93	1.55	0.438477	3.93657	Unclassified	chr1:155350145-155398844	46.7
Sohlh1	0	0	0	11	0.183333	0.069708	0	Unclassified	chr2:25698516-25704768	4.253
Olfr1475	0	0	0	0	0	0	0	Unclassified	chr19:13553741-13556686	0.946
Pkfb4	0	0	0	410	6.833333	3.71145	28.62497	Stalled	chr9:108891946-108934739	40.794
Slc16a6	0	0	0	1442	24.03333	9.9522	12.75509	Unclassified	chr11:109312169-109336910	22.742
Olfr1461	0	0	0	0	0	0	0	Unclassified	chr19:13237505-13240444	0.94
Tyw1	0	0	0	797	13.28333	8.52202	32.68181	Unclassified	chr5:130730906-130817437	84.532
BC031748	0	0	0	98	1.633333	2.40041	31.95417	Stalled	chrX:133582132-133617038	32.907
Olfr1457	0	0	0	2	0.033333	0	0	Unclassified	chr19:13169182-13172136	0.955
Olfr459	0	0	0	1	0.016667	0	1	Unclassified	chr6:41721351-41724296	0.946
Gm5158	0	0	0	12	0.2	0.042387	1.380652	Unclassified	chr8:95580625-95605916	23.292
BC030500	0	0	0	3	0.05	0.127764	0	Unclassified	chr8:61388551-61393093	2.543
4930402E16Rik	0	0	0	268	4.466667	3.03811	5.49296	Unclassified	chr8:113616644-113659044	40.401
Dhx15	0	0	0	1068	17.8	39.2376	14.62897	Unclassified	chr5:52541447-52583758	40.312
Fam115c	0	0	0	14	0.233333	0.042149	1.96875	Unclassified	chr6:42573041-42597040	22
Dnahc9	0	0	0	385	6.416667	0.024192	0.469443	Unclassified	chr11:65644825-65984053	337.229
Hoxd8	0	0	0	9	0.15	0.153004	5	Unclassified	chr2:74541545-74545364	1.82
Hoxd3	0	0	0	60	1	0.070662	1.146944	Unclassified	chr2:74548049-74586328	36.28
Hoxd12	0	0	0	7	0.116667	0.142573	0.912157	Unclassified	chr2:74511086-74515762	2.677
Cckar	0	0	0	13	0.216667	0.043757	0.855419	Unclassified	chr5:54089723-54100943	9.221
Cckbr	0	0	0	16	0.266667	0.051616	0.404762	Unclassified	chr7:112572333-112584852	10.52
Ccna1	0	0	0	14	0.233333	0.081841	2.070895	Unclassified	chr3:54849390-54860977	9.588
Nlrc4	0	0	0	241	4.016667	2.28205	3.879633	Unclassified	chr17:74825634-74860448	32.815
Arhgap28	0	0	0	124	2.066667	0.164034	1.722262	Unclassified	chr17:68192049-68355448	161.4
Ltbp1	0	0	0	362	6.033333	0.198446	1.036653	Unclassified	chr17:75402868-75791109	386.242
Hoxd9	0	0	0	4	0.066667	0.167826	0.419785	Unclassified	chr2:74533819-74538265	2.447
Olfr1012	0	0	0	1	0.016667	0.041078	0	Unclassified	chr2:85599595-85602531	0.937
5830405N20Rik	0	0	0	122	2.033333	2.16649	9.947304	Unclassified	chr10:129757907-129799698	39.792
Olfr1115	0	0	0	1	0.016667	0	1	Unclassified	chr2:87089996-87093098	1.103
Zfp397os	0	0	0	13	0.216667	0.038087	0	Unclassified	chr18:24129475-24142056	10.582
Olfr745	0	0	0	1	0.016667	0.038955	0	Unclassified	chr14:51259869-51263044	1.176
Elavl1	0	0	0	1072	17.86667	5.59548	12.7824	Unclassified	chr8:4284781-4327100	40.32
Krtap5-1	0	0	0	2	0.033333	0.046738	2	Unclassified	chr7:149482281-149484974	0.694
Kcnq3	0	0	0	230	3.833333	0.039104	0.562278	Unclassified	chr15:65826477-66119786	291.31
Atp11a	0	0	0	1598	26.63333	6.85051	4.124159	Unclassified	chr8:12755015-12868728	111.714
Olfr115	0	0	0	1	0.016667	0	1	Unclassified	chr17:37746730-37749724	0.995
Spats2	0	0	0	90	1.5	0.080958	1.009682	Unclassified	chr15:98955275-99042897	85.623
Adam1b	0	0	0	14	0.233333	0.543852	0.292588	Unclassified	chr5:121950105-121954989	2.885
Tmem74	0	0	0	11	0.183333	0.166721	0.840691	Unclassified	chr15:43698240-43703575	3.336
Rgl3	0	0	0	35	0.583333	0.120624	1.442891	Unclassified	chr9:21775970-21795897	17.928
Pipox	0	0	0	118	1.966667	0.657433	0	Unclassified	chr11:77694116-77709374	13.259
Psp	0	0	0	4	0.066667	0	0.772701	Unclassified	chr2:153832011-153841809	7.799
Pspn	0	0	0	50	0.833333	0.162575	20	Unclassified	chr17:57138880-57141441	0.562
1700007K09Rik	0	0	0	10	0.166667	0	0.782344	Unclassified	chr7:138469444-138475013	3.57
Shf	0	0	0	311	5.183333	3.55301	12.23054	Unclassified	chr2:122174627-122196654	20.028
Afm	0	0	0	12	0.2	0.038031	0	Unclassified	chr5:90945974-90982570	34.597
Xcr1	0	27.94093	0	56	0.933333	0.276301	0.4495	Unclassified	chr9:123761435-123773246	9.812
Mybphl	0	0	0	40	0.666667	0.060265	1.500382	Unclassified	chr3:108165828-108182975	15.148
Gm6484	0	0	0	33	0.55	0.088899	1.328883	Unclassified	chr9:21637953-21641791	1.839
Bend7	0	0	0	85	1.416667	0.161457	2.009608	Unclassified	chr2:4637190-4721971	82.782
Fam92b	0	0	0	24	0.4	0.032365	0.669947	Unclassified	chr8:122690296-122703369	11.074
Gm5868	0	0	0	2	0.033333	0.255078	0	Unclassified	chr5:72972877-72980789	5.913
Herc3	0	0	0	253	4.216667	2.15427	0.770439	Unclassified	chr6:58781693-58870390	86.698
Cyp2ab1	0	0	0	24	0.4	0.037488	0.421342	Unclassified	chr16:20308459-20327477	17.019
Pacs1	0	0	0	700	11.66667	5.07301	45.64571	Stalled	chr19:5133684-5275119	139.436
Atl1	0	0	0	357	5.95	0.38449	27.19803	Stalled	chr12:70992255-71065018	70.764
Frs3	0	0	0	64	1.066667	0.498246	5.704559	Unclassified	chr17:47830155-47841235	9.081
Gldc	0	0	0	146	2.433333	0.040947	0.346951	Unclassified	chr19:30172936-30251908	76.973
Car14	0	0	0	119	1.983333	0.191791	0.247834	Unclassified	chr3:95701722-95710562	6.841
Stmn3	0	0	0	30	0.5	0.338459	2.163499	Unclassified	chr2:181041163-181051205	8.043
Sox30	0	0	0	70	1.166667	0.222521	30.06661	Stalled	chr11:45791811-45831494	37.684
Fam71f2	0	0	0	32	0.533333	0.239761	1.018219	Unclassified	chr6:29229140-29240676	9.537
Bcas1	0	0	0	140	2.333333	0.568746	0.739901	Unclassified	chr2:170172490-170255345	80.856
Wasf3	0	0	0	80	1.333333	0.047733	1.043655	Unclassified	chr5:147194581-147282701	86.121
A1bg	0	0	0	1	0.016667	0.035152	0	Unclassified	chr15:60749143-60754825	3.683
Fnbp1l	0	0	0	203	3.383333	0.201343	4.492414	Unclassified	chr3:122241636-122324585	80.95
Ttr	0	0	0	12	0.2	0	1.491325	Unclassified	chr18:20821913-20832820	8.908
Ttn	0	0	0	367	6.116667	0.053056	0.863928	Unclassified	chr2:76542040-76822604	278.565
Wnt8b	0	0	0	38	0.633333	0.250451	0.361349	Unclassified	chr19:44565961-44588763	20.803
Wnt7b	0	0	0	70	1.166667	0.04513	0.411141	Unclassified	chr15:85365869-85414251	46.383
Serpinb6e	0	0	0	13	0.216667	0.012858	0.955614	Unclassified	chr13:33924213-33937277	11.065
Rel1l	0	0	0	348	5.8	1.96563	29.95077	Stalled	chr5:64300136-64362136	60.001

Gca	0	0	0	208	3.466667	2.79816	27.60488	Stalled	chr2:62500383-62532166	29.784
Ttk	0	0	0	434	7.233333	3.45977	63.03086	Stalled	chr9:83726295-83765997	37.703
Cxcl17	0	0	0	31	0.516667	0	0.609502	Unclassified	chr7:26185071-26199905	12.835
Taar6	0	0	0	1	0.016667	0.061736	0	Unclassified	chr10:23704414-23707452	1.039
Taar5	0	0	0	4	0.066667	0	4	Unclassified	chr10:23688511-23691525	1.015
Taar7a	0	0	0	1	0.016667	0.002448	1	Unclassified	chr10:23712210-23715287	1.078
Taar8a	0	0	0	3	0.05	0.036007	0	Unclassified	chr10:23794305-23797340	1.036
Rfc3	0	0	0	263	4.383333	0	10.10351	Unclassified	chr5:152445398-152455783	8.386
Nup43	0	0	0	268	4.466667	7.54905	10.13007	Unclassified	chr10:7385301-7398684	11.384
Lgsn	0	0	0	27	0.45	0.01347	0.542671	Unclassified	chr1:31231279-31261570	28.292
Scn3a	0	0	0	102	1.7	0.133444	0.52239	Unclassified	chr2:65295174-65407549	110.376
Eras	0	0	0	12	0.2	0.0476	1.87493	Unclassified	chrX:7501401-7507733	4.333
Sfmbt2	0	0	0	305	5.083333	0.453895	10.79605	Stalled	chr2:10292208-10516787	222.58
Hsd17b3	0	0	0	60	1	0.019932	0	Unclassified	chr13:64159581-64192509	30.929
Ddx46	0	0	0	838	13.96667	19.4665	13.73457	Unclassified	chr13:55734387-55782617	46.231
Slc24a3	0	0	0	314	5.233333	0.093632	0.559979	Unclassified	chr2:145066346-145467675	399.33
Arid4b	0	0	0	1205	20.08333	5.06672	41.77733	Unclassified	chr13:14154058-14291870	135.813
Gdf6	0	0	0	37	0.616667	0.228503	0.722725	Unclassified	chr4:9769518-9789492	17.975
Fkbp6	0	0	0	81	1.35	0.018388	1.719242	Unclassified	chr5:135767573-135827861	58.289
Dtnbp1	0	0	0	1101	18.35	20.426	10.24577	Unclassified	chr13:45017448-45099465	80.018
Tinagl1	0	0	0	27	0.45	0.33624	1.195344	Unclassified	chr4:129842843-129854366	9.524
Chmp1a	0	0	0	389	6.483333	20.0276	6.000807	Unclassified	chr8:125728160-125738688	8.529
Ntn4	0	0	0	99	1.65	0.462324	1.575218	Unclassified	chr10:93101793-93208717	104.925
Tbx21	0	0	0	49	0.816667	1.14964	4.898629	Unclassified	chr11:96959320-96978645	17.326
Olf1208	0	0	0	1	0.016667	0	0	Unclassified	chr2:88736825-88739752	0.928
Myo16	0	0	0	447	7.45	0.069211	1.03795	Unclassified	chr8:10151922-10633950	480.029
AI646023	0	0	0	39	0.65	0.245051	1.408983	Unclassified	chr10:75012869-75025075	10.207
Pthlh	0	0	0	12	0.2	0.406632	2.313748	Unclassified	chr6:147200631-147214607	11.977
Pth	0	0	0	5	0.083333	0	0	Unclassified	chr7:120529089-120534087	2.999
Ptgs1	0	0	0	159	2.65	4.9671	3.741724	Unclassified	chr2:36083945-36107789	21.845
Ptgrn	0	0	0	92	1.533333	0.064237	0	Unclassified	chr3:100844158-100916089	69.932
Ptgrf	0	0	0	20	0.333333	0.017421	1.356223	Unclassified	chr3:151461573-151502492	38.92
Pcdh20	0	0	0	4	0.066667	0.017137	0	Unclassified	chr14:88864555-88873203	6.649
Acox1	0	0	0	391	6.516667	6.11625	30.72475	Unclassified	chr11:116033201-116062359	27.159
Acp1	0	0	0	278	4.633333	5.30776	15.93552	Unclassified	chr12:31578190-31598477	18.288
BC024479	0	0	0	545	9.083333	4.03233	40.65309	Unclassified	chr9:37294905-37331735	34.831
Acr	0	0	0	11	0.183333	0.017054	0.737728	Unclassified	chr15:89396756-89405015	6.26
Olf171	0	0	0	7	0.116667	0.054596	5	Unclassified	chr4:43718499-43721438	0.94
Lyst	0	0	0	1542	25.7	9.77387	16.48059	Unclassified	chr13:13680675-13869707	187.033
Morc1	0	0	0	108	1.8	0.025212	0.65423	Unclassified	chr16:48429349-48631018	199.67
Hebp2	0	0	0	8	0.133333	0.435971	1.493219	Unclassified	chr10:18259928-18267882	5.955
Lyz2	0	0	0	6	0.1	4.76925	0.427459	Unclassified	chr10:116714596-116721328	4.733
Olf1032	0	0	0	2	0.033333	0.020589	0	Unclassified	chr2:85845934-85848867	0.934
Stard10	0	0	0	151	2.516667	12.9105	3.359412	Unclassified	chr7:108467832-108494826	24.995
I11f10	0	0	0	6	0.1	0	0.245397	Unclassified	chr2:24144715-24149340	2.626
Snrbp	0	0	0	478	7.966667	100.103	6.833451	Unclassified	chr2:129997371-130007100	7.73
Tifa	0	0	0	58	0.966667	2.30781	2.816705	Unclassified	chr3:127490830-127501307	8.478
Dffa	0	0	0	216	3.6	28.9729	7.022246	Unclassified	chr4:148476261-148494759	16.499
Darc	0	0	0	3	0.05	1.72594	1	Unclassified	chr1:175262016-175265634	1.619
Hsd11b2	0	0	0	89	1.483333	0.76901	1.549831	Elongating	chr8:108040645-108047888	5.244
Zfp322a	0	0	0	341	5.683333	1.99502	30.04526	Unclassified	chr13:23444972-23463071	16.1
Nfx1	0	0	0	1654	27.56667	12.246	17.78323	Unclassified	chr4:40915975-40973025	55.051
Sic17a2	0	0	0	11	0.183333	0.038785	0	Unclassified	chr13:23896895-23915394	16.5
Hkdc1	0	0	0	59	0.983333	0.055195	1.231928	Unclassified	chr10:61845884-61887205	39.322
Olf1046	0	0	0	1	0.016667	0.047056	0	Unclassified	chr2:86056914-86059865	0.952
Tgm2	0	0	0	85	1.416667	0.364636	2.251813	Unclassified	chr2:157942140-157974128	29.989
Tgm1	0	0	0	48	0.8	0.246192	1.071937	Unclassified	chr14:56318845-56333925	13.081
Tgfb3	0	0	0	254	4.233333	0.451027	4.323377	Unclassified	chr5:107535590-107720614	183.025
Tgfb1	0	0	0	365	6.083333	1.30723	37.1791	Stalled	chr4:47364176-47427796	61.621
Tgfb1	0	0	0	56	0.933333	0.679448	0.351587	Unclassified	chr13:56708963-56740700	29.738
Cbic	0	0	0	79	1.316667	0.38891	2.32918	Unclassified	chr7:20365066-20384158	17.093
Calma4	0	0	0	0	0	0.175003	0	Unclassified	chr13:3835002-3837917	0.916
Rs1	0	0	0	33	0.55	0.017557	0	Unclassified	chrX:157203944-157237595	31.652
Lsm10	0	0	0	167	2.783333	9.46976	5.689866	Unclassified	chr4:125771896-125775827	1.932
Zfp551	0	0	0	41	0.683333	0.927056	5.979439	Unclassified	chr7:13000496-13009840	7.345
Dhrs3	0	0	0	520	8.666667	10.0788	3.143984	Unclassified	chr4:144480979-144518112	35.134
Plvap	0	0	0	71	1.183333	0.508837	0.325356	Unclassified	chr8:74021652-74037668	14.017
Pi4k2a	0	0	0	766	12.76667	10.8877	16.43035	Unclassified	chr19:42162924-42196708	31.785
Gdpd3	0	0	0	94	1.566667	0.299341	0.839788	Unclassified	chr7:133907927-133919159	9.233
Wdr33	0	0	0	1846	30.76667	16.8253	15.74213	Unclassified	chr18:31961710-32068640	104.931
Edc3	0	0	0	633	10.55	8.00967	10.36772	Unclassified	chr9:57554375-57597969	41.595
Ttc33	0	0	0	306	5.1	6.93341	9.645311	Unclassified	chr15:5133559-5168332	32.774
Lamb3	0	0	0	149	2.483333	1.19761	0.43755	Unclassified	chr1:195126187-195170072	41.886
Lgals3	0	0	0	100	1.666667	2.43383	1.162174	Unclassified	chr14:47991534-48005842	12.309
Gm14316	0	0	0	3	0.05	0	0	Unclassified	chr2:164538804-164543568	2.765
Pkp4	0	0	0	672	11.2	2.7392	11.76434	Stalled	chr2:58996906-59193262	194.357
Tubb6	0	0	0	306	5.1	9.59117	5.327766	Unclassified	chr18:67548384-67562403	12.02
Lamc2	0	0	0	85	1.416667	0.166216	3.16419	Unclassified	chr1:154969885-155035577	63.693
Lgals7	0	0	0	171	2.85	0.664312	0.045028	Unclassified	chr7:29647404-29651303	1.9
Gdf2	0	0	0	11	0.183333	0.017157	0.728903	Unclassified	chr14:34752224-34760384	6.161
Bmp8b	0	0	0	180	3	0.108972	0.619755	Unclassified	chr4:122780407-122803334	20.928
Bmpr1b	0	0	0	84	1.4	0.031224	0	Unclassified	chr3:141500099-141647215	145.117
Bmpr1a	0	0	0	86	1.433333	0.140299	6.201894	Unclassified	chr14:35224253-35317732	91.48
Cd300c	0	0	0	8	0.133333	0.074298	0.879709	Unclassified	chr11:114817591-114823731	4.141
Bmp8a	0	0	0	102	1.7	1.1194	8.102362	Unclassified	chr4:122989892-123022046	30.155
Fam198b	0	0	0	51	0.85	0.261123	2.297032	Unclassified	chr3:79687851-79750199	60.349

Ankar	0	0	0	22	0.366667	0.014013	0	Unclassified	chr1:72689553-72749138	57.586
Tmprss11c	0	0	0	21	0.35	0.047615	0.739682	Unclassified	chr5:86660505-86720333	57.829
Bmx	0	0	0	30	0.5	0.021325	0.736701	Unclassified	chrX:160630773-160698125	65.353
Bmpr2	0	0	0	96	1.6	0.301483	2.780408	Unclassified	chr1:59819480-59927703	106.224
Serpina11	0	0	0	14	0.233333	0	1.861191	Unclassified	chr12:105218452-105230153	9.702
Foxk2	0	0	0	1265	21.08333	15.4894	13.91601	Unclassified	chr11:121119300-121171208	49.909
Dgcr14	0	0	0	244	4.066667	8.70912	3.942105	Unclassified	chr16:17900801-17913441	10.641
Fndc5	0	0	0	59	0.983333	0.161199	0.329257	Unclassified	chr4:128812303-128821836	7.534
Kremen1	0	0	0	438	7.3	3.11366	14.10861	Unclassified	chr11:5091555-5163613	70.059
F11	0	0	0	8	0.133333	0.034268	0	Unclassified	chr8:46326523-46349385	20.863
Tceanc	0	0	0	257	4.283333	0.968799	32.68317	Stalled	chrX:162937746-162950410	10.665
Pch2	0	0	0	114	1.9	0.024064	0.197704	Unclassified	chr4:154357234-154387093	27.86
Mro	0	0	0	30	0.5	0.087743	1.256944	Unclassified	chr18:74017040-74038788	19.749
Dpy19l3	0	0	0	700	11.66667	1.5259	17.19037	Unclassified	chr7:36470520-36541473	68.954
Zfand3	0	0	0	2692	44.86667	12.3396	16.04777	Unclassified	chr17:30140031-30346965	204.935
Pppad3a1a	0	0	0	115	1.916667	0	1.64996	Unclassified	chr7:136398607-136534821	134.215
Itgad	0	0	0	55	0.916667	0.040079	1.944543	Unclassified	chr7:135315468-135349015	31.548
Rnd2	0	0	0	30	0.5	1.38643	3.294314	Unclassified	chr11:101327651-101332620	2.97
Phox2a	0	0	0	20	0.333333	0.739469	0.55634	Unclassified	chr7:108964826-108971240	4.415
Bglap1	0	0	0	8	0.133333	0.317478	6	Unclassified	chr3:88187416-88190386	0.971
Rhod	0	0	0	33	0.55	0.679823	2.806459	Unclassified	chr19:4425456-4441424	13.969
Serpinf2	0	0	0	50	0.833333	0.088756	3.853166	Unclassified	chr11:75245237-75254977	7.741
Plg	0	0	0	48	0.8	0.037216	0.458382	Unclassified	chr17:12569474-12612250	40.777
Pri7d1	0	0	0	3	0.05	0	0	Unclassified	chr13:27800891-27810606	7.716
Depdc6	0	0	0	145	2.416667	2.17035	4.068242	Unclassified	chr15:54942037-55085757	141.721
Jph2	0	0	0	92	1.533333	0.044007	0	Unclassified	chr2:163163508-163225686	60.179
Pcbp4	0	0	0	121	2.016667	6.35117	9.129335	Unclassified	chr9:106354187-106366340	10.154
Apitd1	0	0	0	390	6.5	24.141	6.042793	Unclassified	chr4:148502457-148513709	9.253
Polr3e	0	0	0	1100	18.33333	8.58609	4.263616	Unclassified	chr7:128059257-128090946	29.69
Zfp438	0	0	0	503	8.383333	0.435332	126.1082	Stalled	chr18:5210028-5336437	124.41
Ppp2r5e	0	0	0	1380	23	6.93218	42.6513	Unclassified	chr12:76551867-76699187	145.321
Zadh2	0	0	0	627	10.45	4.95486	12.96141	Unclassified	chr18:84255549-84266906	9.358
Myoz2	0	0	0	24	0.4	0	0	Unclassified	chr3:122709125-122739905	28.781
Adamts4	0	0	0	18	0.3	0.200633	1.244074	Unclassified	chr1:173178552-173190053	9.502
Efha1	0	0	0	712	11.86667	15.0333	21.95112	Unclassified	chr14:58535116-58620099	82.984
Dusp19	0	0	0	140	2.333333	8.16339	40.94064	Stalled	chr2:80455370-80471818	14.449
Dcakd	0	0	0	594	9.9	10.2507	9.369137	Unclassified	chr11:102855369-102880461	23.093
Dear1	0	0	0	42	0.7	0.346735	36	Unclassified	chr3:84768977-84771502	0.526
Mrps18c	0	0	0	297	4.95	31.1274	19.3608	Unclassified	chr5:101225777-101233486	5.71
Smek1	0	0	0	1310	21.83333	17.8053	22.05209	Unclassified	chr12:102277618-102323912	44.295
Angel1	0	0	0	211	3.516667	1.60056	25.85269	Stalled	chr12:88041451-88069410	25.96
Olfir339	0	0	0	0	0	0.034436	0	Unclassified	chr2:36274919-36277849	0.931
1110032A13Rik	0	0	0	195	3.25	22.1558	9.797179	Unclassified	chr18:80389002-80399358	8.357
Cap2	0	0	0	185	3.083333	0.052499	0.444332	Unclassified	chr13:46595515-46745647	148.133
Zfp422	0	0	0	149	2.483333	4.03168	21.40017	Stalled	chr6:116574033-116580995	4.963
2900011008Rik	0	0	0	104	1.733333	0.097959	1.597207	Unclassified	chr16:13984729-14101587	114.859
1810037I17Rik	0	0	0	173	2.883333	26.1415	27.47135	Unclassified	chr3:122625314-122629112	1.799
Mrpl24	0	0	0	243	4.05	34.328	4.963026	Unclassified	chr3:87721465-87727355	3.891
Wfdc2	0	0	0	10	0.166667	0.271532	0.374609	Unclassified	chr2:164386215-164394006	5.792
Tcp1l12	0	0	0	144	2.4	2.57335	11.71658	Stalled	chr10:84037691-84077100	37.41
Rnf149	0	0	0	522	8.7	6.48871	23.01967	Unclassified	chr1:39608143-39636192	26.05
Zdhhc2	0	0	0	87	1.45	1.05164	16.76048	Stalled	chr8:41507168-41570196	61.029
Als2cr4	0	0	0	174	2.9	2.43275	65.09409	Stalled	chr1:59157436-59178940	19.505
Mup21	0	0	0	3	0.05	0	0.501371	Unclassified	chr4:61808865-61813875	3.011
Ifi27l2a	0	0	0	202	3.366667	203.141	1.709356	Elongating	chr12:104680378-104683890	1.513
Bat3	0	0	0	955	15.91667	36.6458	5.192103	Unclassified	chr17:35270186-35284181	11.996
Tbc1d25	0	0	0	221	3.683333	4.30706	14.10194	Stalled	chrX:7731597-7755307	21.711
Hibch	0	0	0	322	5.366667	4.23719	49.26882	Stalled	chr1:52899889-52977704	75.816
Mrps17	0	0	0	259	4.316667	20.6685	7.770688	Unclassified	chr5:130219402-130224566	3.165
Gsdmc	0	0	0	9	0.15	0.036061	2.592059	Unclassified	chr15:63607525-63642294	32.77
Gpm6b	0	0	0	153	2.55	0.223969	1.510226	Unclassified	chrX:162674903-162826920	150.018
Usp39	0	0	0	742	12.36667	13.8056	11.37773	Unclassified	chr6:72268669-72297169	26.501
Pigq	0	0	0	552	9.2	15.0238	8.93342	Unclassified	chr17:26063368-26080907	15.54
Gpld1	0	0	0	168	2.8	2.89346	1.144377	Unclassified	chr13:25033020-25083805	48.786
Aig1	0	0	0	558	9.3	4.06066	17.46419	Stalled	chr10:13372514-13590636	216.123
Dimt1	0	0	0	425	7.083333	3.09271	9.119468	Unclassified	chr13:107735208-107750304	13.097
Gpi1	0	0	0	904	15.06667	162.869	8.665547	Unclassified	chr7:34986345-35017324	28.98
Ssr2	0	0	0	212	3.533333	93.4552	12.26027	Unclassified	chr3:88381592-88392335	8.744
Nicn1	0	0	0	62	1.033333	5.23416	22.18861	Stalled	chr9:108190787-108198827	6.041
Pdrg1	0	0	0	295	4.916667	27.5894	10.44375	Unclassified	chr2:152834625-152843119	6.495
Gphn	0	0	0	2215	36.91667	6.57185	87.97051	Stalled	chr12:79325641-79785754	458.114
Fundc1	0	0	0	121	2.016667	4.71831	22.06505	Stalled	chrX:17133694-17151423	15.73
Cyb5r1	0	0	0	302	5.033333	7.61443	10.52066	Unclassified	chr1:136300566-136308315	5.75
Art4	0	0	0	62	1.033333	2.0372	0.242766	Unclassified	chr6:136796971-136808121	9.151
Btbd17	0	0	0	19	0.316667	0.442333	1.942529	Unclassified	chr11:114651982-114659206	5.225
6030498E09Rik	0	0	0	37	0.616667	0.027023	0	Unclassified	chrX:36123956-36315865	189.91
Nme7	0	0	0	446	7.433333	3.69439	25.4538	Stalled	chr1:166235805-166367425	129.621
Col19a1	0	0	0	182	3.033333	0.040086	0.644928	Unclassified	chr1:24264521-24596276	329.756
Itg11	0	0	0	281	4.683333	0.075283	1.112074	Unclassified	chr9:62523661-62631786	106.126
Adap2	0	0	0	60	1	1.09121	3.632592	Unclassified	chr11:79965663-79992329	24.667
Gm4738	0	0	0	18	0.3	0.016725	0.3707	Unclassified	chr8:107605654-107617489	9.836
Tmem200a	0	0	0	54	0.9	0.031481	1.260162	Unclassified	chr10:25710991-25800858	87.868
Nqo2	0	0	0	159	2.65	1.53758	18.8067	Stalled	chr13:34054527-34080334	23.808
Nmbr	0	0	0	6	0.1	0.174818	1.397091	Unclassified	chr10:14478094-14490362	10.269
Mrpl40	0	0	0	575	9.583333	15.2729	26.51727	Unclassified	chr16:18872110-18878730	4.621
Zfp72	0	0	0	9	0.15	0.157352	0	Unclassified	chr13:74508873-74516014	5.142

Oifr1106	0	0	0	0	0	0	0	0	Unclassified	chr2:86888452-86891391	0.94
Npw	0	0	0	16	0.266667	1.16261	15	15	Unclassified	chr17:24794274-24797370	1.097
Dnahc2	0	0	0	203	3.383333	0.046761	0.391333	0.391333	Unclassified	chr11:69234310-69364610	128.301
Gpr150	0	0	0	43	0.716667	3.92838	0.355174	0.355174	Unclassified	chr13:76192298-76196444	2.147
Pilrb1	0	0	0	3	0.05	0.094519	0	0	Unclassified	chr5:138293374-138301277	5.904
Zfp287	0	0	0	64	1.066667	0.613736	0.9409	0.9409	Unclassified	chr11:62524987-62544595	17.609
Tlr7	0	0	0	1053	17.55	5.31267	2.524056	2.524056	Elongating	chrX:163742862-163770460	25.599
Sertad3	0	0	0	203	3.383333	3.97573	4.161358	4.161358	Unclassified	chr7:28256858-28262383	3.526
Xpnp2	0	0	0	83	1.383333	0.040303	0.249483	0.249483	Unclassified	chrX:45459901-45490158	28.258
Tlr8	0	0	0	5	0.083333	0.012175	0	0	Unclassified	chrX:163680663-163703720	21.058
Hsn2	0	0	0	38	0.633333	0	0.721085	0.721085	Unclassified	chr6:119912384-119915686	1.303
Fig4	0	0	0	628	10.46667	4.62997	21.44362	21.44362	Stalled	chr10:40907977-41025047	115.071
Olfm3	0	0	0	71	1.183333	0.019669	2.291408	2.291408	Unclassified	chr3:114605280-114828174	220.895
Spock3	0	0	0	154	2.566667	0	0.726939	0.726939	Unclassified	chr8:65428242-65835893	405.652
Krit1	0	0	0	586	9.766667	8.80553	66.72711	66.72711	Stalled	chr5:3801164-3844515	41.352
Cmc1	0	0	0	517	8.616667	6.78058	27.6805	27.6805	Stalled	chr9:117974212-118061198	84.987
Tax1bp3	0	0	0	333	5.55	2.4751	71.27811	71.27811	Stalled	chr11:72988584-72995548	4.965
4833423E24Rik	0	0	0	16	0.266667	0.076061	0.692906	0.692906	Unclassified	chr2:85324248-85361092	34.845
Dld	0	0	0	408	6.8	17.8478	28.0504	28.0504	Unclassified	chr12:32016426-32038302	19.877
Usp33	0	0	0	526	8.766667	3.94092	17.19726	17.19726	Unclassified	chr3:152007444-152056578	47.135
Mbd3l1	0	0	0	2	0.033333	0	0	0	Unclassified	chr9:18280838-18289736	6.899
Glmn	0	0	0	516	8.6	2.17827	58.69399	58.69399	Stalled	chr5:10797985-108028658	48.674
Hist1h2ac	0	0	0	603	10.05	0	23.77166	23.77166	Stalled	chr13:23773335-23777828	2.494
Hist1h2ad	0	11.97468	0	203	3.383333	0	168	168	Unclassified	chr13:23664339-23666732	0.394
Hist1h2aa	0	0	0	6	0.1	0	6	6	Unclassified	chr13:24024330-24026720	0.391
Oifr1014	0	0	0	0	0	0	0.07677	0	Unclassified	chr2:85614742-85617660	0.919
Oifr1006	0	0	0	3	0.05	0	0	0	Unclassified	chr2:85514367-85520898	4.532
Oifr446	0	0	0	0	0	0.041411	0	0	Unclassified	chr6:42875231-42878158	0.928
Oifr437	0	0	0	1	0.016667	0	0	0	Unclassified	chr6:43115058-43117991	0.934
Oifr1002	0	0	0	2	0.033333	0	1	1	Unclassified	chr2:85487519-85490476	0.958
Oifr746	0	0	0	0	0	0.01353	0	0	Unclassified	chr14:51270913-51273858	0.946
Oifr827	0	0	0	1	0.016667	0.029173	1	1	Unclassified	chr10:129647215-129650184	0.97
Ppp3r1	0	0	0	786	13.1	20.7503	18.44615	18.44615	Unclassified	chr11:17057300-17100383	41.084
Ppp3r2	0	0	0	4	0.066667	0.055817	0.528079	0.528079	Unclassified	chr4:49691618-49696855	3.238
4833413D08Rik	0	0	0	9	0.15	0.018821	0	0	Unclassified	chr2:154081614-154096979	13.366
Gsbs	0	0	0	14	0.233333	0.029497	0	0	Unclassified	chr6:55965508-55982682	15.175
Ppp2ca	0	0	0	1065	17.75	58.9854	13.75778	13.75778	Unclassified	chr11:51910325-51936251	23.927
Ppp2cb	0	0	0	491	8.183333	15.0934	9.467121	9.467121	Unclassified	chr8:34708092-34730276	20.185
Ppp3cb	0	0	0	922	15.36667	11.4208	26.77401	26.77401	Unclassified	chr14:21318535-21367795	47.261
Phf3	0	0	0	533	8.883333	9.28449	0.721984	0.721984	Unclassified	chr1:30859186-30922101	60.916
Vmn2r37	0	0	0	1	0.016667	0	0	0	Unclassified	chr7:8952256-8972357	18.102
Fbxo11	0	0	0	1911	31.85	5.49084	7.45122	7.45122	Unclassified	chr17:88390198-88466625	74.428
Ddx19a	0	0	0	631	10.51667	18.5199	17.14581	17.14581	Unclassified	chr8:113498890-113523723	22.834
Armc3	0	0	0	131	2.183333	1.27058	1.865474	1.865474	Unclassified	chr2:19118744-19231861	111.118
Msto1	0	0	0	553	9.216667	16.8823	6.602923	6.602923	Unclassified	chr3:88713537-88719872	4.336
Tmem20	0	0	0	144	2.4	1.66117	18.32059	18.32059	Stalled	chr19:38468469-38480097	9.629
Abcc12	0	0	0	79	1.316667	0.028411	1.352517	1.352517	Unclassified	chr8:89028739-89092489	61.751
Ccnj	0	0	0	503	8.383333	3.24288	12.29808	12.29808	Unclassified	chr19:40903768-40923060	17.293
Gm527	0	0	0	24	0.4	0.657023	18.70757	18.70757	Stalled	chr12:66016897-66025578	6.682
Tmem199	0	0	0	499	8.316667	13.9212	25.88595	25.88595	Unclassified	chr11:78320557-78327670	5.114
A630095E13Rik	0	0	0	1	0.016667	0	1	1	Unclassified	chr9:36443338-36448187	2.85
A830080D01Rik	0	0	0	287	4.783333	2.01357	32.91539	32.91539	Stalled	chrX:155968599-156031013	60.415
Cdkl5	0	0	0	191	3.183333	0.327713	32.41146	32.41146	Stalled	chrX:15722239-157434613	210.375
6430548M08Rik	0	0	0	240	4	1.1775	27.65855	27.65855	Stalled	chr8:122636051-122689207	51.157
Alkbh2	0	0	0	251	4.183333	12.2855	7.415584	7.415584	Unclassified	chr5:114573942-114580185	4.244
Aqr	0	0	0	727	12.11667	10.7482	23.52912	23.52912	Unclassified	chr2:113926908-114003075	74.168
Gaint5	0	0	0	26	0.433333	0.051313	1.905075	1.905075	Unclassified	chr2:57848565-57891582	41.018
Magea9	0	0	0	2	0.033333	0.035017	2	2	Unclassified	chrX:70112705-70115437	0.733
Arfp2	0	0	0	381	6.35	10.3658	14.89158	14.89158	Unclassified	chr7:112782715-112790930	6.216
6330527O06Rik	0	0	0	10	0.166667	0.039334	0	0	Unclassified	chr2:135881662-135895653	11.992
Gm1337	0	0	0	28	0.466667	0.635338	1.60325	1.60325	Unclassified	chr2:118524838-118531699	4.862
Cebpe	0	0	0	6	0.1	0.103524	0.213218	0.213218	Unclassified	chr14:55329199-55333011	1.813
Tbc1d21	0	0	0	15	0.25	0	0.465163	0.465163	Unclassified	chr9:58207610-58220176	10.567
Kcmf1	0	0	0	1203	20.05	14.9312	10.79623	10.79623	Unclassified	chr6:72791107-72851973	58.867
Spatc1	0	0	0	37	0.616667	0.047912	1.269803	1.269803	Unclassified	chr15:76096518-76123002	24.485
Fkbp8	0	0	0	486	8.1	103.264	6.097347	6.097347	Unclassified	chr8:73049641-73059227	7.587
Shisa7	0	0	0	33	0.55	0.268815	0	0	Unclassified	chr7:4777154-4798298	19.145
Spem1	0	0	0	6	0.1	0.099448	0.515679	0.515679	Unclassified	chr11:69634372-69637667	1.296
Myog	0	0	0	6	0.1	0.060618	0.871968	0.871968	Unclassified	chr1:136184580-136189125	2.546
Ii9	0	0	0	3	0.05	0	0	0	Unclassified	chr13:56580637-56586607	2.971
Klra10	0	0	0	0	0	0.009609	0	0	Unclassified	chr6:130219211-130233946	12.736
Ii6st	0	0	0	600	10	4.19767	12.30209	12.30209	Unclassified	chr13:113252277-113297068	42.792
Tmem194	0	0	0	297	4.95	3.19	17.40568	17.40568	Unclassified	chr10:127112120-127138103	23.984
Agpat1	0	0	0	88	1.466667	24.087	1.736838	1.736838	Elongating	chr17:34743958-34750393	4.436
Serpina3c	0	0	0	14	0.233333	0.051059	1.121125	1.121125	Unclassified	chr12:105385116-105394082	6.967
Klkb5	0	0	0	3	0.05	0	1.527187	1.527187	Unclassified	chr7:51469844-51476073	4.23
Ii5	0	0	0	9	0.15	0.041774	1.195163	1.195163	Unclassified	chr11:53532295-53538605	4.311
Ii5ra	0	0	0	627	10.45	3.96824	3.86653	3.86653	Unclassified	chr6:106660372-106701031	38.66
Ii6	0	0	0	209	3.483333	1.36738	7.054994	7.054994	Unclassified	chr5:30337700-30346508	6.809
Atp1a1	0	0	0	1012	16.86667	42.5462	17.4428	17.4428	Unclassified	chr3:101380145-101410580	28.436
Srprb	0	0	0	332	5.533333	21.0407	6.690547	6.690547	Unclassified	chr9:103090362-103106395	14.034
Clu	0	0	0	22	0.366667	0.177217	0.776719	0.776719	Unclassified	chr14:66585319-66600382	13.064
Oifr688	0	0	0	0	0	0.018693	0	0	Unclassified	chr7:112434608-112437574	0.967
Ephb4	0	0	0	24	0.4	0.0621	0	0	Unclassified	chr5:137789336-137815750	24.415
Oifr814	0	0	0	0	0	0.013704	0	0	Unclassified	chr10:129310878-129313811	0.934
Clock	0	0	0	576	9.6	1.47374	32.64906	32.64906	Stalled	chr5:76641201-76735573	92.373

Klk1b1	0	0	0	3	0.05	0.045394	0	Unclassified	chr7:51220137-51226685	4.549
Kcnj1	0	0	0	68	1.133333	0.126144	0	Unclassified	chr9:32178002-32206777	26.776
Tagln3	0	0	0	48	0.8	0.804464	4.362457	Unclassified	chr16:45711342-45726644	13.303
Cpb2	0	0	0	43	0.716667	0.095709	0.489461	Unclassified	chr14:75640093-75683358	41.266
B4galt4	0	0	0	95	1.583333	0.573948	6.180077	Unclassified	chr16:38740376-38769158	26.783
Pdlim5	0	0	0	648	10.8	3.53141	63.57775	Stalled	chr3:141903567-142060582	155.016
Ltb4r1	0	0	0	13	0.216667	0.727108	0.321444	Unclassified	chr14:56382798-56387329	2.532
Dync1li1	0	0	0	593	9.883333	11.0155	23.06932	Unclassified	chr9:114595948-114632895	34.948
Ltbp2	0	0	0	185	3.083333	0.064867	2.782969	Unclassified	chr12:86124161-86219445	93.285
Pcdhb18	0	0	0	3	0.05	0.041513	0.801587	Unclassified	chr18:37647118-37654157	5.04
Pcdhb17	0	0	0	3	0.05	0.017633	2	Unclassified	chr18:37642674-37647944	3.271
Pcdhb14	0	0	0	0	0	0.035851	0	Unclassified	chr18:37605310-37610748	3.439
Pcdhb13	0	0	0	4	0.066667	0.021536	0	Unclassified	chr18:37600170-37605863	3.694
Pcdhb16	0	0	0	4	0.066667	0.062799	0	Unclassified	chr18:37635421-37642691	5.271
Pcdhb15	0	0	0	1	0.016667	0.036684	0	Unclassified	chr18:37631199-37635994	2.796
Ltbp3	0	0	0	140	2.333333	0.421788	0.216494	Unclassified	chr19:5738903-5758532	17.63
Pcdhb9	0	0	0	2	0.033333	0.027244	1	Unclassified	chr18:37558508-37563563	3.056
Pcdhb12	0	0	0	1	0.016667	0.016897	1	Unclassified	chr18:37593274-37598308	3.035
Pcdhb11	0	0	0	1	0.016667	0.01564	0	Unclassified	chr18:37579071-37584686	3.616
Cacna1a	0	0	0	694	11.56667	0.970279	0.739807	Unclassified	chr8:86937262-87164148	224.887
D15Wsu169e	0	0	0	445	7.416667	1.73645	6.573217	Unclassified	chr15:76554414-76650600	94.187
Gpr173	0	0	0	13	0.216667	0.015951	0.671318	Unclassified	chrX:148779188-148804654	23.467
3110057012Rik	0	0	0	114	1.9	4.02271	30.29671	Stalled	chr3:40696198-40740229	42.032
Sel1l3	0	0	0	137	2.283333	0.076693	1.798362	Unclassified	chr5:53498321-53606691	106.371
Neurod4	0	0	0	4	0.066667	0.019157	0	Unclassified	chr10:129705207-129719296	12.09
1700003F12Rik	0	0	0	33	0.55	0.786328	0.324857	Unclassified	chr2:154372639-154375784	1.146
Cox8c	0	0	0	0	0	0.2154	0	Unclassified	chr12:104135515-104138744	1.23
D330038006Rik	0	0	0	646	10.76667	3.77066	15.85598	Unclassified	chr8:72285222-72300810	13.589
Zfp629	0	0	0	91	1.516667	0.40019	2.609929	Unclassified	chr7:134750548-134759947	7.4
Mageb18	0	0	0	82	1.366667	0	0.855536	Unclassified	chrX:89364217-8946911	480.695
Adnp2	0	0	0	704	11.73333	4.47043	11.90334	Unclassified	chr18:80323873-80350221	24.349
Abhd3	0	0	0	46	0.766667	0.773057	1.175353	Unclassified	chr18:10644408-10708694	62.287
Clstn2	0	0	0	448	7.466667	0.017674	1.137142	Unclassified	chr9:97344813-97935586	588.774
Popdc2	0	0	0	120	2	0.133806	0.592113	Unclassified	chr16:38360258-38378302	16.045
Olf1513	0	0	0	2	0.033333	0.013573	0	Unclassified	chr14:52968778-52971719	0.942
Fjx1	0	0	0	17	0.283333	0.89215	0.768982	Unclassified	chr2:102289522-102293949	2.428
Gm14459	0	0	0	3	0.05	0.023734	1.816581	Unclassified	chrX:8091177-8104080	10.904
Grm3	0	0	0	113	1.883333	0.034394	0.681019	Unclassified	chr5:9485235-9727352	240.118
Mageh1	0	0	0	28	0.466667	3.51985	6.844889	Unclassified	chrX:149470708-149474106	1.399
Metap1	0	0	0	741	12.35	16.3035	14.81713	Unclassified	chr3:138121923-138154346	30.424
Sic13a3	0	0	0	109	1.816667	0.186838	1.556776	Unclassified	chr2:165230794-165300697	67.904
1700029F09Rik	0	0	0	504	8.4	11.6999	47.97342	Stalled	chr1:44143461-44161233	15.773
Spaca3	0	0	0	13	0.216667	0	1.538991	Unclassified	chr11:80669890-80681316	9.427
Tbl1x	0	0	0	915	15.25	11.4461	15.27981	Unclassified	chrX:74754565-74905604	149.04
Fam163a	0	0	0	94	1.566667	0.085838	0.696432	Unclassified	chr1:157923095-158137156	212.062
Tbca	0	0	0	389	6.483333	24.3267	23.91416	Stalled	chr13:95556897-95612854	53.958
Tbrg1	0	0	0	235	3.916667	23.3606	11.45939	Unclassified	chr9:37456766-37466897	8.132
Zfp3613	0	0	0	3	0.05	0.009949	0	Unclassified	chrX:51075862-51081571	3.71
Twf1	0	0	0	441	7.35	5.10988	10.49861	Unclassified	chr15:94408378-94422255	11.878
Col4a2	0	0	0	367	6.116667	0.137583	0.823527	Unclassified	chr8:11310828-11449286	136.459
Olf1313	0	0	0	2	0.033333	0	1	Unclassified	chr2:111911802-111914738	0.937
Olf1038	0	0	0	1	0.016667	0	0	Unclassified	chr2:85958380-85963194	2.815
Ptchd1	0	0	0	21	0.35	0.063203	0.734611	Unclassified	chrX:152004278-152059870	53.593
Pank3	0	0	0	498	8.3	3.85739	17.82457	Unclassified	chr11:35580996-35604787	21.792
Ankrd17	0	0	0	1997	33.28333	9.72623	42.90824	Unclassified	chr5:90656190-90797211	139.022
Drd2	0	0	0	63	1.05	0.016548	1.061139	Unclassified	chr9:49146766-49215319	66.554
Drd1a	0	0	0	17	0.283333	0.119881	2.934572	Unclassified	chr13:54146552-54153027	4.476
1700008J07Rik	0	0	0	648	10.8	7.89763	12.72997	Unclassified	chr7:134653951-134658383	2.433
Ccdc89	0	0	0	13	0.216667	0.87223	3.22673	Unclassified	chr7:97572821-97577172	2.352
Dpp6	0	0	0	747	12.45	0.023449	1.650845	Unclassified	chr5:27141896-28054040	910.145
Ank2	0	0	0	61	1.016667	0.22562	0.566669	Unclassified	chr3:126624524-126703370	76.847
Ddo	0	0	0	23	0.383333	0.008544	2.10701	Unclassified	chr10:40347816-40369737	19.922
Sic26a3	0	0	0	39	0.65	0.024384	2.515346	Unclassified	chr12:32121165-32158584	35.42
Dr1	0	0	0	541	9.016667	19.4298	46.64608	Unclassified	chr5:108695915-108709540	11.626
Pak3	0	0	0	10	0.166667	0	0.915505	Unclassified	chrX:140125829-140226343	98.515
Fasl	0	0	0	15	0.25	0.052933	0.7646	Unclassified	chr1:163710819-163720626	7.808
Akr1c12	0	0	0	4	0.066667	0.08836	0	Unclassified	chr13:4267417-4280645	11.229
Atp5h	0	0	0	340	5.666667	56.9455	9.999114	Unclassified	chr11:115277010-115283233	4.224
Reg3b	0	0	0	0	0	0.050657	0	Unclassified	chr6:78318878-78323460	2.583
0610010F05Rik	0	0	0	242	4.033333	1.4795	29.75382	Stalled	chr11:23473775-23535631	59.857
Gm6320	0	0	0	8	0.133333	0.615227	0.580185	Unclassified	chr13:113782075-113790602	6.528
Rnf215	0	0	0	247	4.116667	10.6737	7.948361	Unclassified	chr11:4033162-4041195	6.034
Acy3	0	0	0	11	0.183333	0.157742	0.502033	Unclassified	chr19:3984660-3990005	3.346
Serpina9	0	0	0	22	0.366667	0.05296	1.941515	Unclassified	chr12:105234829-105253862	17.034
Rbm12b	0	0	0	85	1.416667	5.05136	19.47986	Stalled	chr4:12065263-12073892	6.63
Ccdc120	0	0	0	27	0.45	0.20416	0	Unclassified	chrX:7308839-7320450	9.612
1810063B05Rik	0	0	0	318	5.3	23.3382	21.74702	Stalled	chr8:128944400-128949334	2.935
Prss33	0	0	0	17	0.283333	0.037122	1.560488	Unclassified	chr17:23970329-23974734	2.406
Zfp410	0	0	0	490	8.166667	6.00965	21.36127	Unclassified	chr12:85656079-85684674	26.596
Olf1181	0	0	0	0	0	0	0	Unclassified	chr2:88263244-88266180	0.937
Nostrin	0	0	0	200	3.333333	0.582237	3.122359	Unclassified	chr2:68971856-69027384	53.529
Sall3	0	0	0	35	0.583333	0.046517	2.275269	Unclassified	chr18:81163112-81185317	20.206
Snx21	0	0	0	200	3.333333	2.40459	1.894434	Elongating	chr2:164609520-164618270	6.751
Impg2	0	0	0	129	2.15	0.118618	0.351992	Unclassified	chr16:56202425-56273866	69.442
Gpr64	0	0	0	42	0.7	0.019352	0	Unclassified	chrX:156826621-156936002	107.382
Sox8	0	0	0	37	0.616667	0.662041	6.525205	Unclassified	chr17:25702837-25709631	4.795

Sox7	0	0	0	16	0.266667	0.079181	1.880459	Unclassified	chr14:64560542-64569569	7.028
Ppef1	0	0	0	25	0.416667	0.046473	0	Unclassified	chrX:157061026-157159904	96.879
Sox9	0	0	0	11	0.183333	0.097371	0.362499	Unclassified	chr11:112641523-112649071	5.549
Cym	0	0	0	20	0.333333	0.083088	0.331903	Unclassified	chr3:107014212-107026650	10.439
Spa17	0	0	0	56	0.933333	1.47989	19.29392	Stalled	chr9:37410882-37423199	10.318
Dnajb1	0	0	0	519	8.65	19.57	11.75152	Unclassified	chr8:86130073-86135801	3.729
Gm10035	0	0	0	2	0.033333	0.32861	0.809233	Unclassified	chr15:100163359-100170600	5.242
OlfR884	0	0	0	0	0	0	0	Unclassified	chr9:37852808-37855738	0.931
4921513D23Rik	0	0	0	655	10.91667	8.3439	20.54472	Unclassified	chr16:14110625-14161367	48.743
Abcb1b	0	0	0	1191	19.85	5.5641	19.85501	Unclassified	chr5:8796146-8866314	68.169
Acsbg1	0	0	0	136	2.266667	0.840438	0.294328	Unclassified	chr9:54452803-54511692	56.89
Eif3i	0	0	0	674	11.23333	143.958	7.380701	Unclassified	chr4:129269220-129279892	8.673
Pgr	0	0	0	44	0.733333	0.053952	1.246185	Unclassified	chr9:8897832-8968611	68.78
Pgk2	0	0	0	3	0.05	0.064404	0.228693	Unclassified	chr17:40343962-40347554	1.593
Shmt1	0	0	0	644	10.73333	22.2843	4.807919	Unclassified	chr11:60602398-60626767	22.37
Rapgef1	0	0	0	101	1.683333	0.757086	11.36797	Stalled	chr11:98696098-98714319	16.222
Sema4c	0	0	0	53	0.883333	0.397458	2.102075	Unclassified	chr1:36605486-36617226	9.741
Shd	0	0	0	81	1.35	0.410189	9.514252	Unclassified	chr17:56107904-56116040	6.137
Shh	0	0	0	17	0.283333	0.033639	0	Unclassified	chr5:28783379-28795641	10.263
Shfm1	0	0	0	313	5.216667	134.671	17.62429	Unclassified	chr6:6508274-6530658	20.385
Myl1	0	0	0	18	0.3	0.046949	1.136989	Unclassified	chr1:66970869-66993630	20.762
Defb9	0	0	0	2	0.033333	0	0	Unclassified	chr8:22992186-22997906	3.721
Spire2	0	0	0	59	0.983333	0.379051	2.086485	Unclassified	chr8:125854612-125893418	36.807
Sema6a	0	0	0	110	1.833333	0.087376	3.246443	Unclassified	chr18:47404907-47530522	123.616
Chmp1b	0	0	0	118	1.966667	24.6812	12.66376	Unclassified	chr18:67363076-67366655	1.58
Trim43a	0	0	0	1	0.016667	0.068304	0	Unclassified	chr9:88473873-88483657	7.785
Mcart6	0	0	0	513	8.55	6.45554	10.69326	Unclassified	chrX:133515654-133529571	11.918
Sic16a4	0	0	0	211	3.516667	0.076218	0.448885	Unclassified	chr3:107092209-107115033	20.825
C2cd4c	0	0	0	31	0.516667	0.18475	0.942597	Unclassified	chr10:79069598-79078763	7.166
Hcrr1	0	0	0	41	0.683333	0.041289	0.542438	Unclassified	chr4:129807461-129818406	8.946
Dynlrb1	0	0	0	301	5.016667	85.6856	13.36344	Unclassified	chr2:155060268-155076013	13.746
OlfR1411	0	0	0	0	0	0.02634	0	Unclassified	chr1:94491097-94494069	0.973
Gpr68	0	0	0	56	0.933333	0.109616	1.06924	Unclassified	chr12:102114898-102128089	11.192
Tph2	0	0	0	85	1.416667	0.085546	2.261625	Unclassified	chr10:114515698-114624078	106.381
Rab21	0	0	0	1011	16.85	25.0325	22.27038	Unclassified	chr10:114726917-114754647	25.731
Epb4.2	0	0	0	52	0.866667	0.140271	0	Unclassified	chr2:120843952-120864491	18.54
Vash2	0	0	0	161	2.683333	0.440179	2.130321	Unclassified	chr1:192771526-192805175	31.65
Cmtm4	0	0	0	143	2.383333	1.90539	3.426368	Unclassified	chr8:106878415-106921596	41.182
Pcdhb10	0	0	0	4	0.066667	0.027067	1.29627	Unclassified	chr18:37569327-37574168	2.842
Uqcrh	0	0	0	365	6.083333	121.845	22.16472	Unclassified	chr4:115739569-115749675	8.107
Trpv1	0	0	0	25	0.416667	0.050858	1.508876	Unclassified	chr11:73049760-73074009	22.225
Vmn2r60	0	0	0	30	0.5	0.016036	0.736612	Unclassified	chr7:49369840-49451146	79.307
4921507P07Rik	0	0	0	52	0.866667	0.186546	15.44631	Stalled	chr6:50523302-50548589	23.288
Csn1s2a	0	0	0	6	0.1	0	0.725757	Unclassified	chr5:88201591-88217822	14.232
Csn3	0	0	0	2	0.033333	0.064202	0.849239	Unclassified	chr5:88352657-88361289	6.633
OlfR474	0	0	0	0	0	0	0	Unclassified	chr7:115096156-115099089	0.934
4833420G17Rik	0	0	0	368	6.133333	11.187	30.0307	Stalled	chr13:120249565-120274924	23.36
Nipal1	0	0	0	46	0.766667	0.359565	4.926092	Unclassified	chr5:73037034-73062317	23.284
4930403L05Rik	0	0	0	1	0.016667	0	1	Unclassified	chrX:14687736-14690615	0.88
Ednra	0	0	0	63	1.05	0.063325	0	Unclassified	chr8:80186927-80250351	61.425
Pdlim7	0	0	0	350	5.833333	7.6281	16.55124	Unclassified	chr13:55598847-55616800	15.954
Thsd1	0	0	0	38	0.633333	0.182244	0	Unclassified	chr8:23346971-23370359	21.389
Grp	0	0	0	13	0.216667	0.059404	1.09449	Unclassified	chr18:66031147-66046233	13.087
OlfR881	0	0	0	0	0	0.027039	0	Unclassified	chr9:37798076-37801024	0.949
Jag1	0	0	0	71	1.183333	0.360512	1.50765	Unclassified	chr2:136907193-136944067	34.875
Mup6	0	0	0	1	0.016667	0	0	Unclassified	chr4:60014420-60019086	2.667
Defb20	0	0	0	6	0.1	0.055723	1.955795	Unclassified	chr2:152300798-152305670	2.873
Eif2c1	0	0	0	290	4.833333	6.45357	14.39314	Unclassified	chr4:126112258-126147665	33.408
Lrrc14	0	0	0	442	7.366667	5.9707	9.526189	Unclassified	chr15:76539169-76545521	4.353
Capn11	0	0	0	99	1.65	0.26877	1.987994	Unclassified	chr17:45767152-45798258	29.107
Prdm10	0	0	0	247	4.116667	1.90624	0.206449	Unclassified	chr9:31120691-31186128	63.438
Hmgxb4	0	0	0	524	8.733333	4.82024	16.04668	Unclassified	chr8:77515601-77555871	38.271
Pfas	0	0	0	951	15.85	7.82755	5.607312	Unclassified	chr11:68799202-68823962	22.761
Hoxb6	0	0	0	11	0.183333	0.193893	1.09375	Unclassified	chr11:96158484-96162883	2.4
Hoxb7	0	0	0	9	0.15	0.474679	0.386409	Unclassified	chr11:96145959-96151477	3.519
Hoxb8	0	0	0	10	0.166667	0.324648	0.57516	Unclassified	chr11:96141218-96146639	3.422
Hoxb9	0	0	0	15	0.25	0.175696	2.077448	Unclassified	chr11:96130643-96137907	5.265
Hoxb3	0	0	0	55	0.916667	0.153357	1.989193	Unclassified	chr11:96182439-96209244	24.806
Zfp7	0	0	0	201	3.35	1.90048	14.55121	Stalled	chr15:76707705-76722824	13.12
Hoxb4	0	0	0	93	1.55	2.24039	6.051145	Unclassified	chr11:96178052-96182944	2.893
Hoxb5	0	0	0	10	0.166667	0.324464	0.635002	Unclassified	chr11:96162825-96167435	2.611
Fbxw7	0	0	0	854	14.23333	20.0293	1.548221	Elongating	chr3:84754132-84781551	25.42
Fbxw14	0	0	0	0	0	0.044507	0	Unclassified	chr9:109173638-109192190	16.553
Ambr1	0	0	0	1679	27.98333	10.3777	19.62689	Unclassified	chr2:91568294-91759006	188.713
Apol7e	0	0	0	11	0.183333	0.119606	1.366219	Unclassified	chr15:77527318-77549718	20.401
Fbxo16	0	0	0	55	0.916667	0.041713	0.508521	Unclassified	chr14:65883537-65940339	54.803
Ivl	0	0	0	1	0.016667	0.026953	0	Unclassified	chr3:92374823-92379637	2.815
Ube2o	0	0	0	508	8.466667	11.811	5.972162	Unclassified	chr11:116399066-116444761	43.696
Qrich2	0	0	0	176	2.933333	0.047424	0.131393	Unclassified	chr11:116302638-116317861	13.024
Golph3	0	0	0	611	10.18333	17.2412	15.57925	Unclassified	chr15:12249250-12281022	29.773
Thg1l	0	0	0	323	5.383333	28.3044	15.19251	Unclassified	chr11:45761655-45770996	7.342
EtfA	0	0	0	407	6.783333	23.1074	32.30933	Stalled	chr9:55302242-55362050	57.809
Crebzf	0	0	0	456	7.6	21.1907	10.68381	Unclassified	chr7:97589290-97596229	4.94
Atf2	0	0	0	657	10.95	4.14452	65.23852	Stalled	chr2:73654578-73732685	76.108
Rhox4d	0	0	0	0	0	0	0	Unclassified	chrX:34927041-34933682	4.642
Fam83a	0	0	0	33	0.55	0.043028	0.44239	Unclassified	chr15:57815457-57842257	24.801

Lrp12	0	0	0	175	2.916667	0.559502	17.27334	Stalled	chr15:39702148-39777303	73.156
Ppme1	0	0	0	376	6.266667	12.2308	39.13192	Stalled	chr7:107475246-107522406	45.161
Ppfbp1	0	0	0	495	8.25	2.0197	28.25996	Stalled	chr6:146835015-146980545	143.531
Usp43	0	0	0	77	1.283333	0.229706	0.982541	Unclassified	chr11:67668024-67737655	67.632
Hcfc2	0	0	0	427	7.116667	6.61705	33.75847	Stalled	chr10:82159751-82204137	42.387
Sgcb	0	0	0	155	2.583333	1.70525	10.71297	Stalled	chr5:74023987-74040970	14.984
Bpil1	0	0	0	34	0.566667	0.04445	1.628475	Unclassified	chr2:153698780-153721006	20.227
Prdxdd1	0	0	0	312	5.2	12.3093	23.23205	Unclassified	chr11:29413054-29417033	1.98
Rgnef	0	0	0	269	4.483333	0.049144	3.240879	Unclassified	chr13:98668549-98978120	307.572
Cerkl	0	0	0	259	4.316667	0.899392	0.544932	Unclassified	chr2:79172647-79271145	96.499
Timp4	0	0	0	14	0.233333	0.018102	1.582168	Unclassified	chr6:115195633-115203867	6.235
Uts2d	0	0	0	19	0.316667	0.061396	0.483581	Unclassified	chr16:27353407-27372325	16.919
Gm11545	0	0	0	6	0.1	0.016651	0	Unclassified	chr11:94616449-94624496	6.048
Gm12250	0	0	0	136	2.266667	4.62838	3.349962	Unclassified	chr11:57995344-58003700	6.357
Gm5775	0	0	0	160	2.666667	0	103	Unclassified	chr7:106628072-106630217	0.146
Samd14	0	0	0	41	0.683333	0.3397	4.684435	Unclassified	chr11:94869192-94887401	16.21
Ppp1r9b	0	0	0	368	6.133333	14.025	4.034465	Unclassified	chr11:94850525-94868212	15.688
Rab14	0	0	0	729	12.15	18.4449	13.68658	Unclassified	chr2:35035724-35058640	20.917
Polr3a	0	0	0	812	13.53333	6.24864	7.1984	Unclassified	chr14:25267915-25308268	38.354
Xlr	0	0	0	10	0.166667	0.173424	1.236277	Unclassified	chrX:51086924-51102873	13.95
Fbxl21	0	0	0	28	0.466667	0.384454	9.037975	Unclassified	chr13:56621868-56639147	15.28
Atp6ap1l	0	0	0	22	0.366667	0.447208	0.523893	Unclassified	chr13:91023054-91046960	21.907
Tssk1	0	0	0	11	0.183333	0.057402	0.737357	Unclassified	chr16:17892295-17895746	1.452
Xlr3a	0	0	0	3	0.05	0.34318	1.814883	Unclassified	chrX:70331631-70344434	10.804
Noxa1	0	0	0	22	0.366667	0.327424	1.813257	Unclassified	chr2:24941191-24952725	9.535
Xlr3c	0	0	0	1	0.016667	0.274674	0	Unclassified	chrX:70499878-70512729	10.852
Tmem132d	0	0	0	559	9.316667	0.026963	0.547996	Unclassified	chr5:128263860-128940937	675.078
Rg9mtd3	0	0	0	150	2.5	1.86839	2.910541	Elongating	chr4:45308039-45329003	18.965
Esrp2	0	0	0	231	3.85	0.537078	0.220071	Unclassified	chr8:108655082-108662874	5.793
Anxa10	0	0	0	25	0.416667	0.052269	0	Unclassified	chr8:64536317-64603915	65.599
Aldh1a7	0	0	0	14	0.233333	0.015546	0.770669	Unclassified	chr19:20767442-20804046	34.605
Scrn1	0	0	0	65	1.083333	0.086548	1.43128	Unclassified	chr6:54458809-54518376	57.568
Dnaja4	0	0	0	278	4.633333	0.640816	2.586355	Elongating	chr9:54545365-54564119	16.755
Tmem90b	0	0	0	121	2.016667	0.018476	1.195983	Unclassified	chr2:149654578-149830128	173.551
Vsig8	0	0	0	23	0.383333	1.73645	1.867769	Unclassified	chr1:174484068-174493847	7.78
Olf1222	0	0	0	0	0	0	0	Unclassified	chr2:88964950-88967886	0.937
Olf1708	0	0	0	0	0	0.025675	0	Unclassified	chr7:114055713-114058637	0.925
Elf5	0	0	0	64	1.066667	0.048318	0.375558	Unclassified	chr2:103250254-103291143	38.89
Sctr	0	0	0	104	1.733333	0.066682	0.352603	Unclassified	chr1:121901556-121960109	56.554
Elk3	0	0	0	1021	17.01667	5.96849	4.127336	Unclassified	chr10:92710160-92775904	63.745
Elk1	0	0	0	198	3.3	5.40208	18.53056	Stalled	chrX:20510520-20529726	17.207
Olf1331	0	0	0	0	0	0.005579	0	Unclassified	chr11:58315099-58318056	0.958
Olf1180	0	0	0	3	0.05	0.023787	0	Unclassified	chr16:58915513-58920312	2.8
Olf1151	0	0	0	2	0.033333	0	0	Unclassified	chr9:37537562-37540646	1.085
Rasl2-9	0	0	0	31	0.516667	25.3256	28	Unclassified	chr7:5076543-5079552	1.01
Ppil5	0	0	0	228	3.8	7.8201	27.19095	Stalled	chr12:70267800-70279997	10.198
BC021891	0	0	0	54	0.9	0.081059	1.693873	Unclassified	chr8:128432349-128471339	36.991
Tcfcp21l	0	0	0	73	1.216667	0.146551	5.805119	Unclassified	chr1:120522521-120581745	57.225
Mycbp	0	0	0	224	3.733333	6.48943	16.60636	Stalled	chr4:123580255-123589493	7.239
Kdm1a	0	0	0	596	9.933333	15.4825	15.37237	Unclassified	chr4:136106449-136160638	52.19
Fam154a	0	0	0	78	1.3	0.027938	0.593897	Unclassified	chr4:86090601-86206207	113.607
Tgfb2	0	0	0	121	2.016667	0.930144	3.429961	Unclassified	chr1:188447064-188531871	82.808
Smarcad1	0	0	0	759	12.65	4.37106	34.45001	Unclassified	chr6:64990660-65066043	73.384
4921523A10Rik	0	0	0	111	1.85	0.044256	0	Unclassified	chr17:53646784-53680776	31.993
Gm9758	0	0	0	0	0	0	0	Unclassified	chr5:14910123-14916889	4.767
Tomm20	0	0	0	948	15.8	44.6605	5.31878	Unclassified	chr8:129458449-129471730	11.282
Ccl24	0	0	0	11	0.183333	0.039771	0.417095	Unclassified	chr5:136045806-136050913	3.108
Prl8a1	0	0	0	2	0.033333	0	0	Unclassified	chr13:27665790-27676040	8.251
1600027N09Rik	0	0	0	347	5.783333	16.2372	0.058571	Unclassified	chr2:180314008-180320339	4.332
Rassf6	0	0	0	66	1.1	1.00803	4.58219	Unclassified	chr5:91032101-91071513	37.413
Pon3	0	0	0	132	2.2	3.08175	9.986976	Unclassified	chr6:5170851-5208233	35.383
Lctl	0	0	0	93	1.55	0.042999	0	Unclassified	chr9:63962953-63985925	20.973
Layn	0	0	0	31	0.516667	0.351621	3.65166	Unclassified	chr9:50864885-50887199	20.315
Ttll3	0	0	0	477	7.95	0	5.899473	Unclassified	chr6:113340490-113364563	22.074
Accn1	0	0	0	1075	17.91667	0.070441	1.007521	Unclassified	chr11:80693666-81783898	1088.233
Ly6g5c	0	0	0	17	0.283333	0	0.583303	Unclassified	chr17:35243244-35248898	3.655
Ly6g6d	0	0	0	1	0.016667	0.190656	0	Unclassified	chr17:35208292-35213409	3.118
Olf1847	0	0	0	1	0.016667	0.027298	1	Unclassified	chr9:19179384-19182323	0.94
D630037F22Rik	0	0	0	446	7.433333	0.878047	36.68736	Stalled	chr10:55734099-55950495	214.397
Sap25	0	0	0	80	1.333333	12.718	1.690316	Unclassified	chr5:138080700-138084129	1.43
Crb1	0	0	0	121	2.016667	0.068143	1.198178	Unclassified	chr1:141094830-141275653	178.824
Hnrnpd	0	0	0	1206	20.1	41.4729	9.045412	Unclassified	chr5:100384954-100409957	23.004
Cdc42ep4	0	0	0	378	6.3	1.94751	5.390453	Unclassified	chr11:113588163-113614474	24.312
Olf1782	0	0	0	0	0	0	0	Unclassified	chr10:128785620-128788565	0.946
Olf1249	0	0	0	1	0.016667	0.014943	0	Unclassified	chr2:89470098-89473053	0.956
Ophn1	0	0	0	88	1.466667	0.198829	1.588981	Unclassified	chrX:95752853-96088324	333.472
Adarb2	0	0	0	306	5.1	0.018792	0.646676	Unclassified	chr13:8200154-8759554	557.401
Ccnl2	0	0	0	1088	18.13333	46.2849	10.13534	Unclassified	chr4:155184597-155198652	12.056
Cd200	0	0	0	131	2.183333	2.89986	10.4708	Stalled	chr16:45382247-45411166	26.92
Homer2	0	0	0	199	3.316667	0.267905	2.532605	Unclassified	chr7:88745367-88853811	106.445
Gbp4	0	0	0	256	4.266667	5.76426	3.801293	Unclassified	chr5:105544785-105570571	23.787
Clec4d	0	0	0	11	0.183333	0.365631	1.149419	Unclassified	chr6:123210124-123225285	13.162
Mpdz	0	0	0	82	1.366667	0.025582	1.347935	Unclassified	chr4:80924403-81090709	164.307
Dner	0	0	0	222	3.7	0.067046	1.796431	Unclassified	chr1:84366413-84694796	326.384
Dnajc8	0	0	0	554	9.233333	69.9907	7.348841	Unclassified	chr4:132089473-132109657	18.185
Fkbp1a	0	0	0	707	11.78333	41.7749	11.51048	Unclassified	chr2:151366234-151387427	19.194

Opa1	0	0	0	613	10.21667	8.71041	16.64543	Unclassified	chr16:29577427-29652576	73.15
Tm9sf1	0	0	0	635	10.58333	17.8113	10.67096	Unclassified	chr14:56254802-56264643	7.842
Ehhadh	0	0	0	120	2	1.78482	14.3908	Stalled	chr16:21761357-21789907	26.551
F13a1	0	0	0	126	2.1	0.25445	0.591553	Unclassified	chr13:36959046-37143082	182.037
Robo4	0	0	0	15	0.25	0.020845	0	Unclassified	chr9:37207630-37221607	11.978
Fam158a	0	0	0	200	3.333333	15.3818	1.574416	Elongating	chr14:56200360-56206091	3.732
1300003B13Rik	0	0	0	70	1.166667	1.15576	19.24186	Stalled	chr17:22559234-22593656	32.423
OlfR648	0	0	0	1	0.016667	0.175197	0	Unclassified	chr7:111327969-111330920	0.952
Imp11	0	0	0	337	5.616667	4.65804	41.80201	Stalled	chr2:105742794-105805715	60.922
Rtn3	0	0	0	754	12.56667	29.9113	32.27406	Unclassified	chr19:7500390-7559771	57.382
6430550D23Rik	0	0	0	160	2.666667	0.295069	17.36111	Stalled	chr2:155826179-155835713	7.535
7420416P09Rik	0	0	0	8	0.133333	0.046559	0	Unclassified	chr12:85981845-85992404	8.56
Sico2a1	0	0	0	116	1.933333	0.057202	1.234942	Unclassified	chr9:102908818-102990179	79.362
Ano4	0	0	0	170	2.833333	0.021791	0	Unclassified	chr10:88411738-88722535	308.798
Ifna12	0	0	0	1	0.016667	0.022604	0	Unclassified	chr4:88248483-88251280	0.798
Rtkn	0	0	0	57	0.95	0.411152	1.75881	Unclassified	chr6:83083801-83102572	16.772
Rtn2	0	0	0	36	0.6	3.49105	3.423757	Unclassified	chr7:19866015-19881509	13.495
Bex6	0	0	0	16	0.266667	0.091266	0	Unclassified	chr16:32177885-32187030	7.146
Gm1006	0	0	0	41	0.683333	0.072717	1.491185	Unclassified	chr2:153764597-153789588	22.992
Uck1	0	0	0	379	6.316667	13.1182	6.695639	Unclassified	chr2:32110521-32117625	5.105
Lhx5	0	0	0	33	0.55	0.566544	1.532124	Unclassified	chr5:120879894-120891466	9.573
Lhx4	0	0	0	66	1.1	0.290616	1.18795	Unclassified	chr1:157548823-157591157	40.335
Lhx3	0	0	0	25	0.416667	0.028861	1.051017	Unclassified	chr2:26055731-26064076	6.346
Lhx2	0	0	0	49	0.816667	0.560644	1.852682	Unclassified	chr2:38204827-38225248	18.422
Shc4	0	0	0	301	5.016667	0.629959	0.732976	Unclassified	chr2:125453182-125551884	96.703
Themis	0	0	0	103	1.716667	0.096558	0.676556	Unclassified	chr10:28386200-28602555	214.356
Lhx6	0	0	0	48	0.8	0.374083	0.328045	Unclassified	chr2:35937472-35962928	23.457
Nrbf2	0	0	0	546	9.1	5.53854	10.49448	Unclassified	chr10:66729436-66750029	18.594
Kfbp4	0	0	0	427	7.116667	89.9719	8.228352	Unclassified	chr6:128380124-128390649	8.526
Fabp7	0	0	0	4	0.066667	0.269109	1.116803	Unclassified	chr10:57502728-57508256	3.529
Ugt2b36	0	0	0	18	0.3	0	0.615662	Unclassified	chr5:87494951-87523580	26.63
Trim71	0	0	0	89	1.483333	0.106144	2.313732	Unclassified	chr9:114420392-114475487	53.096
Pgm3	0	0	0	372	6.2	3.33094	17.75996	Unclassified	chr9:86446082-86467449	19.368
6030405A18Rik	0	0	0	16	0.266667	0.029081	1.792757	Unclassified	chr3:54700990-54721809	18.82
Cpne3	0	0	0	257	4.283333	1.61567	20.76713	Stalled	chr4:19446398-19499251	50.854
Tnn	0	0	0	60	1	0.015444	1.076014	Unclassified	chr1:162015164-162085706	68.543
2010110P09Rik	0	0	0	11	0.183333	0.109448	1.216056	Unclassified	chr7:129361009-129366053	3.045
Zyg11b	0	0	0	544	9.066667	2.90388	23.57088	Unclassified	chr4:107900359-107975695	73.337
Htr4	0	0	0	76	1.266667	0.019264	1.335206	Unclassified	chr18:62481857-62627456	143.6
Vamp5	0	0	0	89	1.483333	1.74569	5.850468	Unclassified	chr6:72318042-72332462	12.421
Gria3	0	0	0	106	1.766667	0.14804	0	Unclassified	chrX:38752480-39031778	277.299
Cldn7	0	0	0	65	1.083333	0.943147	0.164235	Unclassified	chr11:69777002-69781380	2.379
Porcn	0	0	0	22	0.366667	0.275176	2.035952	Unclassified	chrX:7770975-7785651	12.677
Inmt	0	0	0	5	0.083333	0.025056	0.528672	Unclassified	chr6:55120620-55126984	4.365
OlfR530	0	0	0	4	0.066667	0.055416	2	Unclassified	chr7:147558583-147561507	0.925
1700018C11Rik	0	0	0	26	0.433333	0	2.580684	Unclassified	chr4:63268124-63285463	15.34
Tep1	0	0	0	375	6.25	3.72041	26.41695	Stalled	chr14:51443735-51492229	46.495
Adad1	0	0	0	19	0.316667	0.032496	1.490916	Unclassified	chr3:36960577-37010434	47.858
Ndufv3	0	0	0	310	5.166667	118.852	14.03825	Unclassified	chr17:31655059-31668270	11.212
Terf1	0	0	0	628	10.46667	9.9001	18.56818	Unclassified	chr1:15793738-15833510	37.773
Terc	0	0	0	238	3.966667	10.749	237	Unclassified	chr3:96218359-96220756	0.398
Dmrtc2	0	0	0	12	0.2	0.031581	1.268009	Unclassified	chr7:25653078-25662666	7.589
Sec22c	0	0	0	241	4.016667	1.48814	19.40177	Stalled	chr9:121589163-121616147	24.985
Cd1d1	0	0	0	96	1.6	4.67352	27.37703	Stalled	chr3:86799757-86805262	3.506
Fam12	0	0	0	1	0.016667	0	0	Unclassified	chr14:51734227-51737466	1.24
Rsb1l1	0	0	0	1186	19.76667	3.77613	22.40782	Unclassified	chr5:20398841-20459640	58.8
Klhl32	0	0	0	320	5.333333	1.03464	3.853029	Unclassified	chr4:24544419-24780233	233.815
OlfR335	0	0	0	2	0.333333	0.027298	0	Unclassified	chr2:36155016-36157999	0.984
Ssx3	0	0	0	0	0	0	0	Unclassified	chrX:8160669-8168372	5.704
Pum2	0	0	0	1438	23.96667	12.9911	32.16038	Unclassified	chr12:8678939-8759387	78.449
Pum1	0	0	0	2726	45.43333	11.6609	12.61111	Unclassified	chr4:130217273-130337477	118.205
Gpr84	0	0	0	13	0.216667	0.4049	0	Unclassified	chr15:103138665-103142869	2.205
Dusp12	0	0	0	318	5.3	10.3896	10.59391	Unclassified	chr1:172804318-172817671	11.354
Map4k5	0	0	0	753	12.55	2.29032	16.91626	Unclassified	chr12:70904743-70996150	89.408
Gpr11	0	0	0	27	0.45	0.105229	1.028459	Unclassified	chr13:54838033-54853030	12.998
Figla	0	0	0	4	0.066667	0	0.483382	Unclassified	chr6:85965184-85970990	3.807
Pds5a	0	0	0	1614	26.9	18.1612	14.26632	Unclassified	chr5:66006498-66091095	82.598
OlfR971	0	0	0	0	0	0	0	Unclassified	chr9:39645020-39647944	0.925
Lect2	0	0	0	8	0.133333	0.102297	0.503968	Unclassified	chr13:56643820-56651899	6.08
Ahctf1	0	0	0	1214	20.23333	10.0356	17.31215	Unclassified	chr1:181675034-181736146	59.113
Abra	0	0	0	16	0.266667	0.363687	0.444488	Unclassified	chr15:41696838-41703266	4.429
Cnst	0	0	0	598	9.966667	4.62968	29.63133	Unclassified	chr1:181474659-181557604	80.946
Fut4	0	0	0	131	2.183333	2.22758	8.93006	Unclassified	chr9:14552902-14558566	3.665
Ifitm1	0	0	0	5	0.083333	0.553703	0	Unclassified	chr7:148151327-148155726	2.4
6720463M24Rik	0	0	0	723	12.05	11.7371	18.49864	Unclassified	chr14:99443595-99473326	27.732
Lrp3	0	0	0	26	0.433333	0.0358	0.358512	Unclassified	chr7:35985952-36002364	14.413
Tmem132c	0	0	0	342	5.7	0.035093	1.954509	Unclassified	chr5:127720195-128046160	323.966
rpf2	0	0	0	629	10.48333	19.3545	10.53192	Unclassified	chr10:39943051-39968785	23.735
2810453I06Rik	0	0	0	178	2.966667	3.58191	19.62172	Stalled	chr5:144307573-144325393	15.821
Mansc1	0	0	0	51	0.85	0.924514	5.542589	Unclassified	chr6:134559225-134584506	23.282
OlfR973	0	0	0	1	0.016667	0	0	Unclassified	chr9:39715389-39718313	0.925
Krtap31-2	0	0	0	2	0.033333	0.075374	1	Unclassified	chr11:99795604-99798539	0.936
Zfp329	0	0	0	295	4.916667	1.6678	25.64697	Stalled	chr7:13389126-13406209	15.084
Zkscan14	0	0	0	231	3.85	9.51412	9.092648	Unclassified	chr5:145955814-145964751	6.938
Ogn	0	0	0	24	0.4	0	0.401525	Unclassified	chr13:49701439-49719869	16.431
Chsy1	0	0	0	955	15.91667	5.75053	15.27013	Unclassified	chr7:73252400-73318684	64.285

Nobox	0	0	0	11	0.183333	0.013541	0.703357	Unclassified	chr6:43253672-43261553	5.882
Sebox	0	0	0	92	1.533333	0.019932	0.906312	Unclassified	chr11:78315014-78318584	1.571
Sc5d	0	0	0	615	10.25	16.0955	10.62426	Unclassified	chr9:42062259-42074383	10.125
Ubf1	0	0	0	625	10.41667	7.48253	16.033	Unclassified	chr7:129208711-129225713	15.003
Ing4	0	0	0	212	3.533333	10.9042	4.654161	Unclassified	chr6:124987865-124999282	9.418
Gpr12	0	0	0	4	0.066667	0.550159	2.02944	Unclassified	chr5:147393725-147398815	3.091
S1pr2	0	0	0	126	2.1	2.8358	6.937879	Unclassified	chr9:20770395-20783237	10.843
Olfr968	0	0	0	1	0.016667	0	1	Unclassified	chr9:39579438-39582383	0.946
Gpc1	0	0	0	65	1.083333	0.245358	1.302158	Unclassified	chr1:94726262-94756773	28.512
Gpaa1	0	0	0	371	6.183333	14.5572	9.514992	Unclassified	chr15:76159723-76165329	3.607
Grin1a	0	0	0	531	8.85	48.9392	4.601062	Unclassified	chr9:71326244-71335790	7.547
Gpc3	0	0	0	107	1.783333	0.033936	1.528669	Unclassified	chrX:49625605-49699151	341.547
Gpc4	0	0	0	32	0.533333	0.049633	1.574184	Unclassified	chrX:49406195-49520100	111.906
Olfr482	0	0	0	0	0	0.005424	0	Unclassified	chr7:115238110-115241082	0.973
4930408021Rik	0	0	0	94	1.566667	0.126001	0.301322	Unclassified	chr7:127802809-127815857	11.049
Ccdc125	0	0	0	262	4.366667	3.40225	17.64827	Stalled	chr13:101437435-101467194	27.76
Ncapg2	0	0	0	1075	17.91667	8.15942	20.70039	Unclassified	chr12:117641874-117702004	58.131
Hormad1	0	0	0	25	0.416667	0.011971	0.562464	Unclassified	chr3:95361598-95391593	27.996
Gm9785	0	0	0	3	0.05	0.076601	2	Unclassified	chrX:100720833-100723418	0.586
Bnc1	0	0	0	35	0.583333	0.060467	1.352825	Unclassified	chr7:89111547-89139185	25.639
Lyve1	0	0	0	12	0.2	0.054077	0.507786	Unclassified	chr7:117994120-118008467	12.348
Tmem30b	0	0	0	7	0.116667	0.167808	0.864282	Unclassified	chr12:74644100-74649382	3.283
Olfr970	0	0	0	0	0	0.061601	0	Unclassified	chr9:39625225-39628161	0.937
Gnpda2	0	0	0	191	3.183333	2.53816	19.55213	Stalled	chr5:69966240-69985524	17.285
Gpr135	0	0	0	13	0.216667	4.64418	0.666667	Unclassified	chr12:73170604-73173978	1.375
Tbx20	0	0	0	39	0.65	0.072163	2.440926	Unclassified	chr9:24527647-24580746	51.1
Bbx	0	0	0	1349	22.48333	2.06558	25.1965	Unclassified	chr16:50191957-50434502	240.546
Sifn5	0	0	0	160	2.666667	5.67854	4.18267	Unclassified	chr11:82763603-82778352	12.75
Olfr508	0	0	0	2	0.033333	0	2	Unclassified	chr7:115771507-115774440	0.934
Nog	0	0	0	2	0.033333	0.333411	0.479979	Unclassified	chr11:89161951-89165873	1.923
Nos1	0	0	0	133	2.216667	0.043832	1.197434	Unclassified	chr5:118315127-118403820	86.694
Nr4a3	0	0	0	72	1.2	0.591837	2.026318	Unclassified	chr4:48062119-48096224	32.106
Olfr1099	0	0	0	0	0	0.027298	0	Unclassified	chr2:86798674-86801613	0.94
Olfr1110	0	0	0	0	0	0.013617	0	Unclassified	chr2:86975537-86978476	0.94
Olfr259	0	0	0	1	0.016667	0.040914	0	Unclassified	chr2:86947603-86950542	0.94
Olfr1176	0	0	0	0	0	0	0	Unclassified	chr2:88177723-88180671	0.949
Hepacam	0	0	0	19	0.316667	0.390019	0.499541	Unclassified	chr9:37173190-37194156	18.967
Gckr	0	0	0	29	0.483333	0.012727	1.634372	Unclassified	chr5:31597953-31629675	29.723
Psd3	0	0	0	356	5.933333	0.386111	1.793517	Unclassified	chr8:70212980-70500473	285.494
Nup155	0	0	0	825	13.75	5.13061	20.14385	Unclassified	chr15:8057312-8109859	50.548
Pdzd3	0	0	0	20	0.333333	0.117527	0.868679	Unclassified	chr9:44055394-44061547	4.154
Acbd3	0	0	0	544	9.066667	8.4723	21.96421	Unclassified	chr1:182654173-182684334	28.162
Rfxap	0	0	0	174	2.9	10.2416	31.83245	Stalled	chr3:54607036-54613713	4.678
Ripply3	0	0	0	22	0.366667	1.11436	4.550409	Unclassified	chr16:94548028-94558542	8.515
Cdc14a	0	0	0	1224	20.4	3.91142	38.28835	Unclassified	chr3:115975470-116128950	151.481
Olfr788	0	0	0	0	0	0	0	Unclassified	chr10:128907749-128910685	0.937
Olfr811	0	0	0	1	0.016667	0.045543	1	Unclassified	chr10:129238619-129241579	0.961
Olfr806	0	0	0	0	0	0.005597	0	Unclassified	chr10:129175029-129177971	0.943
Olfr803	0	0	0	1	0.016667	0.008531	1	Unclassified	chr10:129128168-129131095	0.928
Olfr771	0	0	0	3	0.05	0	2	Unclassified	chr10:128597084-128600038	0.955
Olfr800	0	0	0	1	0.016667	0.020523	0	Unclassified	chr10:129094863-129097799	0.937
Olfr786	0	0	0	0	0	0.013617	0	Unclassified	chr10:128871869-128874808	0.94
Olfr810	0	0	0	0	0	0	0	Unclassified	chr10:129227704-129230643	0.94
Kif18a	0	0	0	416	6.933333	1.82264	24.22017	Stalled	chr2:109118894-109181903	61.01
Hus1	0	0	0	381	6.35	3.22422	14.99757	Unclassified	chr11:8893144-8913140	17.997
Olfr805	0	0	0	1	0.016667	0.058893	1	Unclassified	chr10:129159638-129162598	0.961
Olfr798	0	0	0	0	0	0	0	Unclassified	chr10:129062179-129065115	0.937
Olfr629	0	0	0	2	0.033333	0.022846	0	Unclassified	chr7:110888714-110891836	1.123
Olfr640	0	0	0	4	0.066667	0.08146	1	Unclassified	chr7:111169886-111172830	0.945
Rhox2d	0	0	0	2	0.033333	0.003316	0.76782	Unclassified	chrX:34905916-34912222	4.307
Olfr1424	0	0	0	3	0.05	0	1	Unclassified	chr19:12133298-12136240	0.943
Klhl4	0	0	0	13	0.216667	0.051014	0	Unclassified	chrX:11586128-11674307	86.18
Rhox2f	0	0	0	0	0	0.003384	0	Unclassified	chrX:34983927-34990666	4.74
Rhox2g	0	0	0	0	0	0.019315	0	Unclassified	chrX:35053618-35059977	4.36
Rnf20	0	0	0	490	8.166667	16.913	11.15321	Unclassified	chr4:49642931-49669758	24.828
Rhox8	0	0	0	2	0.033333	0	0	Unclassified	chrX:35227952-35234121	4.17
Rhox10	0	0	0	5	0.083333	0	0	Unclassified	chrX:35417651-35424865	5.215
Irf2bp1	0	0	0	159	2.65	9.50949	3.927798	Unclassified	chr7:19587413-19592112	2.7
Rnase12	0	0	0	9	0.15	0.204827	8	Unclassified	chr14:51676457-51678895	0.439
H28	0	0	0	3	0.05	0.069224	0.759384	Unclassified	chr3:151421700-151427855	4.156
Fat1	0	0	0	91	1.516667	0.034172	0	Unclassified	chr8:46033561-46137611	102.051
Ern2	0	0	0	149	2.483333	0.073285	0.389639	Unclassified	chr7:129313406-129331730	16.325
Nefl	0	0	0	6	0.1	0.102479	1.176107	Unclassified	chr14:68699940-68705794	3.855
Foxh1	0	0	0	13	0.216667	0.042438	0.510057	Unclassified	chr15:76498736-76502303	1.568
Rln1	0	0	0	4	0.066667	0.42292	0.389872	Unclassified	chr19:29406244-29411160	2.917
Olfr1428	0	0	0	0	0	0.027153	0	Unclassified	chr19:12183090-12186034	0.945
Tmem106b	0	0	0	248	4.133333	4.01069	24.67989	Stalled	chr6:13017758-13039269	19.512
Olfr820	0	0	0	2	0.033333	0	2	Unclassified	chr10:129452418-129455357	0.94
Frat2	0	0	0	53	0.883333	4.93235	25.76748	Stalled	chr19:41920464-41924622	2.159
2310028H24Rik	0	0	0	288	4.8	3.39044	16.62682	Stalled	chr4:41465961-41518560	50.6
Vamp8	0	0	0	194	3.233333	49.0405	6.481681	Unclassified	chr6:72335214-72342661	5.448
Vax1	0	0	0	8	0.133333	0.113419	0.288907	Unclassified	chr19:59240676-59246519	3.844
Vbp1	0	0	0	188	3.133333	13.1486	20.96915	Stalled	chrX:72757635-72780285	20.651
Lmbr1l	0	0	0	494	8.233333	10.2604	11.20958	Unclassified	chr15:98734351-98750529	14.179
L2hgdh	0	0	0	399	6.65	2.98713	76.46972	Stalled	chr12:70791422-70827861	34.44
Hhati	0	0	0	18	0.3	0.068573	0.348595	Unclassified	chr9:121693134-121703625	8.492

Paqr7	0	0	0	50	0.833333	0.644847	9.188855	Unclassified	chr4:134050892-134064725	11.834
Rrp7a	0	0	0	654	10.9	35.3987	2.503648	Elongating	chr15:82946278-82955231	6.954
Olfr1318	0	0	0	1	0.016667	0.013277	0	Unclassified	chr2:111994109-111997072	0.964
Lypd3	0	0	0	19	0.316667	0.597501	1.219931	Unclassified	chr7:25419588-25426137	4.55
Med24	0	0	0	525	8.75	16.1032	2.901775	Elongating	chr11:98565904-98592749	24.846
Tug1	0	0	0	550	9.166667	3.73896	17.45079	Unclassified	chr11:3539796-3550811	9.016
Ceacam18	0	0	0	19	0.316667	0.013233	0.949469	Unclassified	chr7:50888108-50904664	14.557
Rab38	0	0	0	22	0.366667	0.227557	3.080472	Unclassified	chr7:95576782-95640082	61.301
Spink5	0	0	0	25	0.416667	0.021517	1.433832	Unclassified	chr18:44120894-44182141	59.248
E2f8	0	0	0	816	13.6	11.3899	7.193232	Unclassified	chr7:56121799-56138411	14.613
Peci	0	0	0	188	3.133333	15.217	9.027207	Unclassified	chr13:35069616-35087996	16.381
Slc26a4	0	0	0	44	0.733333	0.218243	2.604854	Unclassified	chr12:32204683-32246834	40.152
Pde10a	0	0	0	243	4.05	0.081379	0.435892	Unclassified	chr17:8992609-9179513	184.905
Nt5c2	0	0	0	1361	22.68333	7.66968	13.30604	Unclassified	chr19:46961320-47038841	75.522
Lymr1	0	0	0	241	4.016667	3.39325	27.84351	Stalled	chr7:127037805-127060264	20.46
St5	0	0	0	693	11.55	0.120745	0.355565	Unclassified	chr7:116667424-116762661	93.238
Olfr485	0	0	0	1	0.016667	0.080606	1	Unclassified	chr7:115302431-115305385	0.955
Kdm3a	0	0	0	515	8.583333	6.13166	31.66607	Unclassified	chr6:71538965-71584899	43.935
Speer4b	0	0	0	1	0.016667	0	0	Unclassified	chr5:27822349-27829932	5.584
Ephb1	0	0	0	397	6.616667	0.045148	1.570155	Unclassified	chr9:101824459-102259023	432.565
Txndc17	0	0	0	212	3.533333	22.2359	23.18945	Stalled	chr11:72019055-72023989	2.935
Pck2	0	0	0	279	4.65	15.9088	8.311073	Unclassified	chr14:56157102-56168854	9.753
Olfr488	0	0	0	1	0.016667	0.027125	1	Unclassified	chr7:115398705-115401650	0.946
Hes6	0	0	0	329	5.483333	19.8109	13.32209	Unclassified	chr1:93308059-93311799	1.741
Klf9	0	0	0	312	5.2	3.76722	14.50789	Unclassified	chr19:23213715-23241401	25.687
Elov17	0	0	0	125	2.083333	0.076636	27.88685	Stalled	chr13:109002597-109077299	72.703
Olfr503	0	0	0	1	0.016667	0.065802	1	Unclassified	chr7:115686040-115689012	0.973
Ccr8	0	0	0	5	0.083333	0.043437	0.940397	Unclassified	chr9:119999250-120004024	2.775
Olfr723	0	0	0	0	0	0.013748	0	Unclassified	chr14:50548237-50551243	1.007
Coq3	0	0	0	335	5.583333	1.94912	53.55151	Stalled	chr4:21804821-21839273	32.453
Olfr1251	0	0	0	0	0	0.022827	0	Unclassified	chr2:89507084-89510041	0.958
Olfr456	0	0	0	2	0.033333	0.022071	1	Unclassified	chr6:42436161-42439213	1.053
5430413K10Rik	0	0	0	8	0.133333	0.031276	0.639175	Unclassified	chr2:154130979-154146378	13.4
Olfr329	0	0	0	0	0	0.002807	0	Unclassified	chr11:58356019-58358958	0.94
Angptl7	0	0	0	47	0.783333	0	1.341714	Unclassified	chr4:147869388-147876571	5.184
Atrx	0	0	0	1381	23.01667	13.0306	17.82451	Unclassified	chrX:102992955-103126711	131.757
Sgsm2	0	0	0	267	4.45	1.87376	10.11252	Stalled	chr11:74662765-74712582	47.818
C030030A07Rik	0	111.7637	0	108	1.8	0.262322	0.929811	Unclassified	chr6:136778451-136785971	5.521
2010305A19Rik	0	0	0	300	5	5.90324	16.71569	Unclassified	chr4:107998756-108013323	12.568
Fmo9	0	0	0	15	0.25	0.012545	0	Unclassified	chr1:168592185-168613976	19.792
2310009B15Rik	0	0	0	106	1.766667	8.6839	7.080459	Unclassified	chr1:140748555-140755431	4.877
Reps2	0	0	0	64	1.066667	0.119261	4.794383	Unclassified	chrX:158849885-159083533	231.649
2010107G23Rik	0	0	0	13	0.216667	0.216239	2.243919	Unclassified	chr10:61570403-61575761	3.359
Mapk1ip1	0	0	0	272	4.533333	7.60903	21.54474	Stalled	chr7:146027500-146039950	10.451
Lyg1	0	0	0	15	0.25	0	0	Unclassified	chr1:38003582-38016604	11.023
Slc16a8	0	0	0	53	0.883333	0.225404	0.21989	Unclassified	chr15:79081445-79087178	3.734
2300002M23Rik	0	0	0	1	0.016667	0.082156	1	Unclassified	chr17:35702429-35705890	1.462
Ube2w	0	0	0	959	15.98333	3.52948	20.75875	Unclassified	chr1:16559486-16611367	49.882
Atcay	0	0	0	64	1.066667	0.203157	0.910362	Unclassified	chr10:80667257-80695524	26.268
Olfr487	0	0	0	0	0	0.01353	0	Unclassified	chr7:115355096-115358041	0.946
Gm5662	0	0	0	2	0.033333	0	1	Unclassified	chr12:89509079-89514941	3.863
D11Bwg0517e	0	0	0	682	11.36667	0.16691	1.144494	Unclassified	chr11:118351073-118772886	419.814
Zfp804a	0	0	0	69	1.15	0.033703	0.751118	Unclassified	chr2:81891814-82100035	206.222
Gbp9	0	0	0	223	3.716667	8.10265	4.881283	Unclassified	chr5:105507412-105541311	31.9
Chrna9	0	0	0	18	0.3	0.127971	0	Unclassified	chr5:66356362-66368725	10.364
Gm10094	0	0	0	235	3.916667	0	8.571637	Unclassified	chr14:58415054-58421166	4.113
Depdc5	0	0	0	1153	19.21667	8.85454	27.37639	Unclassified	chr5:33204369-33336881	130.513
Kcnq4	0	0	0	111	1.85	0.581491	0.62965	Unclassified	chr4:120370077-120421781	49.705
C430048L16Rik	0	0	0	121	2.016667	3.88148	14.5319	Stalled	chr4:12014516-12023418	6.903
Gm12886	0	0	0	5	0.083333	0.027846	0	Unclassified	chr4:121087339-121097704	8.366
Gm12887	0	0	0	7	0.116667	0.078944	0	Unclassified	chr4:121286608-121296730	8.123
Plcd4	0	0	0	106	1.766667	0.068625	0.534048	Unclassified	chr1:74587462-74612551	23.09
Olfr449	0	0	0	1	0.016667	0	1	Unclassified	chr6:42785881-42788817	0.937
Gm5409	0	0	0	2	0.033333	0	0	Unclassified	chr6:41363305-41369592	4.288
1600015I10Rik	0	0	0	6	0.1	0.03097	1.165275	Unclassified	chr6:48877894-48883685	3.792
Pot1b	0	0	0	169	2.816667	1.06122	32.11893	Stalled	chr17:55791322-55853926	60.605
Trim15	0	0	0	163	2.716667	0.354657	0.388931	Unclassified	chr17:36997635-37006132	6.498
Olfr535	0	0	0	1	0.016667	0	1	Unclassified	chr7:147676538-147679477	0.94
Tmem160	0	0	0	104	1.733333	71.9556	5.534733	Unclassified	chr7:17036127-17040839	2.713
Tal2	0	0	0	13	0.216667	0.123234	1.628771	Unclassified	chr4:53790576-53799757	7.182
Olfr78	0	0	0	10	0.166667	0.039842	0	Unclassified	chr7:109889234-109909985	18.752
Plekhhg5	0	0	0	58	0.966667	0.587286	0	Unclassified	chr4:151468827-151489509	18.683
Duox2	0	0	0	29	0.483333	0.056273	0.783056	Unclassified	chr2:122106172-122125901	17.73
Lrrc52	0	0	0	30	0.5	0	0.853674	Unclassified	chr1:169375805-169398911	21.107
Smg7	0	0	0	1236	20.6	9.38458	26.1703	Unclassified	chr1:154684125-154751776	65.652
Nox4	0	0	0	47	0.783333	0.058539	2.322427	Unclassified	chr7:94393304-94547116	151.813
Wnk2	0	0	0	192	3.2	0.22476	2.246373	Unclassified	chr13:49131670-49245383	111.714
Kdm5b	0	0	0	271	4.516667	3.23025	30.99574	Stalled	chr1:136454754-136529455	72.702
Tm4sf5	0	0	0	22	0.366667	0.882522	0.41064	Unclassified	chr11:70316775-70324683	5.909
Chmp4b	0	0	0	1464	24.4	107.736	5.15857	Unclassified	chr2:154480761-154520519	37.759
AI451617	0	0	0	235	3.916667	5.90423	4.043693	Unclassified	chr7:111618530-111658363	37.834
Gipc3	0	0	0	59	0.983333	2.19029	3.227601	Unclassified	chr10:80800506-80808011	5.506
Tsen15	0	0	0	258	4.3	5.98827	10.92586	Unclassified	chr1:154217867-154235812	15.946
Tigd3	0	0	0	160	2.666667	1.31798	6.150128	Unclassified	chr19:5891137-5896107	2.971
Gla	0	0	0	370	6.166667	3.73338	5.062797	Unclassified	chrX:131122707-131137544	12.838
Msnl	0	0	0	29	0.483333	0.014631	0.658579	Unclassified	chr17:25870984-25885275	12.292

Prss34	0	0	0	5	0.083333	0.063238	0.555435	Unclassified	chr17:25433338-25437106	1.769
No17	0	0	0	472	7.866667	33.3816	9.10225	Unclassified	chr13:43491744-43498227	4.484
Angpt2	0	0	0	514	8.566667	0	1.19097	Unclassified	chr8:18691336-18743551	50.216
Angpt1	0	0	0	114	1.9	2.28855	4.921988	Unclassified	chr15:42256270-42510341	252.072
Agrrn	0	0	0	90	1.5	1.68358	0.97303	Unclassified	chr4:155539398-155561244	19.847
Nhlh2	0	0	0	3	0.05	0.045868	0	Unclassified	chr3:101812067-101819415	5.349
Zdhhc25	0	0	0	1	0.016667	0.051637	0	Unclassified	chr15:88428731-88431972	1.242
Gm749	0	0	0	5	0.083333	0	0	Unclassified	chr17:28684431-28689563	3.133
Tmhs	0	0	0	38	0.633333	0.154166	0.57498	Unclassified	chr17:28710663-28720538	7.876
Agtr2	0	0	0	2	0.033333	0.017875	1	Unclassified	chrX:21059751-21065957	4.207
Agtr1b	0	0	0	18	0.3	0	0.752569	Unclassified	chr3:20213394-20268099	52.706
Klri2	0	0	0	11	0.183333	0.018067	0.537156	Unclassified	chr6:129679058-129692502	11.445
Gldn	0	0	0	58	0.966667	0.066163	1.504058	Unclassified	chr9:54132292-54189584	55.293
Treh	0	0	0	33	0.55	0	1.953383	Unclassified	chr9:44479320-44494387	13.068
Tssk3	0	0	0	49	0.816667	0.02479	0.385499	Unclassified	chr4:129166251-129170014	1.764
Srgap1	0	0	0	294	4.9	0.105113	0.96301	Unclassified	chr10:121222297-121486249	261.953
Daglb	0	0	0	681	11.35	3.79871	22.10042	Unclassified	chr5:144223360-144265310	39.951
Adamdec1	0	0	0	10	0.166667	0.026568	1.377117	Unclassified	chr14:69181443-69202129	18.687
Cysltr1	0	0	0	6	0.1	0.102382	0	Unclassified	chrX:103771855-103800801	26.947
Ms4a2	0	0	0	6	0.1	0	0.576809	Unclassified	chr19:11691682-11700133	6.452
Fcer1a	0	0	0	2	0.033333	0	0	Unclassified	chr1:175151402-175159360	5.959
Fbp2	0	0	0	37	0.616667	0.08914	0	Unclassified	chr13:62938244-62961730	21.487
Ehd2	0	0	0	708	11.8	60.0939	5.101228	Unclassified	chr4:141414056-141432835	16.78
Hdac1	0	0	0	918	15.3	33.0417	6.109123	Unclassified	chr4:129193347-129221890	26.544
Mospd1	0	0	0	179	2.983333	1.51295	44.31896	Stalled	chrX:50698197-50725669	25.473
Kctd2	0	0	0	377	6.283333	9.2992	20.27262	Unclassified	chr11:115279439-115292587	11.149
Slco6b1	0	0	0	28	0.466667	0.056961	0	Unclassified	chr1:98802752-98896137	91.386
Pla2g3	0	0	0	15	0.25	0.048861	0	Unclassified	chr11:3386229-3394169	5.941
Olfr469	0	0	0	1	0.016667	0.043412	1	Unclassified	chr7:114966036-114968981	0.946
Rpp25	0	0	0	14	0.233333	0.990266	11	Unclassified	chr9:57349908-57353254	1.347
Bbox1	0	0	0	22	0.366667	0.015745	0.653717	Unclassified	chr2:110105239-110147882	40.644
Cmpk1	0	0	0	455	7.583333	20.2429	51.72737	Stalled	chr4:114633217-114661833	26.617
Pdx1	0	0	0	8	0.133333	0.229041	0.401198	Unclassified	chr5:148079706-148086725	5.02
1700102P08Rik	0	0	0	80	1.333333	0.245568	3.547623	Unclassified	chr9:108293164-108300096	4.933
C030039L03Rik	0	0	0	292	4.866667	0.767104	14.83137	Unclassified	chr7:28457679-28491501	31.823
G6pdx	0	0	0	487	8.116667	10.4768	29.68876	Unclassified	chrX:71654824-71676500	19.677
G6pd2	0	0	0	2	0.033333	2.8548	2	Unclassified	chr5:62198081-62201716	1.636
Pdpk1	0	0	0	711	11.85	4.96652	30.86737	Unclassified	chr17:24210646-24280556	67.911
Enpp1	0	0	0	394	6.566667	3.82334	25.46406	Stalled	chr10:24361216-24433908	70.693
Tmem181b	0	0	0	89	1.483333	1.56633	9.690709	Unclassified	chr17:6439625-6478275	36.651
Zfp106	0	0	0	832	13.86667	17.6736	14.72905	Unclassified	chr2:120332565-120391567	57.003
Sh2d1a	0	0	0	9	0.15	0	1.509584	Unclassified	chrX:39853784-39875252	19.469
Defb5	0	0	0	1	0.016667	0	0	Unclassified	chr8:19245591-19250828	3.238
Sh3gl2	0	0	0	124	2.066667	0.031972	1.199803	Unclassified	chr4:84849359-85035283	183.925
Ostf1	0	0	0	722	12.03333	29.5864	20.54368	Unclassified	chr19:18654853-18708303	51.451
Olfr291	0	0	0	2	0.033333	0.026805	0	Unclassified	chr7:92002874-92005828	0.955
Depdc7	0	0	0	69	1.15	0.335116	5.077474	Unclassified	chr2:104561943-104584958	21.016
Prl3a1	0	0	0	7	0.116667	0	0.76385	Unclassified	chr13:27349357-27368529	17.173
Olfr290	0	0	0	0	0	0.040537	0	Unclassified	chr7:92062290-92065237	0.948
Potr3k	0	0	0	325	5.416667	0	44.89509	Stalled	chr2:181597064-181605531	6.468
Olfr888	0	0	0	0	0	0.016352	0	Unclassified	chr9:37914272-37917217	0.946
1600012F09Rik	0	0	0	212	3.533333	3.99562	27.51075	Stalled	chr13:18078474-18087185	6.712
Ttc23	0	0	0	133	2.216667	0.345178	0.76199	Unclassified	chr7:74790295-74871462	79.168
Col28a1	0	0	0	107	1.783333	0.027269	0	Unclassified	chr6:7947807-8144617	194.811
V1rel3	0	0	0	0	0	0	0	Unclassified	chr7:11332850-11336887	2.038
V1rh17	0	0	0	0	0	0.068997	0	Unclassified	chr13:22177746-22180673	0.928
Thsd7b	0	0	0	416	6.933333	0.022553	2.789645	Unclassified	chr1:131167880-132115853	945.974
AY358078	0	0	0	11	0.183333	0.428698	0	Unclassified	chr14:52417720-52446034	26.315
4930506M07Rik	0	0	0	105	1.75	0.19945	2.016985	Unclassified	chr19:59047847-59152559	102.713
Olfr887	0	0	0	0	0	0.041343	0	Unclassified	chr9:37890422-37893352	0.931
Cyct	0	0	0	6	0.1	0.058971	0.524127	Unclassified	chr2:76191999-76200505	6.507
1700010D01Rik	0	0	0	1	0.016667	0.038496	1	Unclassified	chrX:92927928-92930600	0.673
1700012A03Rik	0	0	0	8	0.133333	0	0.521498	Unclassified	chr6:31998287-32008915	8.629
Ccdc46	0	0	0	243	4.05	0.087684	4.535619	Unclassified	chr11:108284579-108721929	435.351
Hspe1	0	0	0	591	9.85	115.748	27.28333	Unclassified	chr1:55142991-55148161	3.171
Phkg2	0	0	0	468	7.8	26.5049	9.448387	Unclassified	chr7:134714861-134726821	9.961
Ankrd36	0	0	0	117	1.95	0.079906	1.543279	Unclassified	chr11:5467686-5589340	119.655
Sppl3	0	0	0	1710	28.5	6.47857	10.26677	Unclassified	chr5:115459532-115548799	87.268
Taar8c	0	0	0	0	0	0.027837	0	Unclassified	chr10:23820649-23823757	1.109
4921511H03Rik	0	0	0	2	0.033333	0	0	Unclassified	chr5:7302163-7311491	7.329
Csf1	0	0	0	880	14.66667	17.6086	4.498371	Unclassified	chr3:107543965-107565387	19.423
Crygs	0	0	0	15	0.25	0.054693	1.857908	Unclassified	chr16:22805276-22813479	6.204
Crym	0	0	0	15	0.25	0	0	Unclassified	chr7:127329897-127347502	15.606
Krt12	0	0	0	9	0.15	0.04839	0	Unclassified	chr11:99276977-99285573	6.597
Krt9	0	0	0	12	0.2	0.043956	0.811911	Unclassified	chr11:100048094-100056560	6.467
Sema5a	0	0	0	352	5.866667	0.032246	8.039744	Unclassified	chr15:32172567-32626096	451.53
Sema4f	0	0	0	101	1.683333	0.37154	0.874669	Unclassified	chr6:82861878-82891744	27.867
4933401F05Rik	0	0	0	13	0.216667	0.050508	0.427153	Unclassified	chr14:64694279-64706226	9.948
4930420K17Rik	0	0	0	1303	21.71667	28.6024	4.597054	Unclassified	chr5:9098736-9118983	18.248
Qrs1	0	0	0	494	8.233333	4.81281	20.98327	Unclassified	chr10:43593995-43623542	27.548
Snx7	0	0	0	62	1.033333	0.116653	2.40468	Unclassified	chr3:117484795-117573712	86.918
Grsf1	0	0	0	370	6.166667	13.3301	10.3236	Unclassified	chr5:89088261-89107196	16.936
D4Ert22e	0	0	0	1329	22.15	46.2243	6.167331	Unclassified	chr4:140668929-140697711	26.783
Usp13	0	0	0	99	1.65	0.0588	1.097036	Unclassified	chr3:32714547-32834179	117.633
Car10	0	0	0	339	5.65	0.057325	0	Unclassified	chr11:92958603-93463063	502.461
Nova2	0	0	0	59	0.983333	0.947455	3.630405	Unclassified	chr7:19508697-19544149	33.453

Zic1	0	0	0	15	0.25	0.202766	0.864907	Unclassified	chr9:91255182-91262637	5.456
Hs3st3a1	0	0	0	55	0.916667	0.062187	1.240171	Unclassified	chr11:64246833-64336337	87.505
Hrsp12	0	0	0	203	3.383333	10.4765	70.9407	Stalled	chr15:34413776-34427001	11.226
Ppp2r1b	0	0	0	925	15.41667	9.26257	9.555459	Unclassified	chr9:50663039-50702334	37.296
Tmem218	0	0	0	102	1.7	2.93952	21.50957	Stalled	chr9:37013917-37030796	14.88
Rtn4r1l	0	0	0	153	2.55	0.360314	1.349041	Unclassified	chr11:75005494-75081264	73.771
Gapvd1	0	0	0	885	14.75	11.4756	2.703998	Elongating	chr2:34532501-34612752	78.252
Gm4931	0	0	0	4	0.066667	0.030177	0.625795	Unclassified	chr12:105550779-105558795	6.017
Pcca	0	0	0	1249	20.81667	6.3949	31.9821	Stalled	chr14:122931549-123289166	355.618
Serpina3f	0	0	0	85	1.416667	0	2.217023	Elongating	chr12:105450842-105459337	6.496
Magi1	0	0	0	466	7.766667	0.214474	2.28054	Unclassified	chr6:93625448-94235898	608.451
Shox2	0	0	0	20	0.333333	1.32005	0.365977	Unclassified	chr3:66777190-66787693	8.504
Ddb2	0	0	0	392	6.533333	7.84921	30.89552	Unclassified	chr2:91052012-91079135	25.124
Cxcl16	0	0	0	78	1.3	1.58504	0.681271	Unclassified	chr11:70267735-70275486	5.752
Olfr1355	0	0	0	3	0.05	0	0.640223	Unclassified	chr10:78336293-78342851	4.559
Fam129a	0	0	0	765	12.75	10.9077	25.81297	Stalled	chr1:153416502-153566476	147.975
Gm8580	0	0	0	2	0.033333	0	1	Unclassified	chr10:93127988-93130599	0.612
2610528J11Rik	0	0	0	8	0.133333	0	0.786408	Unclassified	chr4:118197879-118202822	2.944
Llg12	0	0	0	327	5.45	2.67359	18.78429	Unclassified	chr11:115683371-115717094	31.724
Gm5627	0	0	0	17	0.283333	0.082597	1.601818	Unclassified	chr9:102639977-102659015	17.039
Snw1	0	0	0	613	10.21667	0	8.274756	Unclassified	chr12:88790859-88815249	22.391
1700017N19Rik	0	0	0	16	0.266667	0.015167	0.625066	Unclassified	chr10:100053019-100081025	26.007
Pla2g12a	0	0	0	218	3.633333	17.371	9.425036	Unclassified	chr3:129579539-129598739	17.201
Tmidg1	0	0	0	11	0.183333	0	0	Unclassified	chr11:76716046-76730088	12.043
LOC664987	0	0	0	0	0	0	0	Unclassified	chr2:174887049-174895264	6.216
Defb12	0	0	0	3	0.05	0.05142	1	Unclassified	chr8:19111930-19116833	2.904
Cnpy4	0	0	0	219	3.65	13.4404	21.7753	Stalled	chr5:138626762-138635122	6.361
Dytn	0	0	0	50	0.833333	0.026404	0	Unclassified	chr1:63669424-63735501	64.078
Gpr1	0	0	0	54	0.9	0.063962	1.181044	Unclassified	chr1:63229267-63262783	31.517
Olfr1206	0	0	0	0	0	0.03748	0	Unclassified	chr2:88702763-88705687	0.925
Tppp3	0	0	0	22	0.366667	0.338261	1.103886	Unclassified	chr8:107991392-107997322	3.931
Tmem233	0	0	0	43	0.716667	0.036723	0.49828	Unclassified	chr5:116490544-116535255	42.712
Olfr1201	0	0	0	0	0	0.05135	0	Unclassified	chr2:88632540-88635464	0.925
Zcchc3	0	0	0	252	4.2	5.7129	10.36603	Unclassified	chr2:152237691-152242780	3.09
Cryga	0	0	0	4	0.066667	0	1	Unclassified	chr1:65146962-65151937	2.976
Zfp169	0	0	0	414	6.9	1.47288	14.76475	Unclassified	chr13:48583030-48610805	25.776
1600012H06Rik	0	0	0	330	5.5	8.85068	13.03389	Unclassified	chr17:15078188-15082944	2.757
Aurkb	0	0	0	419	6.983333	42.4473	7.850524	Unclassified	chr11:68857144-68865164	6.021
Olfr1216	0	0	0	0	0	0	0	Unclassified	chr2:88853283-88856219	0.937
Magi3	0	0	0	553	9.216667	1.36596	40.0366	Stalled	chr3:103817196-104026329	207.134
Ptk6	0	0	0	20	0.333333	0.100916	0.563401	Unclassified	chr2:180929828-180939494	7.667
2810432L12Rik	0	0	0	9	0.15	0.158969	2.019928	Unclassified	chr4:49597377-49612742	13.366
Hpca	0	0	0	27	0.45	0.160231	0.854945	Unclassified	chr4:128788818-128800984	10.167
Glt1d1	0	0	0	114	1.9	0.18908	4.769707	Unclassified	chr5:128110631-128187890	75.26
3110047P20Rik	0	0	0	138	2.3	0.072086	0	Unclassified	chr5:64038341-64201780	161.44
9630033F20Rik	0	0	0	428	7.133333	4.29338	28.79558	Unclassified	chr6:127035139-127061554	24.416
C730048C13Rik	0	0	0	18	0.3	0.074646	0	Unclassified	chr19:8410112-8481595	69.484
Nwd1	0	0	0	116	1.933333	0.03349	0.372334	Unclassified	chr8:75168612-75238643	68.032
Wdr26	0	0	0	1718	28.63333	31.2758	9.976931	Unclassified	chr1:183103358-183144109	38.752
Dupd1	0	0	0	76	1.266667	0.034859	0.333369	Unclassified	chr14:22495793-22535798	38.006
Emr1	0	0	0	74	1.233333	0.537031	0.6422	Unclassified	chr17:57496108-57622952	124.845
Rfwd2	0	0	0	875	14.58333	2.88655	54.72234	Stalled	chr1:161160456-161277711	115.256
Cicn7	0	0	0	380	6.333333	5.6519	9.337143	Unclassified	chr17:25268338-25299044	28.707
Cetn2	0	0	0	115	1.916667	12.2697	34.01883	Stalled	chrX:70158903-70165683	4.781
Olfr1331	0	0	0	1	0.016667	0.026897	1	Unclassified	chr4:118539387-118542340	0.954
Olfr169	0	0	0	0	0	0.008395	0	Unclassified	chr16:19566032-19568974	0.943
Olfr605	0	0	0	2	0.033333	0	0	Unclassified	chr7:110590654-110593664	1.011
Olfr1425	0	0	0	0	0	0.095654	0	Unclassified	chr19:12148184-12151120	0.937
Olfr1029	0	0	0	0	0	0.015817	0	Unclassified	chr2:85813369-85816429	1.061
Olfr412	0	0	0	2	0.033333	0.040947	1	Unclassified	chr11:74176172-74179111	0.94
Olfr1505	0	0	0	0	0	0.016217	0	Unclassified	chr19:13991511-13994462	0.952
Olfr792	0	0	0	0	0	0.020523	0	Unclassified	chr10:128975594-128978530	0.937
Cd1631l	0	0	0	18	0.3	0.022263	0.426112	Unclassified	chr7:147402165-147417044	12.88
Colec10	0	0	0	21	0.35	0.008382	0.752018	Unclassified	chr15:54240328-54297913	55.586
Cyth3	0	0	0	385	6.416667	1.8159	15.82979	Stalled	chr5:144381315-144471114	87.8
Cyth2	0	0	0	381	6.35	8.60475	6.055964	Unclassified	chr7:53062006-53071686	7.681
Npepps	0	0	0	429	7.15	10.2354	18.20642	Stalled	chr11:97067170-97143890	74.721
Zfp120	0	0	0	238	3.966667	1.39344	18.10827	Stalled	chr2:149940142-149964414	22.273
Prtn3	0	0	0	20	0.333333	0.396381	0.4296	Unclassified	chr10:79340411-79345917	3.507
Dixdc1	0	0	0	107	1.783333	0.174921	1.564406	Unclassified	chr9:50470859-50538089	65.231
Gm11937	0	0	0	0	0	0	0	Unclassified	chr11:99471107-99473503	0.397
D430041D05Rik	0	0	0	317	5.283333	0.058245	0	Unclassified	chr2:103983231-104252491	267.261
Cst1l	0	0	0	9	0.15	0.042021	0.364734	Unclassified	chr2:148574096-148581114	5.019
Rrres2	0	0	0	16	0.266667	0.039026	0.15215	Unclassified	chr6:48519696-48524669	2.974
Usp9y	0	0	0	22	0.366667	0.009497	0.883864	Unclassified	chrY:635403-798225	160.823
Cth	0	0	0	216	3.6	4.53239	36.71741	Stalled	chr3:157557211-157590027	30.817
Krt7	0	0	0	36	0.6	0.016172	2.03811	Unclassified	chr15:101240833-101258236	15.404
4930444G20Rik	0	0	0	0	0	0.008715	0	Unclassified	chr10:21786112-21789885	1.774
Scaper	0	0	0	672	11.2	0.935683	85.52843	Stalled	chr9:55397689-55787922	388.234
Kcnh6	0	0	0	189	3.15	0.608567	0.975675	Unclassified	chr11:105867516-105895378	25.863
Selm	0	0	0	26	0.433333	10.6403	3.43521	Unclassified	chr11:3412704-3417354	2.651
Rya3	0	0	0	28	0.466667	0.077419	0	Unclassified	chr2:153741965-153758732	14.768
Olfr344	0	0	0	0	0	0.006874	0	Unclassified	chr2:36422119-36425049	0.931
Arl8a	0	0	0	359	5.983333	16.0961	11.25379	Unclassified	chr1:137041410-137052845	9.436
Gm13119	0	0	0	0	0	0.014915	0	Unclassified	chr4:143945866-143954322	6.457
Npffr2	0	0	0	32	0.533333	0.046803	1.296707	Unclassified	chr5:89954453-90012765	56.313

Clec5a	0	0	0	11	0.183333	0.054756	0	Unclassified	chr6:40524896-40537804	10.909
Cdc42ep1	0	0	0	27	0.45	0.040335	0.232172	Unclassified	chr15:78671076-78681332	8.257
Rexo2	0	0	0	366	6.1	61.1176	12.75596	Unclassified	chr9:48276618-48290716	12.099
Azgp1	0	0	0	11	0.183333	0.039015	0.461497	Unclassified	chr5:138420748-138431460	8.713
Pfh13	0	0	0	143	2.383333	2.81461	9.557979	Unclassified	chr4:151363739-151372288	6.55
Lce1b	0	0	0	1	0.016667	0.019762	0	Unclassified	chr3:92459571-92462848	1.278
Oifr350	0	0	0	2	0.033333	0	1	Unclassified	chr2:36703567-36706506	0.94
Eri3	0	0	0	953	15.88333	12.9925	11.47456	Unclassified	chr4:117221098-117346886	123.789
Chst8	0	0	0	184	3.066667	0.106788	0.85981	Unclassified	chr7:35459486-35599730	138.245
Cyp39a1	0	0	0	100	1.666667	1.49424	4.318136	Unclassified	chr17:43802373-43888380	84.008
Gm5887	0	0	0	39	0.65	0.194014	0.233586	Unclassified	chr6:147023583-147037554	11.972
Pigs	0	0	0	307	5.116667	16.5314	15.093	Unclassified	chr11:78139923-78156278	14.356
Aurkc	0	0	0	0	0	0.079646	0	Unclassified	chr7:6946095-6955802	7.708
Zfp760	0	0	0	103	1.716667	1.6211	10.87836	Stalled	chr17:21842707-21862603	17.897
Tbc1d19	0	0	0	229	3.816667	2.65047	10.38998	Stalled	chr5:54198865-54295619	94.755
Dmgdh	0	0	0	83	1.383333	0.047325	2.005039	Unclassified	chr13:94442390-94522778	78.389
2310057J18Rik	0	0	0	7	0.116667	0	0	Unclassified	chr10:28692093-28708112	14.02
Rnf34	0	0	0	810	13.5	14.6296	18.74453	Unclassified	chr5:123298196-123318954	18.759
Krt80	0	0	0	40	0.666667	0.093718	1.056016	Unclassified	chr15:101180001-101202556	20.556
Slc39a12	0	0	0	58	0.966667	0.038315	1.972481	Unclassified	chr2:14308024-14416604	106.581
Mettl13	0	0	0	388	6.466667	7.34425	17.60405	Unclassified	chr1:164463802-164480476	14.675
Ubxn10	0	0	0	20	0.333333	0.026299	1.938399	Unclassified	chr4:138274440-138283166	6.727
Tas2r115	0	0	0	1	0.016667	0.04121	1	Unclassified	chr6:132687071-132690004	0.934
Scel	0	0	0	74	1.233333	0.083842	1.157929	Unclassified	chr14:103910557-104012563	100.007
Cd8a	0	0	0	11	0.183333	0.200458	0.612703	Unclassified	chr6:71321420-71329165	5.746
Maml2	0	0	0	418	6.966667	0.574462	0.706184	Unclassified	chr9:13422432-13513977	89.546
Enah	0	0	0	133	2.216667	1.45475	0.468383	Unclassified	chr1:183834575-183952111	115.537
Gprc5b	0	0	0	40	0.666667	0	2.599703	Unclassified	chr7:126115554-126140725	23.172
Ptges	0	0	0	41	0.683333	0.639556	1.072783	Unclassified	chr2:30744991-30760817	13.827
Stk32b	0	0	0	222	3.7	0.049214	2.224347	Unclassified	chr5:37838064-38110392	270.329
Foxb1	0	0	0	14	0.233333	0.261996	0.794872	Unclassified	chr9:69605516-69610747	3.232
Osbpl1a	0	0	0	309	5.15	0.390116	15.4015	Stalled	chr18:12914536-13102229	185.694
Polr2g	0	0	0	210	3.5	31.3842	9.900978	Unclassified	chr19:8867618-8875047	5.43
Myliip	0	0	0	700	11.66667	7.62907	13.88825	Unclassified	chr13:45483110-45507309	22.2
Vwa5b2	0	0	0	137	2.283333	0.301231	0.308706	Unclassified	chr16:20587654-20605450	15.797
Hbegf	0	0	0	90	1.5	0.879305	6.20856	Unclassified	chr18:36664580-36677459	10.88
Lcn2	0	0	0	11	0.183333	1.89315	0.462214	Unclassified	chr2:32240156-32245259	3.104
Csn1s1	0	0	0	7	0.116667	0.019567	0	Unclassified	chr5:88093248-88111599	16.352
Dcdc2a	0	0	0	159	2.65	0.111722	1.002295	Unclassified	chr13:25145872-25302575	154.704
Csn2	0	0	0	4	0.066667	0.022886	0.659052	Unclassified	chr5:88121648-88130446	6.799
Hemt1	0	0	0	7	0.116667	0.11161	2.370008	Unclassified	chr15:74647505-74654866	5.362
Lbx2	0	0	0	19	0.316667	0.643169	1.344335	Unclassified	chr6:83034358-83038235	1.878
Lbx1	0	0	0	5	0.083333	0.178005	0.406375	Unclassified	chr19:45308217-45311726	1.51
Lcat	0	0	0	42	0.7	0.444224	2.365881	Unclassified	chr8:108463456-108469302	3.847
BC014805	0	0	0	10	0.166667	0.025566	0	Unclassified	chr19:7856472-7879157	20.686
Stk17b	0	0	0	1226	20.43333	22.4278	11.46607	Unclassified	chr1:53812355-53844059	29.705
Bicd1	0	0	0	169	2.816667	0	36.51111	Stalled	chr6:149355407-149507379	149.973
Hrk	0	0	0	39	0.65	0.112256	0.710069	Unclassified	chr5:118617772-118639487	19.716
Bik	0	0	0	115	1.916667	0.869825	2.750626	Unclassified	chr15:83355291-83375065	17.775
Nap1l1	0	0	0	1021	17.01667	91.6341	5.645344	Unclassified	chr10:110908247-110935200	24.954
Hpcal1	0	0	0	308	5.133333	3.00084	8.679291	Unclassified	chr12:17695619-17798732	101.114
Pcdh12	0	0	0	25	0.416667	0.073407	0.979316	Unclassified	chr18:38426745-38446055	17.311
Psmd1	0	0	0	1046	17.43333	32.7587	16.179	Unclassified	chr1:87959193-88035870	74.678
Gpr137c	0	0	0	382	6.366667	2.43788	103.3571	Stalled	chr14:45837391-45900651	61.261
Adam10	0	0	0	785	13.08333	11.41	61.98226	Stalled	chr9:70524807-70628036	101.223
Krtcap3	0	0	0	107	1.783333	3.20329	2.91299	Unclassified	chr5:31552078-31555570	1.493
AW146154	0	0	0	157	2.616667	5.48953	36.80699	Stalled	chr7:48734243-48757280	21.018
C230052I12Rik	0	0	0	333	5.55	16.1653	4.358255	Unclassified	chr7:36177170-36183786	4.617
Gm16432	0	0	0	39	0.65	0.007925	2.514484	Unclassified	chr1:179919565-179978422	56.858
Slc7a14	0	0	0	146	2.433333	0.063792	0	Unclassified	chr3:31101777-31211241	107.465
Slc9a7	0	0	0	1018	16.96667	13.2924	17.61177	Unclassified	chrX:19682880-19870890	186.011
Pmp22	0	0	0	41	0.683333	0.120976	0	Unclassified	chr11:62943011-62973048	28.038
Pmp2	0	0	0	8	0.133333	0.061064	0.671979	Unclassified	chr3:10179850-10185885	4.036
Oifr1501	0	0	0	1	0.016667	0.054013	1	Unclassified	chr19:13912713-13915661	0.949
Obox3	0	0	0	1	0.016667	0.003289	1	Unclassified	chr7:16210654-16227126	14.473
Stxbp3b	0	0	0	0	0	2.11718	0	Unclassified	chr19:9632095-9635738	1.644
Pla2g2f	0	0	0	12	0.2	0.026295	1.293879	Unclassified	chr4:138306447-138315513	7.067
Pla2g2e	0	0	0	16	0.266667	0.030121	0.520909	Unclassified	chr4:138431856-138438729	4.874
Slc26a5	0	0	0	59	0.983333	0.017308	1.999092	Unclassified	chr5:21316472-21373422	54.951
Mrgprh	0	0	0	6	0.1	0.021254	0.864769	Unclassified	chr17:13066899-13070708	1.81
Fundc2	0	0	0	179	2.983333	4.76903	38.71383	Stalled	chrX:72625737-72642496	14.76
Bmi1	0	0	0	245	4.083333	5.23154	26.19962	Stalled	chr2:18596644-18608256	9.613
Syt13	0	0	0	79	1.316667	0.109242	1.784336	Unclassified	chr2:92753257-92796208	40.952
Vstm2b	0	0	0	32	0.533333	0.061659	0.99484	Unclassified	chr7:48152647-48185338	30.692
Atp6v1c2	0	0	0	362	6.033333	0.196293	0.796121	Unclassified	chr12:17291526-17333536	40.011
Tmem53	0	0	0	64	1.066667	2.55408	3.432799	Unclassified	chr4:116922593-116941185	16.593
Taf11	0	0	0	186	3.1	22.9089	10.48574	Unclassified	chr17:28038072-28046669	6.598
Lrrc3b	0	0	0	74	1.233333	0.04638	2.153476	Unclassified	chr14:16190032-16273501	81.47
Rsad2	0	0	0	98	1.633333	1.05975	11.65509	Stalled	chr12:27127607-27143317	13.711
Rad18	0	0	0	861	14.35	4.73024	24.51083	Unclassified	chr6:112569844-112648664	76.821
Sdccag3	0	0	0	494	8.233333	15.0141	14.82888	Unclassified	chr2:26238319-26246836	6.518
Svep1	0	0	0	154	2.566667	0.039207	1.040927	Unclassified	chr4:58055667-58221468	163.802
Lzts1	0	0	0	16	0.266667	0.156731	0	Unclassified	chr8:71659402-71666852	5.451
Eps82	0	0	0	77	1.283333	0.365455	5.11353	Unclassified	chr7:148522900-148548915	24.016
Fam189a2	0	0	0	47	0.783333	0.138318	1.131044	Unclassified	chr19:24047239-24107509	58.271
Mfsd2b	0	0	0	63	1.05	0.268568	6.107495	Unclassified	chr12:4869243-4883165	11.923

4430402I18Rik	0	0	0	189	3.15	0.364111	69.07926	Stalled	chr19:28997553-29040644	41.092
6430598A04Rik	0	0	0	23	0.383333	0.523489	0.308676	Unclassified	chr5:138172190-138183226	9.037
Gp1bb	0	0	0	15	0.25	1.70724	1.494691	Unclassified	chr16:18620411-18624496	2.086
Cacng4	0	0	0	81	1.35	0.143272	0.423157	Unclassified	chr11:107596093-107657778	59.686
Lpin1	0	0	0	928	15.46667	3.03596	5.72373	Unclassified	chr12:16542474-16598576	54.103
Cdc42bpb	0	0	0	443	7.383333	4.03376	17.06957	Stalled	chr12:112531183-112617929	84.747
Zfp509	0	0	0	543	9.05	2.77782	25.41762	Unclassified	chr5:38591282-38613667	20.386
Klk14	0	0	0	11	0.183333	0.034041	0.679494	Unclassified	chr7:50943788-50950389	4.602
Eif5	0	0	0	1104	18.4	35.3306	13.83278	Unclassified	chr12:112774311-112784964	8.654
Cenpf	0	0	0	480	8	4.90253	19.69053	Unclassified	chr1:191464492-191513965	47.474
Kcne2	0	0	0	10	0.166667	0.030335	0.403849	Unclassified	chr16:92290633-92298374	5.742
1700039E15Rik	0	0	0	18	0.3	0.066598	1.450786	Unclassified	chr7:52536242-52544363	6.122
Syf2	0	0	0	381	6.35	33.8546	16.27599	Unclassified	chr4:134484894-134493452	6.559
Col27a1	0	0	0	257	4.283333	0.238303	1.995289	Unclassified	chr4:62874445-62996024	119.58
Cdk17	0	0	0	1181	19.68333	4.88775	16.19524	Unclassified	chr10:92621620-92704087	80.468
Greb1	0	0	0	174	2.9	0.077732	0.429089	Unclassified	chr12:16677420-16809692	130.273
Olfr410	0	0	0	0	0	0.060821	0	Unclassified	chr11:74147783-74150731	0.949
Kcnh5	0	0	0	149	2.483333	0.056807	0	Unclassified	chr12:75998203-76280319	280.117
Olfr1451	0	0	0	1	0.016667	0	1	Unclassified	chr19:13071477-13074410	0.934
Olfr401	0	0	0	2	0.033333	0	1	Unclassified	chr11:73932792-73935740	0.949
Olfr43	0	0	0	1	0.016667	0.030659	0	Unclassified	chr11:74019699-74022791	1.093
Olfr411	0	0	0	3	0.05	0.027473	2	Unclassified	chr11:74160151-74163084	0.934
Olfr398	0	0	0	2	0.033333	0	2	Unclassified	chr11:73797163-73800108	0.946
Olfr1342	0	0	0	0	0	0	0	Unclassified	chr4:118362107-118365055	0.949
Olfr415	0	0	0	0	0	0.038008	0	Unclassified	chr1:176319176-176322186	1.011
Hsf5	0	0	0	368	6.133333	0.046235	1.812031	Unclassified	chr11:87428665-87473044	42.38
Mettl5	0	0	0	457	7.616667	11.243	18.84719	Unclassified	chr2:69709251-69725661	14.411
Efhd1	0	0	0	75	1.25	0.15621	2.42441	Unclassified	chr1:89158938-89207366	46.429
Slc26a7	0	0	0	64	1.066667	0.048649	0	Unclassified	chr4:14432343-14550925	116.583
Npas2	0	0	0	206	3.433333	0.116512	2.29486	Unclassified	chr1:39249116-39420085	168.97
Npas1	0	0	0	132	2.2	0.490407	0.134577	Unclassified	chr7:17041070-17064129	21.06
Ccr3	0	0	0	8	0.133333	0.066568	0.554707	Unclassified	chr9:123934702-123946421	9.72
Lcn14	0	0	0	7	0.116667	0.052526	0.258344	Unclassified	chr2:25590528-25595617	3.09
Ushbp1	0	0	0	42	0.7	0.05778	1.034656	Unclassified	chr8:73908172-73921700	11.529
2810055F11Rik	0	0	0	174	2.9	1.78881	19.67069	Stalled	chr12:73174414-73188300	11.887
Mboat2	0	0	0	126	2.1	0.568772	1.043735	Unclassified	chr12:25514463-25645164	128.702
Lcn10	0	0	0	6	0.1	0.069528	0	Unclassified	chr2:25536245-25541601	3.357
Samsn1	0	0	0	2520	42	48.9737	3.455827	Unclassified	chr16:75859038-75911511	50.474
Cmtm6	0	0	0	558	9.3	21.6099	12.58721	Unclassified	chr9:114638320-114658461	18.142
Armc10	0	0	0	299	4.983333	9.06217	17.14215	Unclassified	chr5:21149801-21168410	16.61
Gatad1	0	0	0	212	3.533333	8.77188	9.088756	Unclassified	chr5:3639960-3649936	7.977
4930583H14Rik	0	0	0	22	0.366667	5.41647	2.362922	Unclassified	chr3:51192336-51202469	8.134
Ecsr	0	0	0	17	0.283333	0.103823	0.763142	Unclassified	chr18:35872742-35883145	8.404
Med18	0	0	0	341	5.683333	7.07624	7.916511	Unclassified	chr4:132014643-132021836	5.194
Olfr103	0	0	0	0	0	0.009585	0	Unclassified	chr17:37473233-37476175	0.943
Olfr101	0	0	0	5	0.083333	0.062166	3	Unclassified	chr17:37436438-37439365	0.928
Olfr109	0	0	0	2	0.033333	0.081374	2	Unclassified	chr17:37601152-37604097	0.946
Trim66	0	0	0	74	1.233333	0.087459	0	Unclassified	chr7:116592514-116653648	59.135
Olfr272	0	0	0	2	0.033333	0	0	Unclassified	chr4:52923704-52926664	0.961
Pop4	0	0	0	241	4.016667	19.3063	11.39099	Unclassified	chr7:39047838-39058367	8.53
Olfr617	0	0	0	1	0.016667	0.026753	0	Unclassified	chr7:110730537-110733494	0.958
Grina	0	0	0	146	2.433333	18.9986	16.82092	Stalled	chr15:76075236-76080334	3.099
Nudt16	0	0	0	361	6.016667	10.8117	6.595419	Unclassified	chr9:105031667-105036135	2.469
Rprl2	0	0	0	0	0	0.049587	0	Unclassified	chr3:22147862-22150561	0.7
Pbx1	0	0	0	347	5.783333	0.795949	6.781443	Unclassified	chr1:170049494-170364389	312.896
Snappc2	0	0	0	211	3.516667	9.32189	6.256027	Unclassified	chr8:4251101-4256220	3.12
Rprl3	0	0	0	0	0	0.327705	0	Unclassified	chr8:3803097-3805689	0.593
Gm1587	0	0	0	6	0.1	0.066259	1.003115	Unclassified	chr14:78193751-78200775	5.025
H2-T23	0	0	0	304	5.066667	129.53	2.285967	Elongating	chr17:36166921-36171646	2.726
Olfm4	0	0	0	22	0.366667	0.054704	0.520565	Unclassified	chr14:80398108-80421737	21.63
Chic1	0	0	0	38	0.633333	1.27344	8.50344	Unclassified	chrX:100549894-100585381	33.488
Lmo7	0	0	0	2628	43.8	10.2158	10.2277	Unclassified	chr14:102127144-102333910	204.767
Serpnb6c	0	0	0	11	0.183333	0.503267	0	Unclassified	chr13:33971684-33999577	25.894
Kif5b	0	0	0	1064	17.73333	19.1752	18.5746	Unclassified	chr18:6201002-6243522	40.521
Lce1a2	0	0	0	1	0.016667	0.017882	0	Unclassified	chr3:92472534-92476237	1.704
Cst6	0	0	0	12	0.2	0.283815	0.983611	Unclassified	chr19:5344704-5351574	4.871
1110017D15Rik	0	0	0	26	0.433333	1.11938	0.361553	Unclassified	chr4:41452041-41466366	12.326
Efhc2	0	0	0	41	0.683333	0.070392	0	Unclassified	chrX:16709179-16898494	187.316
Olfr1232	0	0	0	1	0.016667	0.027385	0	Unclassified	chr2:89165399-89168335	0.937
Olfr835	0	0	0	0	0	0	0	Unclassified	chr9:18837568-18840504	0.937
Wbp2nl	0	0	0	20	0.333333	0.087517	3.419456	Unclassified	chr15:82127413-82144988	15.576
Spata17	0	0	0	290	4.833333	4.82095	76.36842	Stalled	chr1:188872285-189041325	167.041
4933426M11Rik	0	0	0	782	13.03333	4.57924	22.82514	Unclassified	chr12:81889545-81981820	90.276
Ngef	0	0	0	164	2.733333	0.168829	0.370761	Unclassified	chr1:89373403-89472445	97.043
1190003J15Rik	0	0	0	6	0.1	0.037974	0.269273	Unclassified	chr7:148019394-148023867	2.474
Pfn4	0	0	0	108	1.8	1.05985	37.92295	Stalled	chr12:4774100-4785072	8.973
Rasgef1b	0	0	0	165	2.75	0.929097	11.38371	Stalled	chr5:99646438-99683946	35.509
CK137956	0	0	0	38	0.633333	0.011614	1.640759	Unclassified	chr4:127604837-127650085	43.249
Cox4nb	0	0	0	715	11.91667	11.731	21.58365	Unclassified	chr8:123177813-123194012	14.2
P2rx2	0	0	0	95	1.583333	0.569528	0.255992	Unclassified	chr5:110768830-110774054	3.225
Chfr	0	0	0	471	7.85	14.9504	18.32316	Unclassified	chr5:110562858-110600991	36.134
Ubac1	0	0	0	286	4.766667	6.42509	16.11692	Unclassified	chr2:25852477-25879280	24.804
Galnt9	0	0	0	107	1.783333	0.066291	1.267042	Unclassified	chr5:110971363-111050401	77.039
Olfr1283	0	0	0	0	0	0	0	Unclassified	chr2:111206790-111209708	0.919
Abca17	0	0	0	158	2.633333	0.19796	0.691845	Unclassified	chr17:24401223-24486197	82.975
2900092C05Rik	0	0	0	13	0.216667	0	0	Unclassified	chr7:13095899-13141668	43.77

Fmo3	0	0	0	14	0.233333	0.019114	0	Unclassified	chr1:164883930-164916622	30.693
Sgip1	0	0	0	200	3.333333	0.024169	0.517022	Unclassified	chr4:102430967-102643782	210.816
Hiat1	0	0	0	849	14.15	10.7386	17.11293	Unclassified	chr3:116334086-116367595	31.51
Olfr1406	0	0	0	0	0	0.042184	0	Unclassified	chr1:175113572-175116635	1.064
Ctps2	0	0	0	436	7.266667	3.39495	13.0023	Stalled	chrX:159337526-159472469	132.944
Rad5113	0	0	0	314	5.233333	3.6393	11.61701	Unclassified	chr11:82686566-82706117	17.552
Krt10	0	0	0	160	2.666667	2.14279	0.23262	Unclassified	chr11:99246568-99252678	4.111
Krt16	0	0	0	3	0.05	0.098218	1.288762	Unclassified	chr11:100107405-100112216	2.812
Krt15	0	0	0	7	0.116667	0.037257	0	Unclassified	chr11:99993072-99999263	4.192
Barhl2	0	0	0	21	0.35	0.289146	1.116251	Unclassified	chr5:106881541-106889185	5.645
Rcor2	0	0	0	167	2.783333	2.15055	0.35291	Unclassified	chr19:7342253-7349715	5.463
Krt18	0	0	0	10	0.166667	0.333875	4.426023	Unclassified	chr15:101856646-101862457	3.812
Krt19	0	0	0	10	0.166667	0.028004	0.902185	Unclassified	chr11:100002125-100009233	5.109
Cyp2u1	0	0	0	66	1.1	2.75139	12.48094	Stalled	chr3:130993408-131008145	12.738
Rhox9	0	0	0	2	0.033333	0	0	Unclassified	chrX:35252273-35256947	2.675
Apom	0	0	0	100	1.666667	0.125475	1.014586	Elongating	chr17:35265941-35270697	2.757
Sic18a2	0	0	0	319	5.316667	0.192093	0.911276	Unclassified	chr19:59333367-59370502	35.136
Shank3	0	0	0	78	1.3	0.053941	0.904135	Unclassified	chr15:89328287-89390689	60.403
Ckmt1	0	0	0	9	0.15	0.265943	1.217469	Unclassified	chr2:121182376-121189473	5.098
Itga1	0	0	0	449	7.483333	0.415641	0.973853	Unclassified	chr13:115748288-115894172	143.885
Gyt3a2	0	0	0	11	0.183333	0.023345	0.774134	Unclassified	chr15:9263352-9300625	35.274
Gstm2	0	0	0	7	0.116667	0.135506	1.448811	Unclassified	chr3:107784619-107791354	4.736
Abcd4	0	0	0	283	4.716667	2.45528	17.0532	Unclassified	chr12:85943481-85960416	14.936
Gpr110	0	0	0	35	0.583333	0.040144	0	Unclassified	chr17:43405295-43461354	54.06
Ddx10	0	0	0	816	13.6	10.3495	45.38229	Stalled	chr9:52906558-53058217	149.666
Usp45	0	0	0	421	7.016667	1.42924	29.86135	Stalled	chr4:21701416-21765019	61.604
Actr8	0	0	0	362	6.033333	11.4191	13.0728	Unclassified	chr14:30789522-30806407	14.886
Ccin	0	0	0	17	0.283333	0.031567	0.767303	Unclassified	chr4:43994375-43998405	2.031
Rprl1	0	0	0	1	0.016667	0.037447	0	Unclassified	chr6:69276676-69279511	0.836
Pxmp3	0	0	0	326	5.433333	6.27206	39.1521	Stalled	chr3:5560187-5578150	15.964
Tspan12	0	0	0	52	0.866667	0.241915	1.241028	Unclassified	chr6:21721394-21804515	81.122
Cdk13	0	0	0	1347	22.45	9.78485	51.36884	Unclassified	chr13:17807795-17898931	89.137
Olfr583	0	0	0	0	0	0.040019	0	Unclassified	chr7:110197813-110200773	0.961
Papd4	0	0	0	764	12.73333	7.68823	29.60187	Unclassified	chr13:93917354-93964238	44.885
Itgb1bp3	0	0	0	20	0.333333	0.167169	0.321115	Unclassified	chr10:80660914-80666782	3.869
Klik1	0	0	0	5	0.083333	0.033492	0	Unclassified	chr7:51029672-51034632	2.961
Gytl1b	0	0	0	79	1.316667	0.449845	0.478648	Unclassified	chr2:92205203-92213193	5.991
9030624J02Rik	0	0	0	930	15.5	7.32738	5.792991	Unclassified	chr7:125881784-125985004	101.1221
Kcna1	0	0	0	18	0.3	0.149984	1.230088	Unclassified	chr6:126586480-126597819	9.34
Kap	0	0	0	4	0.066667	0	0	Unclassified	chr6:133799872-133805685	3.814
Jup	0	0	0	93	1.55	0.248705	16.16051	Stalled	chr11:100231932-100261053	27.122
Guf1	0	0	0	344	5.733333	3.39175	30.37912	Stalled	chr5:69946180-69964869	16.69
Zfp42	0	0	0	11	0.183333	0.017765	0.522536	Unclassified	chr8:44380420-44394363	11.944
Ddx52	0	0	0	402	6.7	9.16314	10.25118	Unclassified	chr11:83753591-83776579	20.989
Akr1c14	0	0	0	18	0.3	0.015726	1.33085	Unclassified	chr13:4056836-4089668	30.833
Zfp41	0	0	0	150	2.5	2.31725	17.97753	Stalled	chr15:75445114-75455725	8.612
Fam181b	0	0	0	4	0.066667	0.29207	1	Unclassified	chr7:100226388-100230231	1.844
Il1r2	0	0	0	575	9.583333	14.4066	5.448267	Unclassified	chr1:40139612-40182070	40.459
Zfp51	0	0	0	285	4.75	1.16531	37.68369	Stalled	chr17:21585315-21602553	15.239
2610301F02Rik	0	0	0	111	1.85	1.01294	2.152521	Unclassified	chr2:76883027-77010693	125.667
Apex2	0	0	0	252	4.2	5.94167	21.79964	Stalled	chrX:147006049-147024692	16.644
Olfr1386	0	0	0	2	0.033333	0.112202	1	Unclassified	chr11:49281654-49284584	0.931
Olfr132	0	0	0	0	0	0	0	Unclassified	chr17:38267193-38270135	0.943
Skint4	0	0	0	27	0.45	0.022445	0	Unclassified	chr4:111752074-111840681	86.608
Olfr744	0	0	0	2	0.033333	0.029083	1	Unclassified	chr14:51235898-51238870	0.973
Olfr885	0	0	0	3	0.05	0	2	Unclassified	chr9:37866906-37869836	0.931
Olfr225	0	0	0	1	0.016667	0.071202	0	Unclassified	chr11:59424467-59427727	1.261
Olfr1200	0	0	0	0	0	0.021577	0	Unclassified	chr2:88607459-88610470	1.012
Olfr1066	0	0	0	1	0.016667	0	1	Unclassified	chr2:86295484-86298426	0.943
Gm10436	0	0	0	0	0	0.022664	0	Unclassified	chr12:89414032-89422338	6.307
Olfr1344	0	0	0	4	0.066667	0.05307	2	Unclassified	chr7:6390612-6393578	0.967
Olfr1357	0	0	0	2	0.033333	0.068027	2	Unclassified	chr10:78074442-78077384	0.943
Acan	0	0	0	70	1.166667	0.041821	1.930233	Unclassified	chr7:86196368-86259985	61.618
Ager	0	0	0	126	2.1	2.63759	0.953307	Unclassified	chr17:34732806-34737877	3.072
Gm436	0	0	0	10	0.166667	0	0	Unclassified	chr4:144259839-144278271	16.433
Aga	0	0	0	169	2.816667	7.80492	22.08823	Stalled	chr8:54595079-54608776	11.698
Nppa	0	0	0	57	0.95	0.26282	0.750944	Unclassified	chr4:147372854-147376176	1.323
Alg9	0	0	0	616	10.26667	4.12676	14.03104	Unclassified	chr9:50581434-50651633	68.2
Khdrbs2	0	0	0	203	3.383333	0.056584	2.125831	Unclassified	chr1:32227650-32714583	484.934
Rhox2a	0	0	0	0	0	0.029795	0	Unclassified	chrX:34782986-34789685	4.7
Mep1a	0	0	0	24	0.4	0.021923	0	Unclassified	chr17:43611277-43641722	28.446
Meox2	0	0	0	26	0.433333	0.049126	0.744637	Unclassified	chr12:37833132-37906115	70.984
Fam184b	0	0	0	151	2.516667	0.410321	1.275983	Unclassified	chr5:45920943-46032740	109.798
Mrc2	0	0	0	126	2.1	0.057443	5.015632	Unclassified	chr11:105151959-105212459	58.501
Meis3	0	0	0	104	1.733333	3.64249	9.754839	Unclassified	chr7:16758728-16771852	11.125
Mep1b	0	0	0	23	0.383333	0	0.549706	Unclassified	chr18:21228844-21258700	27.857
Ankrd7	0	0	0	6	0.1	0.043225	0.803485	Unclassified	chr6:18814317-18829582	13.266
Mrc1	0	0	0	119	1.983333	0.539872	0.938184	Unclassified	chr2:14149040-14253649	102.61
Tacstd2	0	0	0	62	1.033333	4.29996	0.339794	Unclassified	chr6:67484052-67487816	1.765
Dok2	0	0	0	69	1.15	7.07498	1.035852	Unclassified	chr14:71172187-71178301	4.115
Dok1	0	0	0	260	4.333333	26.6802	2.861193	Elongating	chr6:82980929-82985465	2.537
Cdk2ap1	0	0	0	707	11.78333	34.6788	0.706662	Unclassified	chr5:124795447-124806637	9.191
Doc2b	0	0	0	146	2.433333	0.347119	0	Unclassified	chr11:75582591-75611559	26.969
Doc2a	0	0	0	280	4.666667	5.50763	0.091918	Unclassified	chr7:133989066-133996219	5.154
Gm11992	0	0	0	21	0.35	0.759017	2.210491	Unclassified	chr11:8946594-8969357	20.764
Prg3	0	0	0	21	0.35	0.729275	1.586488	Unclassified	chr2:84826371-84834043	5.673

Ahr	0	0	0	496	8.266667	1.21519	12.61835	Unclassified	chr12:36182650-36221661	37.012
Ubr7	0	0	0	674	11.233333	14.149	16.11861	Unclassified	chr12:103994184-104015911	19.728
Ahsg	0	0	0	12	0.2	0	0.415509	Unclassified	chr16:22890114-22899511	7.398
Ahrr	0	0	0	203	3.383333	0.219308	2.935397	Unclassified	chr13:74348565-74431757	81.193
Apeh	0	0	0	335	5.583333	17.6884	5.403855	Unclassified	chr9:107987745-107998811	9.067
Habp2	0	0	0	43	0.716667	0.061258	0	Unclassified	chr19:56360427-56394579	32.153
Cd209d	0	0	0	11	0.183333	0.103956	1.343457	Unclassified	chr8:3871823-3880499	6.677
Cyp11a1	0	0	0	17	0.283333	0.072245	0.440179	Unclassified	chr9:57860823-57874830	12.008
Parp6	0	0	0	273	4.55	2.89093	46.65276	Stalled	chr9:59463090-59498076	32.987
Tcf21	0	0	0	13	0.216667	0.104283	1.048323	Unclassified	chr10:22537078-22541934	2.857
Lrrc6	0	0	0	98	1.633333	0.215245	0.555667	Unclassified	chr15:66211419-66334472	121.054
Nap113	0	0	0	12	0.2	1.07962	6.46143	Unclassified	chrX:119508169-119512994	2.826
Atp7a	0	0	0	295	4.916667	0.876352	45.69214	Stalled	chrX:103220614-103323499	100.886
Svs3a	0	0	0	2	0.033333	0.0533	1	Unclassified	chr2:164113003-164117236	2.234
Ntng2	0	0	0	268	4.466667	9.92649	1.229883	Unclassified	chr2:29050340-29105560	53.221
Gng13	0	0	0	52	0.866667	0.292436	1.960849	Unclassified	chr17:25852116-25856047	1.932
Tmtc3	0	0	0	138	2.3	1.47278	28.98313	Stalled	chr10:99906535-99951981	43.447
Sntb1	0	0	0	216	3.6	2.01187	5.715482	Unclassified	chr15:55470708-55740504	267.797
E130112L23Rik	0	0	0	86	1.433333	0.129298	1.257453	Unclassified	chr14:52602507-52625922	21.416
Neto2	0	0	0	39	0.65	0.217855	0.58435	Unclassified	chr8:88160486-88216908	54.423
Mbnl3	0	0	0	484	8.066667	1.14281	25.63748	Stalled	chrX:48466670-48561009	92.34
Spg21	0	0	0	304	5.066667	10.5016	11.04978	Unclassified	chr9:65306743-6536277	27.535
Mt2	0	0	0	61	1.016667	3.09963	49	Unclassified	chr8:96694517-96697467	0.951
Mtap1b	0	0	0	127	2.116667	0.12646	2.662581	Unclassified	chr13:100191418-100288557	95.14
Npln1prp2	0	0	0	19	0.316667	0	1.056989	Unclassified	chr19:58832212-58852024	17.813
Dcx	0	0	0	22	0.366667	0.017451	0	Unclassified	chrX:140290384-140369762	77.379
Dctn1	0	0	0	127	2.116667	18.2603	1.441073	Unclassified	chr6:83127582-83150112	20.531
Dct	0	0	0	29	0.483333	0.045307	0.587522	Unclassified	chr14:118412011-118453468	39.458
Ddc	0	0	0	259	4.316667	0.111721	0.453205	Unclassified	chr11:11714105-11792404	76.3
Ankrd28	0	0	0	980	16.333333	3.02414	30.81794	Unclassified	chr14:32513200-32645601	130.402
Trpv4	0	0	0	151	2.516667	0.158741	1.591624	Unclassified	chr5:115072163-115110430	36.268
Pphn1	0	0	0	1224	20.4	6.79858	26.41887	Unclassified	chr15:93226780-93322343	93.564
AK129341	0	0	0	53	0.883333	0.140568	4.594468	Unclassified	chr9:8076632-8136294	57.663
Zfp389	0	0	0	87	1.45	0.054888	32.0405	Stalled	chr13:21596184-21600393	2.21
Gm8994	0	0	0	0	0	7.16986	0	Unclassified	chr6:136275556-136280001	2.446
Hnrnpu	0	0	0	1529	25.483333	144.923	6.62007	Unclassified	chr1:180258430-180269915	9.486
Itna13	0	0	0	1	0.016667	0.034516	0	Unclassified	chr4:88289544-88292363	0.82
Olfr113	0	0	0	3	0.05	0	1	Unclassified	chr17:37711427-37714366	0.94
Fzd6	0	0	0	52	0.866667	0.276362	7.496728	Unclassified	chr15:38835878-38869734	31.857
Dync111	0	0	0	215	3.583333	0.065223	1.171854	Unclassified	chr6:5673638-5978039	302.402
Sgk1	0	0	0	188	3.133333	3.25031	44.09239	Stalled	chr10:21712471-21719706	5.236
Sgce	0	0	0	49	0.816667	0.347613	2.480873	Unclassified	chr6:4624349-4699204	72.856
Sgca	0	0	0	24	0.4	0.087484	0.746531	Unclassified	chr11:94824135-94839641	13.507
Sgpl1	0	0	0	674	11.233333	10.917	27.8584	Unclassified	chr10:60561391-60612413	49.023
Sim1	0	0	0	60	1	0.050533	2.508505	Unclassified	chr10:50613456-50708958	93.503
Scg5	0	0	0	301	5.016667	0.041781	16.18262	Stalled	chr2:113616469-113671248	52.78
2610002M06Rik	0	0	0	146	2.433333	1.60188	22.70476	Stalled	chrX:104978092-105013673	33.582
Tmem25	0	0	0	106	1.766667	0.125223	10.92619	Stalled	chr9:44601861-44609299	5.439
Ii21	0	0	0	16	0.266667	0.02086	0	Unclassified	chr3:37121680-37133540	9.861
Defb26	0	0	0	0	0	0	0	Unclassified	chr2:152333533-152339428	3.896
Nmi	0	0	0	219	3.65	12.9709	15.20037	Stalled	chr2:51804018-51830728	24.711
Pdia5	0	0	0	123	2.05	0.205458	1.344331	Unclassified	chr16:35397397-35492959	93.563
Thap4	0	0	0	455	7.583333	9.68114	31.02615	Stalled	chr1:95601967-95653415	49.449
Mkrr2	0	0	0	529	8.816667	3.80369	5.459156	Unclassified	chr6:115549955-115568688	16.734
P2rx6	0	0	0	20	0.333333	0.050948	0.336479	Unclassified	chr16:17559977-17572104	10.128
Lhfp	0	0	0	213	3.55	0.276082	6.273908	Unclassified	chr3:52843468-53065601	220.134
P2ry2	0	0	0	80	1.333333	1.08025	6.366787	Unclassified	chr7:108145085-108162505	15.421
Ncoa5	0	0	0	790	13.166667	15.1367	10.56779	Unclassified	chr2:164825856-164862279	34.424
Cryab	0	0	0	9	0.15	0.064893	0	Unclassified	chr9:50558862-50564738	3.877
Cryba1	0	0	0	79	1.316667	0	0.204615	Unclassified	chr11:77532233-77540795	6.563
Hapln1	0	0	0	47	0.783333	0.050708	0.614704	Unclassified	chr13:89678240-89751437	71.198
Crx	0	0	0	12	0.2	0	0	Unclassified	chr7:16451295-16467304	14.01
Tbx18	0	0	0	19	0.316667	0.038348	2.649366	Unclassified	chr9:87597634-87628095	28.462
Trp53rk	0	0	0	303	5.05	2.99312	6.562743	Unclassified	chr2:166617266-166624992	5.727
Mtif3	0	0	0	341	5.683333	6.70028	3.911114	Unclassified	chr5:147766097-147777350	9.254
Cryba2	0	0	0	5	0.083333	0.219082	1.046029	Unclassified	chr1:74936517-74941709	3.193
Cryba4	0	0	0	27	0.45	0.902805	1.834221	Unclassified	chr5:112675552-112683522	5.971
Aytl1b	0	0	0	8	0.133333	0.011105	0.997864	Unclassified	chr5:107858567-107864058	3.492
4921517D22Rik	0	0	0	14	0.233333	0.050927	1.16339	Unclassified	chr13:59788762-59797462	6.701
Prrg4	0	0	0	70	1.166667	1.87311	7.791554	Unclassified	chr2:104670897-104692007	19.111
Vire10	0	0	0	0	0	0.076975	0	Unclassified	chr7:11030137-11033136	1
4921504E06Rik	0	0	0	92	1.533333	0.169409	13.02357	Stalled	chr2:19384463-19477537	91.075
4931407G18Rik	0	0	0	1	0.016667	0	1	Unclassified	chr5:88406475-88410566	2.092
Tmem41b	0	0	0	328	5.466667	5.09509	24.55225	Unclassified	chr7:117115700-117131744	14.045
4930525F21Rik	0	0	0	252	4.2	0	0.785302	Unclassified	chr2:125809363-125973987	162.625
Tmem59l	0	0	0	12	0.2	0.232711	2.301433	Unclassified	chr8:73007769-73013257	3.489
Hist1h2ba	0	0	0	6	0.1	0	4	Unclassified	chr13:24025641-24028025	0.385
Padi4	0	0	0	55	0.916667	0.131076	0.722245	Unclassified	chr4:140301422-140332118	28.697
Bbs4	0	0	0	224	3.733333	0.971245	18.9261	Stalled	chr9:59169772-59203315	31.544
Pla2g2c	0	0	0	37	0.616667	0.039655	2.31746	Unclassified	chr4:138279239-138300488	19.25
Fndc3c1	0	0	0	15	0.25	0.052248	1.66316	Unclassified	chrX:103615381-103682568	65.188
Cd163	0	0	0	21	0.35	0.020371	0.566961	Unclassified	chr6:124252668-124280543	25.876
Olfr11	0	0	0	1	0.016667	0.054422	0	Unclassified	chr13:21730448-21733390	0.943
Per3	0	0	0	129	2.15	0.852376	14.27859	Stalled	chr4:150377763-150420731	40.969
Lmod2	0	0	0	26	0.433333	0.032578	0.695933	Unclassified	chr6:24545770-24555414	7.645
Id4	0	0	0	8	0.133333	0.324054	0.892274	Unclassified	chr13:48354795-48359405	2.611

Cml3	0	0	0	3	0.05	0.012945	0	Unclassified	chr6:85710624-85717738	5.115
Idi	0	0	0	23	0.383333	1.08327	18	Unclassified	chr2:152560009-152563146	1.138
Hpx	0	0	0	15	0.25	0.077937	0.73214	Unclassified	chr7:112740124-112750630	8.507
Ip6k2	0	0	0	201	3.35	8.65812	1.46327	Elongating	chr9:108696324-108708663	10.34
Cd2ap	0	0	0	910	15.16667	4.41307	38.96014	Unclassified	chr17:42929899-43015373	83.475
Cd33	0	0	0	7	0.116667	0.08242	0.970876	Unclassified	chr7:50782825-50790541	5.717
Ss18	0	0	0	1316	21.93333	11.8358	20.16625	Unclassified	chr18:14784139-14843423	57.285
Prex2	0	0	0	164	2.733333	0	3.309144	Unclassified	chr1:10981545-11293763	310.219
Klf11	0	0	0	225	3.75	1.51737	13.09409	Unclassified	chr12:25334235-25347645	11.411
Luc713	0	0	0	1184	19.73333	24.5437	14.52904	Unclassified	chr11:94152452-94185225	30.774
Dyx1c1	0	0	0	190	3.166667	1.69694	11.16364	Unclassified	chr9:72804591-72820874	14.284
2610029G23Rik	0	0	0	131	2.183333	11.8203	17.71243	Stalled	chrX:102273113-102280525	5.413
Psg28	0	0	0	3	0.05	0.004604	0.809868	Unclassified	chr7:19007886-19019404	9.519
Plcz1	0	0	0	34	0.566667	0.023495	0	Unclassified	chr6:139938242-139991938	51.697
Olfr527	0	0	0	3	0.05	0	2	Unclassified	chr7:147519762-147522680	0.919
Foxe1	0	0	0	10	0.166667	0.648787	4	Unclassified	chr4:46355065-46358181	1.117
Nkain3	0	0	0	275	4.583333	0.066544	4.014582	Unclassified	chr4:20170999-20707815	534.817
Frmf6	0	0	0	369	6.15	0.440755	53.47742	Stalled	chr12:71924500-72003221	76.722
Spag8	0	0	0	24	0.4	0.061666	2.803922	Unclassified	chr4:43664600-43668424	1.825
Olfr1026	0	0	0	1	0.016667	0.041611	0	Unclassified	chr2:85761426-85764350	0.925
4732471D19Rik	0	0	0	588	9.8	1.50294	27.59321	Unclassified	chr13:54603165-54652651	47.487
Gpr142	0	0	0	20	0.333333	0.023345	0.286404	Unclassified	chr11:114658237-114668059	7.823
Chmp4c	0	0	0	30	0.5	0.250599	3.502585	Unclassified	chr3:10364972-10391005	24.034
Far2	0	0	0	231	3.85	5.82817	0	Unclassified	chr6:147993937-148131282	135.346
Ndufc1	0	0	0	294	4.9	25.3307	18.20861	Stalled	chr3:51209400-51214877	3.478
Cd300e	0	0	0	16	0.266667	0.065759	0.412376	Unclassified	chr11:114913230-114925352	10.123
Dhrs7	0	0	0	156	2.6	10.3996	53.11393	Stalled	chr12:73751340-73767815	14.476
2310011J03Rik	0	0	0	315	5.25	29.2294	7.075065	Unclassified	chr10:79780999-79785293	2.295
Gucy1b3	0	0	0	33	0.55	0.130599	0.565854	Unclassified	chr3:81835926-81880633	42.708
Fsd2	0	0	0	123	2.05	0.316005	0.207228	Unclassified	chr7:88679239-88713867	32.629
Rufy4	0	0	0	48	0.8	0.072252	2.881102	Unclassified	chr1:74170114-74194797	22.684
Col6a6	0	0	0	171	2.85	0.051839	0	Unclassified	chr9:105591746-105732415	138.67
9230110C19Rik	0	0	0	39	0.65	1.12706	8.127559	Unclassified	chr9:8021671-8044823	21.153
Pkd2	0	0	0	47	0.783333	0.221242	1.575795	Unclassified	chr5:104886475-104934838	46.364
Pabpc1l	0	0	0	166	2.766667	0.299447	1.539834	Unclassified	chr2:163849185-163876274	25.09
Tctn2	0	0	0	135	2.25	0.940246	5.716632	Unclassified	chr5:125046757-125077658	28.902
N28178	0	0	0	43	0.716667	0.098209	0.368667	Unclassified	chr4:42928122-42954479	24.358
Sv2b	0	0	0	174	2.9	0.234052	2.134498	Unclassified	chr7:82259780-82456148	194.369
Atp2b1	0	0	0	1610	26.83333	6.53313	23.69989	Unclassified	chr10:98375785-98488775	110.991
Ephx4	0	0	0	23	0.383333	0.652023	0.537037	Unclassified	chr5:107830531-107859050	26.52
Gltpd2	0	0	0	4	0.066667	0.042615	0.209174	Unclassified	chr11:70330710-70334238	1.529
Gm6880	0	0	0	1	0.016667	0	1	Unclassified	chrX:71725625-71728738	1.114
Fam193b	0	0	0	364	6.066667	14.1455	6.030894	Unclassified	chr13:55640676-55674481	31.806
Ddx58	0	0	0	512	8.533333	6.683	5.923248	Unclassified	chr4:40150809-40188858	36.05
Slc2a13	0	0	0	258	4.3	0.434874	13.00691	Stalled	chr15:91098121-91405692	305.572
Pdzd11	0	0	0	234	3.9	11.5126	20.24918	Stalled	chrX:97818244-97823246	3.003
Gpr120	0	0	0	28	0.466667	0.423224	2.6838	Unclassified	chr19:38169568-38188753	17.186
Tbr1	0	0	0	79	1.316667	0.560786	1.45276	Unclassified	chr2:61640509-61652170	9.662
Zbtb7c	0	0	0	411	6.85	0.09531	0	Unclassified	chr18:75977831-76308218	328.388
Gtppb10	0	0	0	287	4.783333	1.58265	24.90633	Stalled	chr5:5537456-5561501	22.046
F730047E07Rik	0	0	0	1076	17.93333	7.68949	43.71219	Unclassified	chr4:24421608-24530093	106.486
Stra6	0	0	0	34	0.566667	0.097828	0.449182	Unclassified	chr9:57975155-58001803	24.649
Macrold2	0	0	0	982	16.36667	0.203833	2.016053	Unclassified	chr2:140219165-142215786	1994.622
Pofr1e	0	0	0	380	6.333333	8.76576	6.784388	Unclassified	chr4:45029496-45046564	15.069
Scnn1b	0	0	0	108	1.8	0.069162	0.661675	Unclassified	chr7:129006624-129062030	53.407
Olfr901	0	0	0	1	0.016667	0	1	Unclassified	chr9:38235868-38238804	0.937
Gdap111	0	0	0	33	0.55	0.059611	0.723181	Unclassified	chr2:163262202-163281060	16.859
Igf13	0	0	0	6	0.1	0.044579	0	Unclassified	chr7:18759842-18767211	5.37
Tmem181a	0	0	0	23	0.383333	1.28667	4.091831	Unclassified	chr17:6268474-6305783	35.31
Ralgapb	0	0	0	470	7.833333	5.48516	32.0721	Stalled	chr2:158233588-158324989	89.402
Rnf128	0	0	0	30	0.5	0.547266	9.523412	Unclassified	chrX:136143158-136207683	62.526
Gm5615	0	0	0	10	0.166667	0.038307	0.48753	Unclassified	chr9:36339987-36351548	9.562
Otor	0	0	0	1	0.016667	0.027983	1	Unclassified	chr2:142902227-142907435	3.209
Rsrc1	0	0	0	1004	16.73333	4.78044	26.2249	Stalled	chr3:66787593-67162325	372.733
Bzw1	0	0	0	818	13.63333	38.0471	21.44291	Unclassified	chr1:58447979-58463392	13.414
Olfr597	0	0	0	1	0.016667	0.058698	0	Unclassified	chr7:110466926-110469874	0.949
Lonp2	0	0	0	552	9.2	12.7451	33.38967	Stalled	chr8:89145941-89240533	92.593
Olfr517	0	0	0	0	0	0.040687	0	Unclassified	chr7:116011721-116014666	0.946
Cldn17	0	0	0	1	0.016667	0.021871	1	Unclassified	chr16:88506051-88509223	1.173
Psmb5	0	0	0	194	3.233333	93.4307	4.057079	Unclassified	chr14:55232956-55238832	3.877
Psmb4	0	0	0	401	6.683333	167.454	7.389125	Unclassified	chr3:94688245-94692880	2.636
Psmb7	0	0	0	1288	21.46667	100.008	6.673183	Unclassified	chr2:38443565-38501426	55.862
Psmb6	0	0	0	224	3.733333	75.5627	5.693316	Unclassified	chr11:70336858-70341360	2.503
Slc4a10	0	0	0	168	2.8	0.052051	0.625733	Unclassified	chr2:61882596-62164800	280.205
Cdcd132	0	0	0	476	7.933333	3.09443	12.03597	Stalled	chr6:3446392-3553530	105.139
Htra1	0	0	0	62	1.033333	0.213815	0.44678	Unclassified	chr7:138077716-138129171	49.456
Pri2c5	0	0	0	1	0.016667	0.0592	0	Unclassified	chr13:13273048-13284107	9.06
Olig3	0	0	0	9	0.15	0.446476	1.043691	Unclassified	chr10:19074344-19078410	2.067
Srd5a2	0	0	0	37	0.616667	0.120059	1.878223	Unclassified	chr17:74367045-74399256	30.212
Stx1b	0	0	0	45	0.75	0.09771	0.279599	Unclassified	chr7:134950357-134970045	17.689
Ifne	0	0	0	1	0.016667	0.077207	1	Unclassified	chr4:88525441-88528105	0.665
Lsm6	0	0	0	451	7.516667	7.84264	11.89294	Unclassified	chr8:81330349-81347039	14.691
Kctd19	0	0	0	58	0.966667	0.050791	0.692765	Unclassified	chr8:107906711-107939387	30.677
Gnl3	0	0	0	1075	17.91667	0	5.811228	Unclassified	chr14:31825618-31834275	6.658
Ptprt	0	0	0	713	11.88333	0.023848	0	Unclassified	chr2:161353358-162488883	1133.526
Ptprz1	0	0	0	119	1.983333	0.020651	1.21075	Unclassified	chr6:22823501-23002916	177.416

Rnase11	0	0	0	3	0.05	0	1	Unclassified	chr14:51669191-51671770	0.58
Ptfr	0	0	0	42	0.7	0.681253	2.703652	Unclassified	chr11:100818050-100833931	13.882
Apba1	0	0	0	220	3.666667	0.185466	7.890269	Unclassified	chr19:23831365-24024087	190.723
Igdcc3	0	0	0	576	9.6	0.269883	0.142363	Unclassified	chr9:64986995-65033677	44.683
Pwpp2b	0	0	0	139	2.316667	0.572802	11.81095	Stalled	chr7:146432380-146453152	18.773
Dand5	0	0	0	28	0.466667	0.857658	2.098039	Unclassified	chr8:87339303-87348722	7.42
Golga1	0	0	0	708	11.8	1.72688	36.93753	Unclassified	chr2:38872022-38922926	48.905
Ccdc144b	0	0	0	30	0.5	0	0.635344	Unclassified	chr3:35906170-35954469	46.3
Gm4979	0	0	0	17	0.283333	0.481432	1.994223	Unclassified	chr2:150041834-150070609	26.776
Slc10a6	0	0	0	27	0.45	0.042238	0	Unclassified	chr5:104034729-104060422	23.694
Tsks	0	0	0	29	0.483333	0.351132	0	Unclassified	chr7:52196609-52213405	14.797
Slc38a4	0	0	0	66	1.1	0.052152	0.968865	Unclassified	chr15:96825253-96888387	61.135
Gm4952	0	0	0	17	0.283333	0.050791	0	Unclassified	chr19:12672505-12702105	27.601
Tnmd	0	0	0	7	0.116667	0.019345	0.693424	Unclassified	chrX:130383546-130400116	14.571
Necab1	0	0	0	93	1.55	0.01563	1.370378	Unclassified	chr4:14879393-15078278	196.886
Cep55	0	0	0	534	8.9	13.0305	15.48499	Unclassified	chr19:38127531-38148915	19.385
Kif26a	0	0	0	81	1.35	0.087997	2.357954	Unclassified	chr12:113382418-113419958	35.541
Ccdc11	0	0	0	334	5.566667	0.096152	18.35023	Stalled	chr18:74440753-74519638	76.886
Arpp21	0	0	0	121	2.016667	0.637585	1.522914	Unclassified	chr9:111967761-112092421	122.661
Phlda2	0	0	0	10	0.166667	1.1247	7	Unclassified	chr7:150687452-150690429	0.978
Olf1371	0	0	0	0	0	0.005632	0	Unclassified	chr11:52026553-52029489	0.937
Parn	0	0	0	1028	17.133333	7.63481	39.23042	Unclassified	chr16:13538056-13670263	130.208
Prkcc	0	0	0	255	4.25	0.224373	6.342162	Unclassified	chr2:11092008-11222853	128.846
Golt1a	0	0	0	35	0.583333	0.104367	0.867551	Unclassified	chr1:135204399-135219603	13.205
Tsyp11	0	0	0	231	3.85	20.5394	16.28334	Stalled	chr10:33999995-34004691	2.697
Commd2	0	0	0	181	3.016667	5.44382	18.59922	Stalled	chr3:57448270-57457606	7.337
Mrgprb8	0	0	0	2	0.033333	0	1	Unclassified	chr7:55641895-55645018	1.124
Mrgprx1	0	0	0	6	0.1	0.032558	0	Unclassified	chr7:55276340-55284967	6.628
Tmem56	0	0	0	85	1.416667	0.096813	2.212196	Unclassified	chr3:120904927-120968234	61.308
Arid3c	0	0	0	20	0.333333	0.175666	0.296039	Unclassified	chr4:41670867-41680174	7.308
Trim10	0	0	0	8	0.133333	0.776935	0	Unclassified	chr17:37004518-37014776	8.259
Eif3e	0	0	0	567	9.45	48.8406	13.4643	Unclassified	chr15:43081585-43116282	32.698
Rlim	0	0	0	860	14.333333	3.59509	9.992087	Unclassified	chrX:101152505-101178623	24.119
Rnf7	0	0	0	269	4.483333	23.2612	8.923417	Unclassified	chr9:96371375-96381014	7.64
Gm5069	0	0	0	207	3.45	0.494199	28.86202	Stalled	chr1:182257099-182262680	3.582
Cyp2j7	0	0	0	8	0.133333	0	0	Unclassified	chr4:95861887-95905350	41.464
Gbgt1	0	0	0	15	0.25	0.019201	1.288257	Unclassified	chr2:28350410-28360935	8.526
Pibf1	0	0	0	819	13.65	3.6045	54.90368	Stalled	chr14:99496651-99653712	155.062
Ankrd22	0	0	0	27	0.45	0	0.639065	Unclassified	chr19:34197038-34242531	43.494
Lgals12	0	0	0	23	0.383333	0.032564	0.322424	Unclassified	chr19:7671150-7683666	10.517
Bbs1	0	0	0	233	3.883333	0.45349	9.910745	Unclassified	chr19:4886883-4908627	19.745
Fam83h	0	0	0	55	0.916667	0.163949	0	Unclassified	chr15:75831522-75846766	13.245
Astn2	0	0	0	677	11.283333	0.030156	0.602399	Unclassified	chr4:65041836-66067517	1023.882
Cbfb	0	0	0	866	14.433333	21.0875	21.46682	Unclassified	chr8:107692573-107741881	47.309
Mtx2	0	0	0	263	4.383333	12.2232	34.30976	Stalled	chr2:74661868-74714805	50.938
Nars	0	0	0	660	11	52.6	12.78875	Unclassified	chr18:64659306-64678211	16.906
Sdcbp	0	0	0	488	8.133333	7.77562	16.85362	Unclassified	chr4:6290826-6323269	30.444
Gm6981	0	0	0	300	5	0.414965	61.88113	Stalled	chr9:51810165-51858810	46.646
Zfp619	0	0	0	344	5.733333	0.802828	78.24199	Stalled	chr7:46771135-46795785	22.651
Agt	0	0	0	47	0.783333	0.013938	1.162849	Unclassified	chr8:127080486-127095607	13.122
C79407	0	0	0	277	4.616667	3.58881	24.29924	Stalled	chr12:66233720-66275567	39.848
Ppp1r1c	0	0	0	81	1.35	0.019389	0	Unclassified	chr2:79545936-79650470	102.535
Tmco5b	0	0	0	6	0.1	0.072526	0	Unclassified	chr2:113123888-113137347	11.46
Asb18	0	0	0	72	1.2	0.200826	1.406479	Unclassified	chr1:91849252-91913152	61.901
Pelp1	0	0	0	593	9.883333	16.7594	9.809787	Unclassified	chr11:70206383-70225533	17.151
7420426K07Rik	0	0	0	1	0.016667	0.042608	0	Unclassified	chr9:98801537-98805041	1.505
Gtf2i	0	0	0	1223	20.383333	15.7656	16.6739	Unclassified	chr5:134713703-134792616	76.914
Taf3	0	0	0	850	14.166667	5.25714	28.92351	Unclassified	chr2:9836179-9972236	134.058
Serpinh1	0	0	0	25	0.416667	0.171325	1.3806	Unclassified	chr7:106493884-106503749	7.866
Prickle2	0	0	0	238	3.966667	0.052902	1.770956	Unclassified	chr6:92320885-92658178	335.294
Gm5468	0	0	0	47	0.783333	0.289057	5.377593	Unclassified	chr15:25341946-25382173	38.228
Imp3	0	0	0	198	3.3	58.5872	177	Unclassified	chr9:56783306-56786205	0.95
Olf1165	0	0	0	3	0.05	0.026982	0	Unclassified	chr2:87941192-87944142	0.951
Vsnl1	0	0	0	91	1.516667	0.039761	0	Unclassified	chr12:11332052-11445455	111.404
D14Ert668e	0	0	0	39	0.65	0.959827	1.721956	Unclassified	chr14:59967569-59986327	16.759
Acs11	0	0	0	919	15.31667	3.89447	15.71051	Unclassified	chr8:47554395-47621404	65.01
Flrt2	0	0	0	56	0.933333	0.036078	0.630104	Unclassified	chr12:96928435-97023421	92.987
Glis3	0	0	0	367	6.116667	0.350101	3.23542	Unclassified	chr19:28336937-28756567	417.631
Shisa2	0	0	0	11	0.183333	0.24662	0.402048	Unclassified	chr14:60242117-60250495	6.379
Fap	0	0	0	81	1.35	0.047556	1.440811	Unclassified	chr2:62339001-62414078	73.078
Pkia	0	0	0	35	0.583333	0.031327	0.72837	Unclassified	chr3:7364603-7445365	78.763
Exoc3	0	0	0	492	8.2	4.8653	38.51674	Unclassified	chr13:74307252-74348148	38.897
Tas2r125	0	0	0	0	0	0	0	Unclassified	chr6:132857668-132860604	0.937
Tmem178	0	0	0	57	0.95	0.136022	1.529759	Unclassified	chr17:81341971-81401156	57.186
2810417H13Rik	0	0	0	563	9.383333	48.0493	5.558648	Unclassified	chr9:65736129-65751358	13.23
Bphl	0	0	0	332	5.533333	4.01651	25.25839	Stalled	chr13:34127509-34165943	36.435
My19	0	0	0	17	0.283333	0.091176	0.604245	Unclassified	chr2:156599199-156607393	6.195
Cgn	0	0	0	25	0.416667	0.315286	6.291443	Unclassified	chr3:94563991-94592437	26.447
Ric3	0	0	0	31	0.516667	0.265569	1.246822	Unclassified	chr7:116177832-116228838	49.007
Kcnh4	0	0	0	89	1.483333	0.257478	3.579101	Unclassified	chr11:100601692-100623092	19.401
Elf3	0	0	0	15	0.25	0.07267	1.788991	Unclassified	chr1:137150150-137157049	4.9
Pkdrej	0	0	0	12	0.2	0.167059	2.739398	Unclassified	chr15:85645105-85654163	7.059
Taf51	0	0	0	1106	18.433333	12.3019	12.6042	Unclassified	chr8:126520215-126547209	24.995
Cbln1	0	0	0	18	0.3	0.214063	0.199476	Unclassified	chr8:89992751-89998491	3.741
Nipbl	0	0	0	1403	23.383333	8.628	25.6698	Unclassified	chr15:8241224-8396463	153.24
Gm5077	0	0	0	10	0.166667	0.072173	0	Unclassified	chr6:124574642-124588103	11.462

1700123L14Rik	0	0	0	0	0	0.05268	0	Unclassified	chr6:96114496-96118199	1.704
Rgs20	0	0	0	99	1.65	0.041559	1.606802	Unclassified	chr1:4900049-5011460	109.412
Kcns3	0	0	0	34	0.566667	0.017479	1.342202	Unclassified	chr12:11097007-11159179	60.173
Olfr61	0	0	0	1	0.016667	0.034215	0	Unclassified	chr7:147821601-147824537	0.937
AI747699	0	0	0	70	1.166667	2.09037	5.102079	Unclassified	chr19:33629770-33666801	35.032
AI314180	0	0	0	1532	25.53333	9.98233	20.98606	Unclassified	chr4:58812902-58927597	112.696
Ifi2712b	0	0	0	8	0.133333	1.77445	0	Unclassified	chr12:104689107-104697433	6.327
Aff2	0	0	0	100	1.666667	0.025713	0.836555	Unclassified	chrX:66611505-67121212	507.708
Serpina10	0	0	0	3	0.05	0	0	Unclassified	chr12:104854884-104871615	14.732
Fmn1	0	0	0	277	4.616667	0.055887	0.584358	Unclassified	chr2:113165892-113556924	389.033
6430704M03Rik	0	0	0	30	0.5	0.156297	0.502206	Unclassified	chr4:56973007-57005263	30.257
Unc79	0	0	0	160	2.666667	0.036326	0	Unclassified	chr12:104238098-104422208	182.111
Wdyhv1	0	0	0	343	5.716667	7.57783	10.13654	Unclassified	chr15:57970990-57990209	17.22
2010005H15Rik	0	0	0	11	0.183333	0	0	Unclassified	chr16:36219647-36257513	35.867
Olfr68	0	0	0	1	0.016667	0.074276	1	Unclassified	chr7:110925909-110928857	0.949
Fcgrt	0	0	0	56	0.933333	2.3667	1.860839	Unclassified	chr7:52348362-52361192	10.831
Rpsa	0	0	0	1326	22.1	0	2.286596	Elongating	chr9:120034883-120041487	4.605
Npy2r	0	0	0	12	0.2	0.02288	0.465355	Unclassified	chr3:82342304-82354007	9.704
Cadm2	0	0	0	369	6.15	0.098344	3.632753	Unclassified	chr16:66655669-67623153	965.485
Olfr553	0	0	0	2	0.033333	0.032646	0	Unclassified	chr7:109762520-109765501	0.982
Nptx1	0	0	0	27	0.45	0.126126	3.507337	Unclassified	chr11:119400032-119411134	9.103
Ctnd2	0	0	0	516	8.6	0.075441	1.875618	Unclassified	chr15:30100347-30959098	856.752
Npr3	0	0	0	72	1.2	0.040723	3.114899	Unclassified	chr15:11769651-11837429	65.779
Trim55	0	0	0	42	0.7	0.136268	1.645131	Unclassified	chr3:19542459-19591599	47.141
Npr1	0	0	0	48	0.8	0.917303	2.36573	Unclassified	chr3:90254513-90271788	15.276
Olfr784	0	0	0	1	0.016667	0.018842	1	Unclassified	chr10:128822690-128825650	0.961
Olfr1095	0	0	0	0	0	0.041477	0	Unclassified	chr2:86690926-86693853	0.928
Olfr599	0	0	0	0	0	0.054077	0	Unclassified	chr7:110484569-110487517	0.949
Olfr516	0	0	0	0	0	0	0	Unclassified	chr7:115988577-115991522	0.946
Olfr514	0	0	0	0	0	0.027473	0	Unclassified	chr7:115968578-115971511	0.934
Npy6r	0	0	0	4	0.066667	0.014978	0	Unclassified	chr18:44427780-44437354	7.575
Olfr781	0	0	0	2	0.033333	0	2	Unclassified	chr10:128767938-128770874	0.937
Gpr128	0	0	0	45	0.75	0.109136	1.240625	Unclassified	chr16:56724721-56797971	71.251
Zpld1	0	0	0	28	0.466667	0	0	Unclassified	chr16:55225287-55285350	58.064
Lbxcor1	0	0	0	34	0.566667	0.207838	0.604204	Unclassified	chr9:62985970-62996787	8.818
Chchd10	0	0	0	153	2.55	47.8348	3.009783	Unclassified	chr10:75396317-75400479	2.163
Pdzd2	0	0	0	417	6.95	0.311471	2.550921	Unclassified	chr15:12286808-12524311	235.504
Camk1	0	0	0	98	1.633333	0.483698	1.288288	Unclassified	chr6:113284117-113295916	9.8
Dbr1	0	0	0	340	5.666667	13.3175	13.85585	Unclassified	chr9:99474217-99484762	8.546
Akr1c6	0	0	0	8	0.133333	0.018861	0	Unclassified	chr13:4431588-4456776	23.189
Srrt	0	0	0	1172	19.53333	88.8958	5.369166	Unclassified	chr5:137736931-137750902	11.972
N6amt1	0	0	0	337	5.616667	4.50853	25.44951	Unclassified	chr16:87352429-87368894	14.466
Slc38a2	0	0	0	1431	23.85	15.4027	3.884632	Unclassified	chr15:96517822-96532129	12.308
Gm14374	0	0	0	0	0	0	0	Unclassified	chrX:5244184-5248144	1.961
Gm5634	0	0	0	0	0	0	0	Unclassified	chrX:8539259-8542101	0.843
Olfr161	0	0	0	1	0.016667	0.054422	0	Unclassified	chr16:3590397-3593339	0.943
Dnajc15	0	0	0	200	3.333333	20.8837	15.15556	Stalled	chr14:78226023-78276724	48.702
Ndufa7	0	0	0	661	11.01667	61.1662	27.81078	Unclassified	chr17:33959558-33975258	13.701
Stxbp6	0	0	0	127	2.116667	0.04445	0.640579	Unclassified	chr12:45953472-46177470	221.999
Olfr1339	0	0	0	0	0	0	0	Unclassified	chr4:118405135-118408083	0.949
Gm5635	0	0	0	1	0.016667	0.034928	0	Unclassified	chrX:8638215-8640948	0.734
Cox7b	0	0	0	156	2.6	59.4933	7.582934	Unclassified	chrX:103209038-103217789	6.752
Eef1e1	0	0	0	570	9.5	26.4687	10.30476	Unclassified	chr13:38737559-38752897	13.339
Eif4e2	0	0	0	1169	19.48333	42.5318	15.74574	Unclassified	chr1:89108488-89137063	26.576
Pdcd6ip	0	0	0	822	13.7	14.9923	18.80682	Unclassified	chr9:113560862-113619377	56.516
Nedd4	0	0	0	908	15.13333	7.72055	24.27096	Unclassified	chr9:72508153-72597655	87.503
Tarsi2	0	0	0	304	5.066667	2.14241	21.13995	Stalled	chr7:72787783-72836979	47.197
C78339	0	0	0	294	4.9	6.01297	5.99203	Unclassified	chr13:46762890-46771142	6.253
Olfr267	0	0	0	4	0.066667	0	2	Unclassified	chr4:58797651-58800592	0.942
Emcn	0	0	0	42	0.7	0.043892	0.695293	Unclassified	chr3:137002041-137094032	89.992
Olfr1	0	0	0	2	0.033333	0.013562	1	Unclassified	chr11:73208577-73211522	0.946
Olfr1180	0	0	0	0	0	0	0	Unclassified	chr2:88251883-88254813	0.931
4930595M18Rik	0	0	0	5	0.083333	0.009691	0.903728	Unclassified	chrX:78664913-78705461	38.549
Apob48r	0	0	0	32	0.533333	0.662262	2.045605	Unclassified	chr7:133726521-133732606	4.086
Steap4	0	0	0	35	0.583333	0.407936	5.338254	Unclassified	chr5:7958471-7982213	21.743
Ugt2b1	0	0	0	6	0.1	0.015108	0	Unclassified	chr5:87345663-87357528	9.866
Dppa2	0	0	0	6	0.1	0.051824	0	Unclassified	chr16:48308386-48319626	9.241
Crelid1	0	0	0	311	5.183333	6.95583	19.37988	Stalled	chr6:113431562-113443332	9.771
Gucy2g	0	0	0	90	1.5	0.052769	0.652594	Unclassified	chr19:55272590-55317726	43.137
Ofd1	0	0	0	395	6.583333	2.85495	53.57823	Stalled	chrX:162827964-162880636	50.673
Pcdh21	0	0	0	25	0.416667	0.023822	0.986418	Unclassified	chr14:37891034-37913497	20.464
Ankfn1	0	0	0	112	1.866667	0	0.516568	Unclassified	chr11:89282399-89401869	117.471
Slc13a1	0	0	0	44	0.733333	0.066778	0.65235	Unclassified	chr6:24038282-24120092	79.811
Ddx3x	0	0	0	968	16.13333	35.1724	19.43299	Unclassified	chrX:12856147-12871109	12.963
Pcf11	0	0	0	1132	18.86667	7.65518	9.227608	Unclassified	chr7:99792223-99820422	26.2
Lrit2	0	0	0	3	0.05	0.033208	0	Unclassified	chr14:37879234-37886921	5.688
Gga1	0	0	0	853	14.21667	17.8836	9.914393	Unclassified	chr15:78705619-78725014	17.396
Centpe	0	0	0	600	10	6.30134	11.88519	Unclassified	chr3:134873526-134936504	60.979
1700127D06Rik	0	0	0	0	0	0.486334	0	Unclassified	chr7:51198381-51201297	0.917
Mfap3l	0	0	0	44	0.733333	0.230431	3.290891	Unclassified	chr8:63109675-63151546	39.872
Slc16a10	0	0	0	329	5.483333	1.6025	38.67703	Stalled	chr10:39753340-39864060	108.721
Fbxw17	0	0	0	265	4.416667	3.40193	12.7755	Unclassified	chr13:50511245-50529138	15.894
Lrit1	0	0	0	10	0.166667	0.017813	1.064874	Unclassified	chr14:37866015-37878124	10.11
4930596D02Rik	0	0	0	3	0.05	0	0	Unclassified	chr14:36622671-36627164	2.494
Cma2	0	0	0	1	0.016667	0.087856	0	Unclassified	chr14:56588264-56592832	2.569
V1rb2	0	0	0	1	0.016667	0.013737	0	Unclassified	chr6:90022079-90025012	0.934

Lce3a	0	0	0	0	0	0.023345	0	Unclassified	chr3:92729208-92732152	0.945
Ttc30a2	0	0	0	6	0.1	1.28472	3	Unclassified	chr2:75814228-75818236	2.009
6030429G01Rik	0	0	0	155	2.583333	2.32975	0.269451	Unclassified	chr7:4474558-4486044	9.487
Klk1b27	0	0	0	3	0.05	0.013136	0	Unclassified	chr7:51305659-51312081	4.423
Lamp1	0	0	0	428	7.133333	43.3821	7.217091	Unclassified	chr8:13157134-13175338	16.205
Adcy5	0	0	0	219	3.65	0.12404	2.900985	Unclassified	chr16:35153721-35304635	148.915
Olfir1065	0	0	0	0	0	0	0	Unclassified	chr2:86285169-86288161	0.993
Zfp81	0	0	0	248	4.133333	4.31822	50.74185	Stalled	chr17:33470672-33497823	25.152
Prok2	0	0	0	13	0.216667	0.061872	0.540124	Unclassified	chr6:99661293-99678386	15.094
Ttpa	0	0	0	12	0.2	0.092355	2.259494	Unclassified	chr4:19933574-19957932	22.359
Olfir1037	0	0	0	0	0	0	0	Unclassified	chr2:85924966-85927932	0.967
Kpna3	0	0	0	615	10.25	7.42698	25.89683	Unclassified	chr14:61984022-62060784	74.763
Rab7	0	0	0	325	5.416667	42.9479	0.982995	Unclassified	chr6:87950428-87965684	13.257
Dennd5a	0	0	0	536	8.933333	9.93836	12.21535	Unclassified	chr7:117037294-117105936	66.643
Kng1	0	0	0	20	0.333333	0.080021	0.545237	Unclassified	chr16:23056372-23082151	23.78
4930404A10Rik	0	0	0	40	0.666667	0.036671	3.752681	Unclassified	chr11:54182153-54240257	56.105
Kpna1	0	0	0	874	14.566667	4.72858	34.12559	Unclassified	chr16:35981448-36036248	52.801
Kpna2	0	0	0	937	15.616667	13.7888	10.32573	Unclassified	chr11:106849942-106862839	10.898
Cldn2	0	0	0	5	0.083333	0.126394	0.704971	Unclassified	chrX:136333366-136345923	10.558
Cldn3	0	0	0	4	0.066667	0.197622	3	Unclassified	chr5:135460083-135463342	1.26
Clcnka	0	0	0	37	0.616667	0.042632	0.568237	Unclassified	chr4:140940525-140956621	14.097
Serpinb8	0	0	0	14	0.233333	0.087526	0.599653	Unclassified	chr1:109484582-109505555	18.974
Cldn1	0	0	0	12	0.2	0.039606	1.223803	Unclassified	chr16:26356736-26373925	15.19
Etd	0	0	0	2	0.033333	0	0	Unclassified	chrX:50786094-50796753	8.66
Defb38	0	0	0	3	0.05	0	0.508237	Unclassified	chr8:19023463-19028529	3.067
C1qtnf3	0	0	0	26	0.433333	0.03877	1.076231	Unclassified	chr15:10880110-10909905	27.796
Dcun1d4	0	0	0	257	4.283333	0.974534	14.38425	Stalled	chr5:73880320-73952025	69.706
Smarce1	0	0	0	681	11.35	21.7874	9.665765	Unclassified	chr11:99070363-99094331	21.969
Klk1b24	0	0	0	5	0.083333	0.01066	0	Unclassified	chr7:51441632-51447821	4.19
D10627	0	0	0	334	5.666667	2.77227	16.50575	Unclassified	chr8:71730944-71754438	21.495
Olfir628	0	0	0	0	0	0.020167	0	Unclassified	chr7:110878441-110881392	0.952
Nptx2	0	0	0	23	0.383333	0.035168	3.015126	Unclassified	chr5:145304755-145318347	11.593
Rbm11	0	0	0	11	0.183333	0.583939	2.564868	Unclassified	chr16:75591135-75603070	9.936
C2cd2l	0	0	0	241	4.016667	5.39874	9.95789	Unclassified	chr9:44117319-44130365	11.047
Mrrf	0	0	0	474	7.9	5.3289	36.21713	Stalled	chr2:35989917-36045801	53.885
Zkscan16	0	0	0	25	0.416667	0.197245	4.156245	Unclassified	chr4:58954499-58971227	14.729
Olfir340	0	0	0	3	0.05	0.087508	3	Unclassified	chr2:36306106-36309045	0.94
Spcs3	0	0	0	594	9.9	29.0074	18.93882	Unclassified	chr8:55605786-55617351	9.566
Tdgf1	0	0	0	14	0.233333	0.046509	0	Unclassified	chr9:110842111-110850662	6.552
Tmem51	0	0	0	121	2.016667	0.427924	3.22297	Unclassified	chr4:141586907-141642219	53.313
Spata19	0	0	0	1	0.016667	0	1	Unclassified	chr9:27202405-27209295	4.891
Ccr1	0	0	0	12	0.2	0.081489	1.443983	Unclassified	chr9:123876958-123885525	6.568
Park2	0	0	0	943	15.716667	0.433017	21.89328	Stalled	chr17:11031249-12256226	1222.978
1700001C19Rik	0	0	0	41	0.683333	0.268292	0.753635	Unclassified	chr17:47549695-47576276	24.582
Yeats2	0	0	0	720	12	4.16813	18.27809	Unclassified	chr16:20139135-20232646	91.512
Zfp62	0	0	0	979	16.316667	4.4399	17.39632	Unclassified	chr11:49015001-49032318	15.318
Cyp4f39	0	0	0	87	1.45	1.25324	2.671119	Unclassified	chr17:32587667-32630265	40.599
Rfx6	0	0	0	15	0.25	0.066732	0.82448	Unclassified	chr10:51395565-51450235	52.671
C330007P06Rik	0	0	0	140	2.333333	5.9084	4.61487	Unclassified	chrX:34388538-34406241	15.704
Lrrfip2	0	0	0	424	7.066667	4.1958	33.11655	Stalled	chr9:111018614-111128172	107.559
Abca12	0	0	0	112	1.866667	0.026178	0	Unclassified	chr1:71289663-71463484	171.822
Pyhin1	0	0	0	79	1.316667	7.61558	2.207803	Unclassified	chr1:175558989-175578059	17.071
Bat2d	0	0	0	1469	24.483333	23.8019	15.61702	Unclassified	chr1:164601915-164672687	68.773
1700025E21Rik	0	0	0	9	0.15	0.060597	0.57122	Unclassified	chr6:30460303-30469963	7.661
Rai14	0	0	0	208	3.466667	0.253985	1.24634	Unclassified	chr15:10498733-10645295	144.563
1700011F14Rik	0	0	0	38	0.633333	0	0	Unclassified	chr19:58584491-58627575	41.085
1700029I15Rik	0	0	0	80	1.333333	0.354042	48	Unclassified	chr2:92221074-92223758	0.685
Gpr97	0	0	0	46	0.766667	0.047351	0.822746	Unclassified	chr8:97539591-97569147	27.557
Plac8	0	0	0	347	5.783333	16.314	1.561746	Elongating	chr5:100982751-101003224	18.474
Samd9l	0	0	0	211	3.516667	6.18728	2.615211	Elongating	chr6:3322256-3351571	27.316
Ncoa7	0	0	0	526	8.766667	2.57007	46.847	Stalled	chr10:30365387-30524913	157.527
Atp8b1	0	0	0	127	2.116667	0.135263	2.071322	Unclassified	chr18:64688632-64822654	132.023
Nrg1	0	0	0	64	1.066667	0.08532	0.619171	Unclassified	chr8:32928499-33030675	100.177
Kctd18	0	0	0	339	5.65	4.85764	18.54734	Unclassified	chr1:58011944-58028928	14.985
Ibtk	0	0	0	670	11.16667	8.92122	0.397582	Unclassified	chr9:85580962-85639766	56.805
D830046C22Rik	0	0	0	57	0.95	0	0.545584	Unclassified	chr5:139851650-139856007	2.358
Cmtm8	0	0	0	223	3.716667	2.76944	21.99635	Stalled	chr9:114698462-114755270	54.809
Cort	0	0	0	93	1.55	0.566183	1.744915	Unclassified	chr4:148499299-148502850	1.552
Dlat	0	0	0	348	5.8	10.6026	37.13668	Stalled	chr9:50442739-50469885	25.147
Fam188a	0	0	0	816	13.6	8.07422	30.85413	Unclassified	chr2:12268890-12343087	72.198
Nthl1	0	0	0	158	2.633333	5.96274	22.89395	Stalled	chr17:24767626-24775782	6.157
Akap1	0	0	0	561	9.35	5.73926	28.1446	Unclassified	chr11:88692105-88727900	33.796
Akap4	0	0	0	3	0.05	0.0135	0	Unclassified	chrX:6642644-6655732	11.089
Akap3	0	0	0	30	0.5	0.068989	0.428111	Unclassified	chr6:12680115-126824326	21.212
Dusp5	0	0	0	1272	21.2	6.3795	6.509685	Unclassified	chr19:53601807-53615812	12.006
Mttp	0	0	0	58	0.966667	1.63471	0.415528	Unclassified	chr3:137752818-137796341	41.524
Mast2	0	0	0	632	10.53333	5.9376	16.7018	Stalled	chr4:115979366-116138788	157.423
Mtnr1a	0	0	0	8	0.133333	0.05969	0	Unclassified	chr8:46152563-46173860	19.298
Mtm1	0	0	0	116	1.933333	0.794184	9.242916	Unclassified	chrX:68466256-68568470	100.215
Sic35f3	0	0	0	138	2.3	0.119736	2.543536	Unclassified	chr8:128820478-128919877	97.4
Micall2	0	0	0	55	0.916667	0.310151	1.494846	Unclassified	chr5:140182646-140214287	29.642
Exoc5	0	0	0	498	8.3	4.99946	53.62111	Stalled	chr14:49631818-49688342	54.525
Gsr	0	0	0	531	8.85	2.70244	6.878829	Unclassified	chr8:34761709-34808634	44.926
Stim2	0	0	0	631	10.51667	3.64457	44.35793	Stalled	chr5:54387761-54512295	122.535
Sox14	0	0	0	2	0.033333	0.106023	0	Unclassified	chr9:99774534-99778589	2.056
Wfikkn1	0	0	0	177	2.95	0.343655	0.931812	Unclassified	chr17:26014572-26019803	3.232

Sos1	0	0	0	986	16.43333	3.6508	21.32801	Unclassified	chr17:80793091-80881793	86.703
Sort1	0	0	0	117	1.95	0.220088	6.167539	Unclassified	chr3:108085049-108164429	77.381
Sox12	0	0	0	288	4.8	4.91525	3.65465	Unclassified	chr2:152219347-152225782	4.436
Sox11	0	0	0	10	0.166667	0.140264	0.482268	Unclassified	chr12:28019132-28029583	8.452
Vezt	0	0	0	484	8.066667	2.24303	19.70508	Unclassified	chr10:93430844-93500493	67.65
Sox1	0	0	0	5	0.083333	0.117464	1.006293	Unclassified	chr8:12393518-12399555	4.038
Rnf150	0	0	0	212	3.533333	0.756205	3.694703	Unclassified	chr8:85385254-85615169	227.916
Lphn1	0	0	0	330	5.5	1.87805	6.550738	Unclassified	chr8:86421996-86465853	41.858
Olf146	0	0	0	0	0	0.013916	0	Unclassified	chr9:38826203-38829124	0.922
Poln	0	0	0	678	11.3	0	102.7668	Stalled	chr5:34349846-34514097	162.252
Rpl31	0	0	0	572	9.533333	0	2.958811	Elongating	chr1:39422695-39428753	4.059
Tcap	0	0	0	10	0.166667	0.161856	0.183206	Unclassified	chr11:98243124-98246267	1.144
St6galnac1	0	0	0	17	0.283333	0.058862	0.88289	Unclassified	chr11:116626338-116638821	10.484
Sucla2	0	0	0	376	6.266667	10.7713	26.20855	Stalled	chr14:73950592-73995949	43.358
Olf1415	0	0	0	2	0.033333	0.040204	0	Unclassified	chr1:94387394-94390330	0.937
Amot	0	0	0	21	0.35	0.076515	1.351801	Unclassified	chrX:141880966-141923589	40.624
Stxbp4	0	0	0	451	7.516667	0.454964	103.4288	Stalled	chr11:90337808-90501422	161.615
Tfdp2	0	0	0	284	4.733333	1.02902	12.65875	Stalled	chr9:96094693-96224065	127.373
Eif1	0	0	0	949	15.81667	42.3322	6.615883	Unclassified	chr11:100179309-100183410	2.102
St8sia1	0	0	0	200	3.333333	0.143828	2.137804	Unclassified	chr6:142770060-142914972	142.913
3830403N18Rik	0	0	0	7	0.116667	0.19801	1.522126	Unclassified	chrX:53387748-53406673	16.926
Rhox7	0	0	0	1	0.016667	0.005363	0	Unclassified	chrX:35182862-35194348	9.487
Tmem82	0	0	0	52	0.866667	0.831262	3.501716	Unclassified	chr4:141170147-141176548	4.402
3830417A13Rik	0	0	0	2	0.033333	0.015554	0	Unclassified	chrX:61424722-61431952	5.231
Nup205	0	0	0	989	16.48333	10.6143	12.21894	Unclassified	chr6:35125615-35197590	69.976
Gm14484	0	0	0	0	0	0	0	Unclassified	chrX:10887059-10889553	0.495
Olf1275	0	0	0	2	0.033333	0	1	Unclassified	chr2:111071009-111073948	0.94
Rbms1	0	0	0	1832	30.53333	13.1477	15.77191	Unclassified	chr2:60590009-60721495	129.487
Myh7	0	0	0	27	0.45	0.036414	0	Unclassified	chr14:55589524-55615386	23.863
Otx1	0	0	0	24	0.4	0.19508	0.88828	Unclassified	chr11:21894766-21903654	6.889
Otp	0	0	0	12	0.2	0.314445	0.413696	Unclassified	chr13:95643581-95653636	8.056
2310042E22Rik	0	0	0	0	0	0.007021	0	Unclassified	chr16:21152731-21156017	1.287
Ovol1	0	0	0	52	0.866667	0.477175	2.155244	Unclassified	chr19:5549136-5562575	11.44
Otx2	0	0	0	6	0.1	0.104077	1.103139	Unclassified	chr14:49277858-49284547	4.69
Fzd10	0	0	0	5	0.083333	0.141546	0.332109	Unclassified	chr5:129104980-129109968	2.989
BC032203	0	0	0	233	3.883333	1.91863	0.637567	Unclassified	chr17:46935064-46970362	33.299
Lrrc9	0	0	0	44	0.733333	0.272622	3.842972	Unclassified	chr12:73540852-73611552	68.701
Gm6289	0	0	0	6	0.1	0	0	Unclassified	chr3:144542288-144560975	16.688
Crmp1	0	0	0	69	1.15	0.12949	1.279084	Unclassified	chr5:37631318-37683372	50.055
Crif1	0	0	0	76	1.266667	0.926359	0.119708	Unclassified	chr8:73015054-73027980	10.927
Nxt2	0	0	0	53	0.883333	1.61957	30.41299	Stalled	chrX:138660735-138674233	11.499
Pcdha6	0	0	0	111	1.85	0	0	Unclassified	chr18:37125409-37347311	219.903
Ccdc155	0	0	0	196	3.266667	1.84192	41.87148	Stalled	chr7:52439046-52462262	21.217
Lyg2	0	0	0	7	0.116667	0.03499	0.614693	Unclassified	chr1:37962767-37975338	10.572
B3gnt7	0	0	0	216	3.6	9.77558	3.18166	Unclassified	chr1:88197795-88203878	4.084
V1rb8	0	0	0	0	0	0.013781	0	Unclassified	chr6:89924164-89927094	0.931
Hif3a	0	0	0	145	2.416667	0.724932	18.64492	Stalled	chr7:17616341-17644028	25.688
Htatip2	0	0	0	264	4.4	12.4971	13.49965	Unclassified	chr7:57012475-57029369	14.895
Ppp1r3c	0	0	0	11	0.183333	0.114945	3.381818	Unclassified	chr19:36806220-36813094	4.875
V1ra8	0	0	0	1	0.016667	0.03809	0	Unclassified	chr6:90150810-90153650	0.841
V1ra9	0	0	0	2	0.033333	0.020231	0	Unclassified	chr6:90217099-90220047	0.949
Lpar2	0	0	0	302	5.033333	1.56038	10.50313	Unclassified	chr8:72344463-72355001	8.539
4931408A02Rik	0	0	0	99	1.65	0.189688	1.347609	Unclassified	chr16:90829357-90904940	73.584
V1rc2	0	0	0	3	0.05	0.04794	3	Unclassified	chr6:58255290-58258202	0.913
Nelf	0	0	0	163	2.716667	5.0475	8.473444	Unclassified	chr2:24907898-24918401	8.504
Dffb	0	0	0	294	4.9	13.6278	14.96839	Unclassified	chr4:153338557-153351190	10.634
Spon1	0	0	0	469	7.816667	0.247289	1.874063	Unclassified	chr7:120907511-121186689	277.379
B430211C08Rik	0	0	0	27	0.45	0.139076	0	Unclassified	chr7:15146519-15210415	61.897
Sic22a6	0	0	0	7	0.116667	0.038112	1.300944	Unclassified	chr19:8690485-8702789	10.305
Pik3c3	0	0	0	645	10.75	8.96794	13.33344	Unclassified	chr18:30430549-30507774	75.226
Oprm1	0	0	0	216	3.6	0.058278	0	Unclassified	chr10:3308331-3559940	249.61
Orc2l	0	0	0	745	12.41667	7.60672	23.76615	Unclassified	chr1:58519614-58563763	42.15
BC048502	0	0	0	10	0.166667	0.070906	0	Unclassified	chr15:103269390-103280890	9.501
Idh3g	0	0	0	603	10.05	47.7143	16.52944	Unclassified	chrX:71024301-71034236	7.936
Sifn9	0	0	0	105	1.75	1.46958	8.12664	Unclassified	chr11:82793804-82807332	11.529
Sifn10	0	0	0	187	3.116667	1.42033	12.47517	Stalled	chr11:82841629-82856035	12.407
Ppp1r3d	0	0	0	6	0.1	0.215829	2.125146	Unclassified	chr2:178145911-178151177	3.267
Pls3	0	0	0	50	0.833333	0.663187	2.884533	Unclassified	chrX:73030992-73121913	88.922
1700071K01Rik	0	0	0	4	0.066667	0.539157	1	Unclassified	chr11:81386003-81389041	1.039
Aaas	0	0	0	387	6.45	22.3272	10.94201	Unclassified	chr15:102168677-102183190	12.514
V1rc24	0	0	0	1	0.016667	0.028165	0	Unclassified	chr6:57875876-57878785	0.91
V1rc21	0	0	0	3	0.05	0.043008	2	Unclassified	chr6:56904506-56907400	0.895
V1rc20	0	0	0	1	0.016667	0.00701	1	Unclassified	chr6:56950348-56953260	0.913
V1rc19	0	0	0	1	0.016667	0.07434	0	Unclassified	chr6:56933335-56936283	0.949
V1rc18	0	0	0	2	0.033333	0	1	Unclassified	chr6:57905636-57908525	0.89
V1rc17	0	0	0	1	0.016667	0	0	Unclassified	chr6:57958176-57961196	1.021
Ces7	0	0	0	19	0.316667	0.020136	0.532637	Unclassified	chr8:96038094-96061607	21.514
Grk1	0	0	0	35	0.583333	0.063784	1.383911	Unclassified	chr8:13403080-13421949	16.87
Xkrx	0	0	0	30	0.5	0.479257	2.168466	Unclassified	chrX:130683583-130698467	12.885
Olf111	0	0	0	2	0.033333	0	1	Unclassified	chr17:37664901-37667942	1.042
V1rc26	0	0	0	2	0.033333	0	2	Unclassified	chr6:57339661-57342561	0.901
V1rc25	0	0	0	1	0.016667	0	1	Unclassified	chr6:58213167-58216076	0.91
2610036L11Rik	0	0	0	269	4.483333	9.2809	24.54302	Stalled	chr10:29915814-29922346	4.533
Smurf2	0	0	0	709	11.81667	2.70056	45.10905	Stalled	chr11:106681379-106784029	100.651
Gnb4	0	0	0	234	3.9	3.91778	4.018289	Unclassified	chr3:32482449-32517457	33.009
Senp7	0	0	0	408	6.8	7.30863	34.96874	Stalled	chr16:56073521-56190124	114.604

Slc9a2	0	0	0	73	1.216667	0.311877	2.295322	Unclassified	chr1:40736556-40825730	87.175
Gngt1	0	0	0	2	0.033333	0	0	Unclassified	chr6:3942011-3947436	3.426
1110065P20Rik	0	0	0	543	9.05	9.66595	14.72389	Unclassified	chr4:124526728-124529974	1.247
Vmem86b	0	0	0	189	3.15	2.64297	0.568479	Unclassified	chr7:4579641-4584084	2.444
Tmm2r61	0	0	0	22	0.366667	0.005948	0.665014	Unclassified	chr7:49513422-49556125	40.704
Ptcd2	0	0	0	745	12.41667	11.651	22.84322	Unclassified	chr13:100089603-100116633	25.031
Gm5523	0	0	0	13	0.216667	0.181019	12	Unclassified	chr1:13775765-13779010	1.246
Larp4b	0	0	0	1535	25.58333	13.438	21.45359	Unclassified	chr13:9091150-9172336	79.187
Pde5a	0	0	0	131	2.183333	0.240039	2.602894	Unclassified	chr3:122430075-122562290	130.216
Cycl1	0	0	0	1	0.016667	0.013058	0	Unclassified	chrX:108303756-108319213	13.458
Nlgn2	0	0	0	70	1.166667	1.43969	1.725869	Unclassified	chr11:69636624-69650351	11.728
Nts	0	0	0	2	0.033333	0	0	Unclassified	chr10:101944389-101955052	8.664
Setd8	0	0	0	1025	17.08333	18.2968	3.919413	Unclassified	chr5:124887938-124912316	22.379
Defb13	0	0	0	1	0.016667	0	0	Unclassified	chr8:23055233-23059094	1.862
Zfp758	0	0	0	124	2.066667	2.64383	10.46873	Stalled	chr17:22496419-22514248	15.83
Cntnap3	0	0	0	59	0.983333	0.028961	2.240846	Unclassified	chr13:64838898-65007196	166.299
4932441B19Rik	0	0	0	5	0.083333	0.018903	0.496729	Unclassified	chr13:65132365-65139312	4.948
Fmo5	0	0	0	72	1.2	0.693426	18.57007	Stalled	chr3:97430760-97459210	26.451
Trpm2	0	0	0	98	1.633333	0.140577	2.427414	Unclassified	chr10:77370467-77434617	62.151
Hif1an	0	0	0	446	7.433333	6.66019	6.160927	Unclassified	chr19:44635343-44650764	13.422
Gcgr	0	0	0	34	0.566667	0.059796	0.959582	Unclassified	chr11:120390040-120400298	8.259
Gcg	0	0	0	10	0.166667	0.117473	0.474453	Unclassified	chr2:62312586-62323710	9.125
Gcet2	0	0	0	27	0.45	0.163216	1.762157	Unclassified	chr16:45608552-45622980	12.429
Slco1a1	0	0	0	22	0.366667	0.00677	1.309666	Unclassified	chr6:141856373-141897315	38.943
Slc41a1	0	0	0	560	9.333333	8.99997	22.63398	Unclassified	chr1:133722588-133745438	20.851
Slc17a4	0	0	0	33	0.55	0.077424	0.730734	Unclassified	chr13:23989757-24008876	17.12
Mex3a	0	0	0	52	0.866667	1.38457	1.856678	Unclassified	chr3:88337969-88345300	5.332
Cxx1c	0	0	0	11	0.183333	2.69113	10	Unclassified	chrX:50909098-50912311	1.214
Naa38	0	0	0	351	5.85	23.1154	25.69636	Unclassified	chr6:18796634-18804052	5.419
Helt	0	0	0	8	0.133333	0.184046	0.245283	Unclassified	chr8:47377401-47382025	2.625
Sorbs2	0	0	0	288	4.8	0.096183	0	Unclassified	chr8:46591148-46913258	320.111
Bbs9	0	0	0	1033	17.21667	4.10445	9.077175	Unclassified	chr9:22278158-22692724	412.567
Psp1	0	0	0	882	14.7	20.9478	10.6764	Unclassified	chr4:83101584-83134294	30.711
Zfp334	0	0	0	18	0.3	0.045836	1.187311	Unclassified	chr2:165202935-165215759	10.825
Znrf3	0	0	0	866	14.43333	0.749787	24.02548	Stalled	chr11:5176331-5346850	168.52
I133	0	0	0	63	1.05	0.045146	0	Unclassified	chr19:29997603-30035205	35.603
A930001N09Rik	0	125.7342	0	435	7.25	0.95799	36.03545	Stalled	chr17:26850594-26913569	60.976
Defb11	0	0	0	1	0.016667	0	0	Unclassified	chr8:23015860-23018883	1.024
Olfr748	0	0	0	1	0.016667	0.013838	0	Unclassified	chr14:51328006-51330930	0.925
Olfr694	0	0	0	0	0	0.020263	0	Unclassified	chr7:113832295-113835243	0.949
Serpini2	0	0	0	11	0.183333	0.036358	0	Unclassified	chr3:75046292-75076000	27.709
Lrrc39	0	0	0	128	2.133333	1.86658	0.265852	Unclassified	chr3:116263890-116286052	20.163
Olfr1437	0	0	0	1	0.016667	0	1	Unclassified	chr19:12396376-12399315	0.94
Olfr1317	0	0	0	1	0.016667	0.026921	1	Unclassified	chr2:111980103-111983054	0.952
Olfr164	0	0	0	1	0.016667	0.175751	1	Unclassified	chr16:19285886-19288834	0.949
Olfr1314	0	0	0	3	0.05	0	1	Unclassified	chr2:111931917-111934856	0.94
Olfr282	0	0	0	1	0.016667	0.103564	1	Unclassified	chr15:98265900-98268828	0.929
Mpp2	0	0	0	92	1.533333	0.285365	5.219251	Unclassified	chr11:101918330-101951829	31.5
Grif1	0	0	0	1649	27.48333	2.87567	46.6975	Unclassified	chr7:17079821-17202342	120.522
Uba2	0	0	0	927	15.45	36.4988	15.56909	Unclassified	chr7:34925715-34955548	27.834
Prl6a1	0	0	0	6	0.1	0.05913	0	Unclassified	chr13:27402495-27411120	6.626
Prl4a1	0	0	0	3	0.05	0.030085	0.75976	Unclassified	chr13:28106091-28115415	7.325
Prl7a1	0	0	0	3	0.05	0	1.780798	Unclassified	chr13:27725239-27736362	9.124
Prl8a6	0	0	0	4	0.066667	0	0.612703	Unclassified	chr13:27524721-27532466	5.746
Prl7a2	0	0	0	6	0.1	0	0.628363	Unclassified	chr13:27750452-27761905	9.454
Prlr	0	0	0	246	4.1	0.171248	3.318509	Unclassified	chr15:10104992-10266775	159.784
Prm2	0	0	0	3	0.05	0	3	Unclassified	chr16:10791473-10794190	0.718
Prm1	0	0	0	4	0.066667	0.096122	4	Unclassified	chr16:10796424-10798916	0.493
Spc24	0	0	0	326	5.433333	22.8109	5.437767	Unclassified	chr9:21559885-21566730	4.846
Pard3	0	0	0	561	9.35	0.169032	2.978857	Unclassified	chr8:129585955-130136186	548.232
Fhdcl	0	0	0	61	1.016667	0.131578	2.430451	Unclassified	chr3:84247946-84286351	36.406
Chtf8	0	0	0	807	13.45	24.8735	11.15059	Unclassified	chr8:109407762-109419493	9.732
Gpr25	0	0	0	22	0.366667	1.22322	1.071429	Unclassified	chr1:138155491-138159450	1.96
Otud6b	0	0	0	305	5.083333	7.96568	25.63265	Stalled	chr4:14736651-14755734	17.084
4930486L24Rik	0	0	0	13	0.216667	0.037338	1.350776	Unclassified	chr13:60943972-60967777	21.806
Nlrp10	0	0	0	44	0.733333	0.544578	4.986522	Unclassified	chr7:116065366-116075672	8.307
Thoc5	0	0	0	652	10.86667	13.0267	21.44137	Unclassified	chr11:4793345-4828868	33.524
Fras1	0	0	0	313	5.216667	0.088935	1.141792	Unclassified	chr5:96800973-97213747	410.775
Whsc1	0	0	0	1516	25.26667	16.3554	8.830636	Unclassified	chr5:34161477-34238525	75.049
Samd12	0	0	0	283	4.716667	0.13722	2.44706	Unclassified	chr15:53293355-53735991	440.637
Cd209a	0	0	0	7	0.116667	0.034545	0.604795	Unclassified	chr8:3743394-3750984	5.591
Tm7sf3	0	0	0	390	6.5	3.33941	2.275793	Elongating	chr6:146550797-146585114	32.318
Mfsd7c	0	0	0	237	3.95	0.458614	1.583082	Unclassified	chr12:87085488-87154535	67.048
Grwd1	0	0	0	315	5.25	26.0122	3.516614	Unclassified	chr7:53080592-53088159	5.568
Tdrd9	0	0	0	124	2.066667	0.026651	0.890415	Unclassified	chr12:113207769-113307065	97.297
Ntm	0	0	0	697	11.61667	0.10633	0	Unclassified	chr9:28803548-29772714	967.167
6720456H20Rik	0	0	0	452	7.533333	1.52986	48.95398	Stalled	chr14:49064026-49134834	68.809
Ash2l	0	0	0	719	11.98333	16.3841	11.33704	Unclassified	chr8:26927341-26953251	23.911
Lgals2	0	0	0	20	0.333333	0	0.355024	Unclassified	chr15:78681291-78687959	4.669
Fbxo25	0	0	0	238	3.966667	3.40833	13.04965	Stalled	chr8:13905805-13940521	32.717
Ccni	0	0	0	615	10.25	16.7174	14.08045	Unclassified	chr5:93610958-93637521	24.564
Slc14a2	0	0	0	398	6.633333	0.066177	0.531809	Unclassified	chr18:78342882-78795689	450.808
D630003M21Rik	0	0	0	84	1.4	0.0618	0	Unclassified	chr2:158008268-158056958	46.691
Arih2	0	0	0	626	10.43333	4.96625	22.4852	Unclassified	chr9:108505273-108553711	46.439
Gm4981	0	0	0	8	0.133333	0.243667	1.346196	Unclassified	chr10:57697595-57701408	1.814
Scgn	0	0	0	39	0.65	0.054499	3.797473	Unclassified	chr13:24045325-24085083	37.759

Lemd1	0	0	0	129	2.15	0.10441	1.755827	Unclassified	chr1:134086012-134153958	65.947
Olfr1109	0	0	0	2	0.033333	0	0	Unclassified	chr2:86932613-86935552	0.94
Ccdc54	0	0	0	2	0.033333	0.197783	0	Unclassified	chr16:50589971-50593267	1.297
Fbxo6	0	0	0	309	5.15	10.8487	7.239246	Unclassified	chr4:147519824-147528034	6.211
Il17c	0	0	0	262	4.366667	0.352743	1.136873	Elongating	chr8:124943984-124947539	1.556
4933433C11Rik	0	0	0	7	0.116667	0.035875	0	Unclassified	chr2:25068079-25072150	2.072
Arhgap24	0	0	0	776	12.93333	3.19876	21.45149	Stalled	chr5:102908409-103326956	416.548
Cep72	0	0	0	300	5	2.05685	28.49234	Stalled	chr13:74173942-74201733	25.792
4933427D14Rik	0	0	0	189	3.15	1.69811	0.424823	Unclassified	chr11:71967598-72018873	49.276
Kifc3	0	0	0	119	1.983333	0.292276	1.064717	Unclassified	chr8:97623727-97668440	42.714
Kifc1	0	0	0	194	3.233333	15.4629	11.29189	Unclassified	chr17:27052035-27069524	15.49
Calm5	0	0	0	2	0.033333	0	2	Unclassified	chr13:3851418-3854007	0.59
Snx11	0	0	0	399	6.65	13.7113	11.45473	Unclassified	chr11:96628862-96640869	10.008
Mamdc4	0	0	0	350	5.833333	0.825513	0.586705	Unclassified	chr2:25418634-25428836	8.203
Uhmk1	0	0	0	303	5.05	9.92059	11.12785	Unclassified	chr1:172129386-172147524	16.139
Inadl	0	0	0	636	10.6	1.35032	21.59589	Stalled	chr4:98060516-98386294	323.779
Tlr1	0	0	0	98	1.633333	5.30823	2.579891	Elongating	chr5:65316072-65325938	7.867
Tll1	0	0	0	88	1.466667	0.106629	3.506775	Unclassified	chr8:66493566-66686790	191.225
Mpl	0	0	0	17	0.283333	0.061575	1.619632	Unclassified	chr4:118115021-118132100	15.08
Alpk3	0	0	0	93	1.55	0.064394	1.036967	Unclassified	chr7:88200485-88250498	48.014
Stk3	0	0	0	568	9.466667	2.09973	23.62448	Stalled	chr15:34805253-35087561	280.309
Tmem45a	0	0	0	37	0.616667	0.038002	0.689666	Unclassified	chr16:56805273-56888276	81.004
Gkap1	0	0	0	104	1.733333	1.33745	11.40005	Stalled	chr13:58334711-58377549	40.839
Obsl1	0	0	0	60	1	0.399816	1.111668	Unclassified	chr1:75482399-75505027	20.629
Wwtr1	0	0	0	105	1.75	0.194269	2.782798	Unclassified	chr3:57259565-57381798	120.234
Gm5087	0	0	0	63	1.05	0.016671	0	Unclassified	chr14:13989901-14119152	127.252
Pik3c2g	0	0	0	77	1.283333	0.025476	0	Unclassified	chr6:139787965-139917804	127.84
Olfr244	0	0	0	1	0.016667	0	1	Unclassified	chr1:176047221-176050145	0.925
Gm10639	0	0	0	9	0.15	0.061186	0.646002	Unclassified	chr9:78135734-78153332	15.599
Irs1	0	0	0	226	3.766667	0.494278	2.57366	Unclassified	chr1:82229679-82290014	58.336
Irs3	0	0	0	68	1.133333	0.449696	0.325826	Unclassified	chr5:138084259-138088942	2.684
B3galt5	0	0	0	82	1.366667	0.043616	0.50938	Unclassified	chr16:96455407-96541465	84.059
Hemgn	0	0	0	149	2.483333	4.57633	3.671546	Unclassified	chr4:46406860-46419055	10.196
Naa11	0	0	0	8	0.133333	0.261655	1.291935	Unclassified	chr5:97811227-97823349	10.123
Uncx	0	0	0	23	0.383333	0.104098	0.294588	Unclassified	chr5:140017851-140024132	4.282
Lmb	0	0	0	55	0.916667	0.022854	0	Unclassified	chr15:76845918-76883098	35.181
Lrrc26	0	0	0	5	0.083333	0.122166	1	Unclassified	chr2:25143466-25146696	1.231
Cts8	0	0	0	5	0.083333	0.041127	1.434122	Unclassified	chr13:61348107-61358709	8.603
Matn3	0	0	0	28	0.466667	0.346523	5.006311	Unclassified	chr12:8952734-8978297	23.564
Plac1	0	0	0	16	0.266667	0	0	Unclassified	chrX:50423178-50469582	44.405
Pfpl	0	0	0	4	0.066667	0.137188	1	Unclassified	chr19:12500394-12506600	4.207
Cts7	0	0	0	6	0.1	0.017169	0.48512	Unclassified	chr13:61453821-61461531	5.711
Pdim3	0	0	0	39	0.65	0.308631	2.580507	Unclassified	chr8:46968838-47004900	34.063
Unc5a	0	0	0	110	1.833333	0.145127	1.384612	Unclassified	chr13:55048792-55107379	56.588
Lipi	0	0	0	12	0.2	0.017533	0	Unclassified	chr16:75540788-75569927	27.14
Dlg3	0	0	0	237	3.95	5.69342	0.527091	Unclassified	chrX:97961085-98013747	50.663
Sult1d1	0	0	0	5	0.083333	0	0	Unclassified	chr5:87983674-88000031	14.358
Plrg1	0	0	0	340	5.666667	20.504	14.89522	Unclassified	chr3:82857459-82876213	16.755
Crh	0	0	0	5	0.083333	0.196538	0	Unclassified	chr3:19593414-19597329	1.916
Cela2a	0	0	0	79	1.316667	0.045713	0.236166	Unclassified	chr4:141370877-141383918	11.042
Bpi	0	0	0	73	1.216667	0.158493	1.718751	Unclassified	chr2:158081976-158110267	26.292
Ccdc60	0	0	0	168	2.8	0.014891	0	Unclassified	chr5:116575589-116740994	163.406
Il18	0	0	0	8	0.133333	0.088797	0.720553	Unclassified	chr9:50371472-50389942	16.471
Rfp13s	0	0	0	13	0.216667	0	0.611925	Unclassified	chr9:55810395-55830739	18.345
Il19	0	0	0	13	0.216667	0.075169	0.411202	Unclassified	chr1:132829232-132837818	6.587
Flrt3	0	0	0	8	0.133333	0.035476	0.671593	Unclassified	chr2:140483936-140499205	13.27
Vps13c	0	0	0	463	7.716667	1.85938	19.20094	Stalled	chr9:67686202-67843441	155.24
Gpr63	0	0	0	21	0.35	0.016223	0	Unclassified	chr4:24898565-24936380	35.816
Tbl1xr1	0	0	0	1944	32.4	2.08357	13.00464	Unclassified	chr3:21973573-22115516	139.944
Trim23	0	0	0	407	6.783333	3.21729	36.79472	Stalled	chr13:104967177-104992128	22.952
Sgpp2	0	0	0	366	6.1	0.881385	0.698433	Unclassified	chr1:78304920-78416861	109.942
Dnd1	0	0	0	251	4.183333	1.68823	0.87483	Unclassified	chr18:36923325-36927868	2.544
Plod1	0	0	0	196	3.266667	2.41628	25.78179	Stalled	chr4:147283862-147312885	27.024
V1rg12	0	0	0	0	0	0	0	Unclassified	chr7:12888153-12891068	0.916
Ccdc68	0	0	0	33	0.55	0.033617	0	Unclassified	chr18:70083212-70129138	43.927
Zbbx	0	0	0	53	0.883333	0.021202	1.371802	Unclassified	chr3:74841828-74949645	105.818
Mmp8	0	0	0	13	0.216667	0.21407	3.609403	Unclassified	chr9:7556428-7568486	10.059
Gm826	0	0	0	13	0.216667	0.035049	0	Unclassified	chr2:160137136-160155230	16.095
F8	0	0	0	64	1.066667	0.063185	0.766081	Unclassified	chrX:72418057-72627380	207.324
F2rl2	0	0	0	25	0.416667	0.031209	1.775744	Unclassified	chr13:96464874-96472723	5.85
F2rl3	0	0	0	14	0.233333	0.101832	3.512207	Unclassified	chr8:75283778-75287784	2.007
F2r	0	0	0	41	0.683333	0.291526	5.004133	Unclassified	chr13:96371743-96390388	16.646
F2rl1	0	0	0	53	0.883333	0.581081	4.497742	Unclassified	chr13:96281683-96297195	13.513
F13b	0	0	0	15	0.25	0.032337	0	Unclassified	chr1:141396283-141420333	22.051
Cct6a	0	0	0	748	12.46667	45.5062	28.98435	Unclassified	chr5:130291260-130322231	28.972
AW549877	0	0	0	556	9.266667	5.75938	24.91215	Unclassified	chr15:3932034-3947752	13.719
Defa20	0	0	0	0	0	0.029944	0	Unclassified	chr8:22617727-22620709	0.983
Kcnh8	0	0	0	165	2.75	0.116735	2.618767	Unclassified	chr17:52740087-53044544	302.458
Lhx8	0	0	0	23	0.383333	0.058344	1.733486	Unclassified	chr3:153969257-153995524	24.268
1110058L19Rik	0	0	0	140	2.333333	5.69508	22.44877	Stalled	chr1:24002778-24014479	9.702
Srxn1	0	0	0	44	0.733333	0.267937	7.992	Unclassified	chr2:151929465-151937089	5.625
Defb22	0	0	0	4	0.066667	0.041012	0.536608	Unclassified	chr2:152311401-152317874	4.474
Spata22	0	0	0	9	0.15	0	0.656726	Unclassified	chr11:73141242-73159546	16.305
Ctsll3	0	0	0	11	0.183333	0.038419	2.091671	Unclassified	chr13:60899610-60906205	4.596
AU022751	0	0	0	3	0.05	0	0.546279	Unclassified	chrX:5658335-5662538	2.204
Ptplb	0	0	0	603	10.05	3.29093	28.54302	Unclassified	chr16:35020506-35109261	86.756

Slc47a2	0	0	0	89	1.483333	0.183321	1.974835	Unclassified	chr11:61115132-61158362	41.231
Shisa6	0	0	0	217	3.616667	0.042818	0.5965	Unclassified	chr11:66025226-66341628	314.403
Magohb	0	0	0	97	1.616667	6.7084	9.315822	Unclassified	chr6:131234406-131245262	8.857
Fmnl2	0	0	0	1107	18.45	0.908794	7.189809	Unclassified	chr2:52714901-52993236	276.336
1700108M19Rik	0	0	0	9	0.15	0.679654	0.55861	Unclassified	chr12:36934931-36946789	9.859
Cnot7	0	0	0	458	7.633333	9.35891	26.03169	Unclassified	chr8:41578389-41598658	18.27
Fam83c	0	0	0	38	0.633333	0.076777	0.496164	Unclassified	chr2:155654918-155662590	5.673
Trp53inp1	0	356.2468	0	443	7.383333	5.86986	21.33294	Unclassified	chr4:11081587-11101524	17.938
Apob	0	0	0	41	0.683333	0.022115	0	Unclassified	chr12:7982482-8023645	39.164
Gdf7	0	0	0	30	0.5	0.595215	0.689264	Unclassified	chr12:8304723-8310760	4.038
Cxcl3	0	0	0	7	0.116667	0.853218	1.32352	Unclassified	chr5:91213128-91217116	1.989
Aqp12	0	0	0	10	0.166667	0	0	Unclassified	chr1:94900910-94908846	5.937
Rpusd2	0	0	0	332	5.533333	5.25535	13.70153	Unclassified	chr2:118858525-118867931	7.407
Pln	0	0	0	24	0.4	0.103357	0.516687	Unclassified	chr10:53055491-53065805	8.315
Fhl4	0	0	0	251	4.183333	1.62231	38.33708	Stalled	chr10:84559763-84567240	5.478
Figf	0	0	0	30	0.5	0	0	Unclassified	chrX:160809479-160840579	29.101
Gsdma2	0	0	0	7	0.116667	0.090041	0	Unclassified	chr11:98506072-98519271	11.2
Fktn	0	0	0	225	3.75	0.454538	32.14107	Stalled	chr4:53725053-53776143	49.091
Cpa2	0	0	0	67	1.116667	0.396043	0.254366	Unclassified	chr6:30489641-30514473	22.833
Trdn	0	0	0	133	2.216667	0.019875	0.748201	Unclassified	chr10:32801288-33196515	393.228
Raph1	0	0	0	166	2.766667	0.636628	6.864311	Unclassified	chr1:60540028-60625609	83.582
Slc16a14	0	0	0	15	0.25	0.090019	2.85357	Unclassified	chr1:84903279-84933658	28.38
H1fx	0	0	0	20	0.333333	5.22223	0.533396	Unclassified	chr6:87930414-87933476	1.063
Mtpap	0	0	0	447	7.45	6.27374	9.085438	Unclassified	chr18:4373589-4397328	21.74
Gm5584	0	0	0	22	0.366667	0	0	Unclassified	chr7:14495025-14576937	79.913
Nrxn1	0	0	0	506	8.433333	0.041114	2.033411	Unclassified	chr17:90432983-91494142	1059.16
Nrtn	0	0	0	40	0.666667	0.375845	4.895977	Unclassified	chr17:56890747-56898953	6.207
Nrl	0	0	0	7	0.116667	0.703617	0	Unclassified	chr14:56137814-56145802	5.989
Lipm	0	0	0	14	0.233333	0.040282	0.633543	Unclassified	chr19:34173432-34197177	21.746
Pnmal2	0	0	0	4	0.066667	0.780487	0.317872	Unclassified	chr7:17528030-17532427	2.398
Nrf1	0	0	0	1754	29.23333	11.2385	32.07572	Unclassified	chr6:29995987-30103458	105.472
Rictor	0	0	0	811	13.51667	1.58429	16.81862	Unclassified	chr15:6656380-6750400	92.021
Galntl2	0	0	0	52	0.866667	0.043798	0.375208	Unclassified	chr14:32840288-32871512	29.225
Fam122b	0	0	0	188	3.133333	4.30668	32.1517	Stalled	chrX:50596593-50624982	26.39
Drd5	0	0	0	5	0.083333	0.118924	4	Unclassified	chr5:38708747-38713549	2.803
Elmo3	0	0	0	406	6.766667	1.29439	3.687245	Unclassified	chr8:107827500-107834522	5.023
Sfrs13b	0	0	0	27	0.45	0.143906	0.593403	Unclassified	chr4:33293965-33320315	24.351
Trnt1	0	0	0	533	8.883333	14.4187	10.44724	Unclassified	chr6:106717165-106732463	13.299
4932418E24Rik	0	0	0	40	0.666667	0.056903	0.731473	Unclassified	chr2:26127166-26152077	22.912
Spg20	0	0	0	343	5.716667	6.49437	18.35724	Unclassified	chr3:54914029-54941253	25.225
Arhgap9	0	0	0	169	2.816667	12.5813	1.706138	Elongating	chr10:126758782-126766999	6.218
Otof	0	0	0	136	2.266667	0.02036	0	Unclassified	chr5:30669350-30766305	94.956
1110018J18Rik	0	0	0	135	2.25	7.96259	15.2215	Stalled	chr13:64393143-64416018	20.876
Lrtm1	0	0	0	17	0.283333	0.033276	0	Unclassified	chr14:29829393-29846828	15.436
6030419C18Rik	0	0	0	63	1.05	0.700867	2.974424	Unclassified	chr9:58334409-58347549	11.141
Cxxc4	0	0	0	10	0.166667	0.18634	1.500268	Unclassified	chr3:133901111-133925125	22.015
Fkbp11	0	0	0	72	1.2	27.0581	7.067969	Unclassified	chr15:98554798-98560629	3.832
Chchd1	0	0	0	318	5.3	39.0095	49.49164	Unclassified	chr14:21520248-21523639	1.392
Elof1	0	0	0	51	0.85	27.1128	1.601508	Unclassified	chr9:21917432-21920613	1.182
H2-Q10	0	0	0	12	0.2	0	0.995418	Unclassified	chr17:35605033-35611508	4.476
Gcnt7	0	0	0	218	3.633333	0	0.735136	Unclassified	chr2:172275812-172286096	8.285
Htr1f	0	0	0	79	1.316667	0.020433	1.411896	Unclassified	chr16:64924554-65107610	181.057
Tmem106c	0	0	0	210	3.5	6.41382	30.91585	Stalled	chr15:97792709-97800706	5.998
Htr1b	0	0	0	5	0.083333	2.58283	2	Unclassified	chr9:81524998-81528159	1.162
Htr1a	0	0	0	9	0.15	0.075034	1.602918	Unclassified	chr13:106231772-106238213	4.442
H2-Oa	0	0	0	154	2.566667	30.1237	1.938225	Elongating	chr17:34227323-34232179	2.857
Snx6	0	0	0	589	9.816667	10.8879	24.71859	Unclassified	chr12:55847343-55898649	49.307
Olf1085	0	0	0	0	0	0.009585	0	Unclassified	chr2:86497673-86500613	0.941
Htr2b	0	0	0	124	2.066667	0	0.816522	Unclassified	chr1:87995611-88010545	12.935
Nckap5l	0	0	0	153	2.55	0.810518	8.757084	Unclassified	chr15:99252464-99290179	35.716
Htr7	0	0	0	1783	29.71667	16.3978	10.36832	Unclassified	chr19:36033218-36133850	98.633
Igf2	0	0	0	30	0.5	0.311045	2.2952	Unclassified	chr7:149836672-149848940	10.269
D3Erd751e	0	0	0	198	3.3	0.595218	75.44757	Stalled	chr3:41544539-41562861	16.323
Icos	0	0	0	16	0.266667	0.181289	0	Unclassified	chr1:61032757-61057162	22.406
Neu3	0	0	0	109	1.816667	2.24538	20.42645	Stalled	chr7:106959948-106978927	16.98
Nek10	0	0	0	64	1.066667	0.019337	1.259436	Unclassified	chr14:15695735-15804174	106.44
Mrgpra3	0	0	0	5	0.083333	0.014845	0	Unclassified	chr7:54844319-54858741	12.423
Olf1739	0	0	0	0	0	0.030331	0	Unclassified	chr14:51042195-51045125	0.931
Mrgpra1	0	0	0	9	0.15	0	1.448102	Unclassified	chr7:54590244-54611610	19.367
Fam159b	0	0	0	17	0.283333	1.61345	0.540047	Unclassified	chr13:105635362-105655973	18.612
Igfbp1	0	0	0	4	0.066667	0.033727	0.652838	Unclassified	chr11:7095789-7102549	4.761
Olf1738	0	0	0	1	0.016667	0.084972	1	Unclassified	chr14:51031220-51034156	0.937
Kbtbd2	0	0	0	773	12.88333	3.15033	20.31159	Unclassified	chr6:56727518-56749807	20.29
Ttc30a1	0	0	0	31	0.166667	2.49387	7.308375	Unclassified	chr2:75817162-75822024	2.863
Megf9	0	0	0	212	3.533333	2.51962	83.17953	Stalled	chr4:70092960-70197962	103.003
Zfp647	0	0	0	272	4.533333	0.416979	26.14776	Stalled	chr15:76740799-76757878	15.08
Spz1	0	0	0	6	0.1	0.048091	0.692308	Unclassified	chr13:93344588-93348187	1.6
2510003E04Rik	0	0	0	368	6.133333	9.01933	32.12691	Stalled	chr10:62021217-62043205	19.989
Krtap16-9	0	0	0	1	0.016667	0	1	Unclassified	chr16:88869162-88871655	0.494
Krtap16-7	0	0	0	0	0	0	0	Unclassified	chr16:89403271-89406019	0.749
Ralbp1	0	0	0	123	2.05	13.3459	1.411175	Unclassified	chr17:66197770-66219171	19.402
Htatsf1	0	0	0	334	5.566667	11.8473	46.84276	Stalled	chrX:54304791-54320359	13.569
Gm4861	0	0	0	3	0.05	0	0.612253	Unclassified	chr3:137213008-137217586	2.579
Cops6	0	0	0	463	7.716667	81.598	1.490011	Elongating	chr5:138600329-138605212	2.884
Gm6957	0	0	0	12	0.2	0	0.758209	Unclassified	chr7:14807825-14842182	32.358
Pak2	0	0	0	1101	18.35	13.1961	15.97828	Unclassified	chr16:32017948-32081359	61.412

Rit1	0	0	0	210	3.5	6.23563	6.970592	Unclassified	chr3:88518775-88534970	14.196
Olfr1395	0	0	0	3	0.05	0	2	Unclassified	chr11:48959760-48962714	0.955
1810049H13Rik	0	0	0	321	5.35	9.99726	7.392475	Unclassified	chr11:120317917-120321377	1.461
Olfr908	0	0	0	1	0.016667	0	0	Unclassified	chr9:38321618-38324550	0.933
Chchd7	0	0	0	237	3.95	16.9833	46.30323	Stalled	chr4:3864060-3870670	4.611
Msx2	0	0	0	11	0.183333	0.100776	1.485002	Unclassified	chr13:53562249-53570149	5.901
Ero11	0	0	0	445	7.416667	11.7513	31.50611	Unclassified	chr14:45903995-45940202	34.208
Olfr330	0	0	0	1	0.016667	0.01908	1	Unclassified	chr11:58342538-58345486	0.949
Spag6	0	0	0	48	0.8	0.756206	3.852541	Unclassified	chr16:16753109-16831456	76.348
Sall2	0	0	0	68	1.133333	0.258813	0.607098	Unclassified	chr14:52930855-52950345	17.491
Rab12	0	0	0	465	7.75	3.8573	5.013463	Unclassified	chr17:66843851-66871010	25.16
Rab17	0	0	0	40	0.666667	0.408346	2.655997	Unclassified	chr1:92854710-92868197	11.488
Mstn	0	0	0	6	0.1	0.009557	1.287242	Unclassified	chr1:53116506-53124923	6.418
Maml1	0	0	0	936	15.6	5.97071	19.51138	Unclassified	chr11:50069136-50107838	36.703
Rbp7	0	0	0	15	0.25	0	1.930057	Unclassified	chr4:148823810-148831077	5.268
Msx1	0	0	0	8	0.133333	0.188301	0.436302	Unclassified	chr5:38211729-38217824	4.096
Tmprss13	0	0	0	61	1.016667	0.264592	0.98759	Unclassified	chr9:45125182-45156663	28.482
Epc2	0	0	0	1114	18.56667	6.01759	29.6991	Unclassified	chr2:49305005-49407129	100.125
Uxt	0	0	0	187	3.116667	6.25341	19.44581	Stalled	chrX:20528790-20541104	10.315
V1ra1	0	0	0	4	0.066667	0.022836	0	Unclassified	chr6:90070636-90080639	8.004
V1ra2	0	0	0	1	0.016667	0.012627	0	Unclassified	chr6:89881643-89892501	8.859
Uty	0	0	0	656	10.93333	1.37257	14.01621	Stalled	chrY:433586-584181	148.596
Ccng2	0	20.9557	0	278	4.633333	7.62393	13.78962	Stalled	chr5:93694598-93705257	8.66
Slc45a2	0	0	0	18	0.3	0.021482	0.647175	Unclassified	chr15:10928475-10958988	28.514
Atad2b	0	0	0	1318	21.96667	3.52362	27.187	Unclassified	chr12:4922158-5054216	130.059
Slc27a2	0	0	0	48	0.8	0.439867	0.886313	Unclassified	chr2:126376759-126413979	35.221
Slc27a5	0	0	0	18	0.3	0.027515	0.809905	Unclassified	chr7:13573695-13585541	9.847
Sema4g	0	0	0	178	2.966667	0.300825	0.518997	Unclassified	chr19:45061833-45077885	14.053
Pcgf1	0	0	0	199	3.316667	7.01047	13.26631	Stalled	chr6:83026383-83030849	2.467
Pla2g12b	0	0	0	63	1.05	0	0.226666	Unclassified	chr10:58864432-58884724	18.293
Pkn3	0	0	0	219	3.65	0.721346	0.936495	Unclassified	chr2:29932285-29946539	12.255
Vangl1	0	0	0	60	1	0.137686	1.861323	Unclassified	chr3:101960620-102010616	47.997
Olfr1044	0	0	0	1	0.016667	0	1	Unclassified	chr2:86011027-86013972	0.946
Insm1	0	0	0	695	11.58333	9.61849	3.855031	Unclassified	chr2:146045732-146050752	3.021
5430405G05Rik	0	0	0	12	0.2	0.465073	1.252766	Unclassified	chr2:151525743-151533044	5.302
Tex10	0	0	0	598	9.966667	5.99743	21.61105	Unclassified	chr4:48443827-48488294	42.468
Cdon	0	0	0	238	3.966667	0.776321	1.158859	Unclassified	chr9:35257660-35315237	55.578
Gm609	0	0	0	41	0.683333	0.024159	0	Unclassified	chr16:45416867-45495082	76.216
Fam180a	0	0	0	22	0.366667	0.041938	1.18454	Unclassified	chr6:35262745-35278141	13.397
1100001E04Rik	0	0	0	14	0.233333	0.04639	1.447264	Unclassified	chrX:46821626-46853427	29.802
Slitrk5	0	0	0	6	0.1	0.154638	1.401317	Unclassified	chr14:112072336-112082357	8.022
Ifna4	0	0	0	0	0	0.139308	0	Unclassified	chr4:88485719-88488363	0.645
Dao	0	0	0	36	0.6	0.127265	0.815072	Unclassified	chr5:114451834-114475469	21.636
Slc9a10	0	0	0	68	1.133333	0.016705	0	Unclassified	chr16:45533421-45607114	71.694
Chst10	0	0	0	409	6.816667	7.07216	9.016278	Unclassified	chr1:38920717-38957005	34.289
Aim2	0	0	0	479	7.983333	5.1349	3.884463	Unclassified	chr1:175348734-175396167	45.434
Ifna6	0	0	0	1	0.016667	0.004624	1	Unclassified	chr4:88471319-88473889	0.571
Zfp85-rs1	0	0	0	49	0.816667	0.528226	13.57493	Stalled	chr13:67848736-67858071	7.336
9130221D24Rik	0	0	0	43	0.716667	0.053681	1.289182	Unclassified	chr3:132822494-132899853	75.36
Olfr1337	0	0	0	6	0.1	0.013519	4	Unclassified	chr4:118454240-118457188	0.949
Olfr493	0	0	0	0	0	0.02706	0	Unclassified	chr7:115489548-115492493	0.946
Ferd3l	0	0	0	5	0.083333	0.057927	2	Unclassified	chr12:34611289-34614174	0.886
Olfr1356	0	0	0	3	0.05	0.026618	3	Unclassified	chr10:78309695-78312658	0.964
Olfr518	0	0	0	1	0.016667	0.063954	1	Unclassified	chr7:116024116-116027118	1.003
Olfr1340	0	0	0	2	0.033333	0	0	Unclassified	chr4:118396853-118399801	0.949
Hisppd2a	0	0	0	93	1.55	2.37642	0.604872	Unclassified	chr2:121136296-121178749	40.454
Lrrn4	0	0	0	43	0.716667	0.767033	0.719017	Unclassified	chr2:132694251-132708598	12.348
Tprkb	0	0	0	303	5.05	4.50038	15.35009	Unclassified	chr6:85863712-85880277	14.566
Ceacam13	0	0	0	8	0.133333	0.040644	2.027001	Unclassified	chr7:18593237-18604569	9.333
Olfr657	0	0	0	0	0	0	0	Unclassified	chr7:111782189-111785141	0.953
Dera	0	0	0	677	11.28333	17.3696	40.20996	Unclassified	chr6:137701097-137786393	83.297
Olfr829	0	0	0	0	0	0	0	Unclassified	chr9:18659070-18662036	0.967
Gm829	0	0	0	57	0.95	0	1.273972	Unclassified	chr4:45694460-45736578	40.119
Zfp119	0	0	0	214	3.566667	0.893402	28.64662	Stalled	chr17:56004191-56020195	14.005
Tmem65	0	0	0	399	6.65	1.99049	56.69873	Stalled	chr15:58613823-58656982	41.16
Fam166b	0	0	0	18	0.3	0.423146	0.169895	Unclassified	chr4:43439893-43444006	2.114
Zfp871	0	0	0	607	10.11667	2.89973	9.121934	Unclassified	chr17:32902441-32927232	22.792
Olfr641	0	0	0	1	0.016667	0.054596	0	Unclassified	chr7:111186311-111189250	0.94
Defb44	0	0	0	6	0.1	0	0	Unclassified	chr1:18200133-18215645	13.513
D730048I06Rik	0	0	0	0	0	0.019215	0	Unclassified	chr9:35595634-35599697	2.064
Fam131c	0	0	0	34	0.566667	0.330669	0	Unclassified	chr4:140922134-140940090	15.957
Galnt11	0	0	0	466	7.766667	3.43428	21.58657	Unclassified	chr5:24726710-24771736	43.027
Gpbar1	0	0	0	94	1.566667	0.038837	48	Unclassified	chr1:74323173-74326163	0.991
Gm694	0	0	0	10	0.166667	0	1.074598	Unclassified	chr4:140988817-140994020	3.204
Lrrtm4	0	0	0	7	0.116667	0.038848	1.005668	Unclassified	chr6:79966870-79974926	6.057
Dmd	0	0	0	421	7.016667	0.024246	0	Unclassified	chrX:80192208-82450389	2256.182
Dmc1	0	0	0	57	0.95	0.140325	3.442843	Unclassified	chr15:79391929-79437514	43.586
Gm88	0	0	0	193	3.216667	1.25915	4.16952	Unclassified	chr17:46389113-46394265	3.153
Dmp1	0	0	0	15	0.25	0.102159	1.399075	Unclassified	chr5:104629635-104643121	11.487
Tmc1	0	0	0	99	1.65	0.031467	0	Unclassified	chr19:20857947-21030692	170.746
Abcd1	0	0	0	481	8.016667	13.8046	19.94367	Unclassified	chrX:70959935-70983626	21.692
Phldb3	0	0	0	321	5.35	7.82283	6.562966	Unclassified	chr7:25394346-25414316	17.971
Lhx9	0	0	0	56	0.933333	1.6519	1.251261	Unclassified	chr1:140721762-140746156	22.395
Clec2l	0	0	0	41	0.683333	0.215151	1.984015	Unclassified	chr6:38611068-38630864	17.797
C1qtnf5	0	0	0	108	1.8	0.114814	1.09761	Elongating	chr9:43913328-43917270	1.943
Sgcz	0	0	0	387	6.45	0.080471	0	Unclassified	chr8:38585607-39726562	1138.956

Aldh1a1	0	0	0	23	0.383333	0.047297	0	Unclassified	chr19:20674471-20717952	41.482
Olr1	0	0	0	17	0.283333	0.043104	0	Unclassified	chr6:129435265-129459183	21.919
Olf1212	0	0	0	3	0.05	0.041078	3	Unclassified	chr2:88796624-88799560	0.937
Adamts9	0	0	0	86	1.433333	0.01274	0	Unclassified	chr6:92722692-92853435	128.744
Smr2	0	0	0	9	0.15	0	0	Unclassified	chr5:88513580-88538078	22.499
Sms	0	0	0	595	9.916667	6.81017	13.48269	Unclassified	chrX:153881885-153931978	48.094
Sstr1	0	0	0	14	0.233333	0.231788	0.212288	Unclassified	chr12:59310790-59317023	4.234
Sst	0	0	0	2	0.033333	0	1	Unclassified	chr16:23889666-23892930	1.265
Sstr2	0	0	0	6	0.1	0	5	Unclassified	chr11:113483570-113486950	1.381
Sstr5	0	0	0	12	0.2	0.061754	0.414824	Unclassified	chr17:25626819-25636198	7.38
Sstr4	0	0	0	11	0.183333	2.19684	2.240461	Unclassified	chr2:148219112-148222500	1.389
Dlgap4	0	0	0	578	9.633333	6.21262	19.65425	Unclassified	chr2:156544720-156590099	43.38
Irx6	0	0	0	7	0.116667	0.06462	0.700599	Unclassified	chr8:95196300-95203979	5.68
Umod1	0	0	0	100	1.666667	0.033038	1.100367	Unclassified	chr17:31089627-31147655	56.029
Pri3d3	0	0	0	1	0.016667	0.039889	0	Unclassified	chr13:27246667-27254389	5.723
Abi1	0	0	0	1004	16.73333	16.0476	29.94928	Unclassified	chr2:22795508-22897760	100.253
Ndufs6	0	0	0	317	5.283333	56.9298	9.613321	Unclassified	chr13:73457323-73467903	8.581
Taf9b	0	0	0	158	2.633333	2.02529	21.42845	Stalled	chrX:103402214-103417181	12.968
Tacr1	0	0	0	135	2.25	0.038288	0.542661	Unclassified	chr6:82350468-82510093	157.626
Gm5105	0	0	0	24	0.4	0.053882	0.912734	Unclassified	chr3:137711724-137732352	18.629
Gm5531	0	0	0	9	0.15	0.012661	0.234069	Unclassified	chr1:155719474-155724001	2.528
Prkaca	0	0	0	295	4.916667	12.56669	18.27359	Stalled	chr8:86494876-86520344	23.469
Zcchc11	0	0	0	1019	16.98333	6.77564	21.29903	Unclassified	chr4:108130030-108232020	99.991
Suv39h1	0	0	0	491	8.183333	11.6322	6.861791	Unclassified	chrX:7638296-7653886	13.591
Sva	0	0	0	1	0.016667	0	0	Unclassified	chr6:41986392-41992849	4.458
Olf1594	0	0	0	1	0.016667	0.027385	1	Unclassified	chr7:110366233-110369169	0.937
Ccdc85a	0	0	0	81	1.35	0.061863	0	Unclassified	chr11:28285691-28486296	198.606
Gm13023	0	0	0	1	0.016667	0.0238	0	Unclassified	chr4:143377236-143385487	6.252
Efemp1	0	0	0	41	0.683333	0	0.644571	Unclassified	chr11:28751204-28826743	73.54
AU015228	0	0	0	4	0.066667	0.785443	0.397953	Unclassified	chr2:129924129-129929111	2.983
Lhfp12	0	0	0	186	3.1	0.518784	3.039604	Unclassified	chr13:94825750-94965364	137.615
Olf1228	0	0	0	0	0	0	0	Unclassified	chr2:86322955-86325897	0.943
Grhl2	0	0	0	141	2.35	0.056901	0	Unclassified	chr15:37160790-37293321	130.532
Tpcn1	0	0	0	352	5.866667	2.40815	12.51131	Stalled	chr5:120984165-121040622	54.458
Ccdc104	0	0	0	303	5.05	6.8911	6.506473	Unclassified	chr11:29121535-29149272	25.738
Ssx2ip	0	0	0	99	1.65	1.44793	14.31544	Stalled	chr3:146065650-146103101	35.452
Gal3st4	0	0	0	73	1.216667	0.340472	0.177819	Unclassified	chr5:138706152-138715982	7.831
Trappc6b	0	0	0	556	9.266667	19.3079	21.0371	Unclassified	chr12:60144078-60164448	18.371
Aifm2	0	0	0	80	1.333333	2.16568	2.225734	Unclassified	chr10:61176010-61202008	23.999
Krtap7-1	0	0	0	0	0	0	0	Unclassified	chr16:89507948-89510568	0.621
Abca4	0	0	0	172	2.866667	0.024756	0	Unclassified	chr3:121745377-121882979	135.603
Dio3	0	0	0	4	0.066667	0.06861	2	Unclassified	chr12:111515439-111519307	1.869
Krtap16-10	0	0	0	1	0.016667	0	1	Unclassified	chr16:88962548-88965118	0.571
Trpm7	0	0	0	705	11.75	3.29764	54.40677	Stalled	chr2:126617293-126703997	84.705
Pmaip1	0	0	0	1328	22.13333	7.62668	5.976883	Unclassified	chr18:66616257-66625212	6.956
Kcnmb4	0	0	0	90	1.5	4.28042	6.576887	Unclassified	chr10:115854923-115912579	55.657
Cdc42ep5	0	0	0	14	0.233333	0.63785	0	Unclassified	chr7:4102861-4118301	13.441
Gm4906	0	0	0	1	0.016667	0	0	Unclassified	chrX:10902947-10905277	0.331
Calcr	0	0	0	55	0.916667	0.026763	1.209272	Unclassified	chr6:3635719-3716713	78.995
BC023829	0	0	0	87	1.45	4.05857	18.42652	Stalled	chrX:67713230-67732218	16.989
Olf1462	0	0	0	1	0.016667	0.041078	0	Unclassified	chr11:87702460-87705396	0.937
Spocd1	0	0	0	29	0.483333	0.041477	1.00545	Unclassified	chr4:129622964-129634357	9.394
Orm2	0	0	0	186	3.1	0.209232	1.630325	Elongating	chr4:63021482-63026911	3.343
Car8	0	0	0	72	1.2	0.062715	0.579706	Unclassified	chr4:8068639-8168188	97.55
2610018G03Rik	0	0	0	157	2.616667	4.51081	31.7458	Stalled	chrX:48192612-48245027	50.416
Crhbp	0	0	0	34	0.566667	0.678344	2.606301	Unclassified	chr13:96201330-96216786	13.457
Megf10	0	0	0	175	2.916667	0.066527	2.47715	Unclassified	chr18:57291128-57457120	163.993
Prkaa2	0	0	0	64	1.066667	0.123459	6.084453	Unclassified	chr4:104702254-104784503	80.25
Wdr20b	0	0	0	3	0.05	0.565311	2	Unclassified	chr12:66324503-66329441	2.939
Prss48	0	0	0	9	0.15	0	2.423086	Unclassified	chr3:85797731-85808413	8.683
Lce3f	0	0	0	1	0.016667	0.004314	1	Unclassified	chr3:92794147-92797348	1.202
Gm5465	0	0	0	121	2.016667	2.3799	9.724966	Unclassified	chr14:79849641-79854623	2.983
Ms4a5	0	0	0	17	0.283333	0	0.389952	Unclassified	chr19:11348355-11360303	9.949
Cpsf7	0	0	0	879	14.65	16.7017	17.62883	Unclassified	chr19:10597733-10622224	22.492
Sntg1	0	0	0	319	5.316667	0.033623	2.244647	Unclassified	chr1:8352741-9291811	937.071
Abcc6	0	0	0	112	1.866667	0.082719	12.03293	Stalled	chr7:53231749-53287656	53.908
Gtf3a	0	0	0	522	8.7	25.9382	7.351636	Unclassified	chr5:147758232-147767190	6.959
Srbd1	0	0	0	1267	21.11667	5.67053	15.32198	Unclassified	chr17:86384004-86546515	160.512
Dock1	0	0	0	479	7.983333	0.078933	1.027598	Unclassified	chr7:141860369-142365330	502.962
Tssk4	0	0	0	41	0.683333	0.362628	1.036232	Unclassified	chr14:56267018-56271369	2.352
Utp23	0	0	0	266	4.433333	6.42273	18.40207	Unclassified	chr15:51706986-51716168	7.183
Zfp579	0	0	0	63	1.05	4.57057	5.956126	Unclassified	chr7:4944453-4949703	3.251
Calhm1	0	0	0	13	0.216667	0	4.08978	Unclassified	chr19:47215524-47220664	3.141
1110018G07Rik	0	0	0	578	9.633333	7.12084	27.51665	Unclassified	chr12:86259098-86313836	52.739
Tspan11	0	0	0	85	1.416667	0.030365	1.328875	Unclassified	chr6:127835639-127903049	65.411
Cyp26c1	0	0	0	88	1.466667	1.02847	1.003993	Unclassified	chr19:37758169-37767797	7.629
Arsi	0	0	0	48	0.8	0.401699	4.021305	Unclassified	chr18:61069893-61077422	5.53
Espl1	0	0	0	499	8.316667	11.9602	10.21011	Unclassified	chr15:102124723-102154787	28.065
Cyfp1p1	0	0	0	715	11.91667	4.14044	11.42456	Unclassified	chr7:63095440-63188003	90.564
Klb	0	0	0	52	0.866667	0.040994	0.837688	Unclassified	chr5:65737649-65775242	35.594
Sema3c	0	0	0	61	1.016667	0.046558	0	Unclassified	chr5:17078633-17236085	155.453
Catsperb	0	0	0	75	1.25	0.017228	0.75114	Unclassified	chr12:102640882-102864219	221.338
Sema3e	0	0	0	83	1.383333	0.039176	2.988376	Unclassified	chr5:14023275-14256689	231.415
Centp	0	0	0	194	3.233333	10.5866	14.35055	Stalled	chr8:108368577-108377908	7.332
Dfnb59	0	0	0	6	0.1	0.231304	0	Unclassified	chr2:76486329-76496613	8.285
Sp9	0	0	0	34	0.566667	0.571707	0.102173	Unclassified	chr2:73107982-73113826	3.845

Gm1631	0	0	0	14	0.233333	0.079977	0.935746	Unclassified	chr2:71555473-71569023	11.551
Apol9b	0	0	0	7	0.116667	0.034248	0.512631	Unclassified	chr15:77557501-77566811	7.311
Defb10	0	0	0	1	0.016667	0	1	Unclassified	chr8:22967372-22972482	3.111
Olfr845	0	0	0	0	0	0	0	Unclassified	chr9:19140902-19143842	0.941
Cdrt4	0	0	0	25	0.416667	0.070906	0	Unclassified	chr11:62762694-62806597	41.904
Atp6v1c1	0	0	0	353	5.883333	13.3766	16.11096	Unclassified	chr15:38589658-38622199	30.542
Aqp11	0	0	0	112	1.866667	3.53828	7.208833	Unclassified	chr7:104874888-104888757	11.87
Lypd6b	0	0	0	126	2.1	0.022436	2.286706	Unclassified	chr2:49641205-49804366	161.162
Pitx2	0	0	0	44	0.733333	0.699524	0.670834	Unclassified	chr3:128900835-128922508	19.674
4930547C10Rik	0	0	0	6	0.1	0.02669	0	Unclassified	chr4:52607145-52625035	15.891
Toe1	0	0	0	433	7.216667	10.2027	8.940344	Unclassified	chr4:116476607-116482164	3.558
Rbm28	0	0	0	631	10.51667	11.9357	12.71391	Unclassified	chr6:29073572-29116724	41.153
Arih1	0	0	0	1421	23.68333	11.6789	29.73795	Unclassified	chr9:59236360-59336181	97.822
Setd3	0	0	0	912	15.2	13.343	10.45947	Unclassified	chr12:109344640-109419494	72.855
Tmprss11a	0	0	0	21	0.35	0.019294	0	Unclassified	chr5:86839434-86900015	58.582
Rps20	0	0	0	587	9.783333	609.344	5.946356	Unclassified	chr4:3761619-3764747	1.129
Sult1e1	0	0	0	9	0.15	0	1.353199	Unclassified	chr5:88004992-88022636	15.645
Olfr262	0	0	0	2	0.033333	0.013617	1	Unclassified	chr19:12315210-12318149	0.94
Olfr1436	0	0	0	1	0.016667	0.006758	1	Unclassified	chr19:12372674-12375620	0.947
Olfr235	0	0	0	0	0	0.006823	0	Unclassified	chr19:12340721-12343658	0.938
Olfr1454	0	0	0	1	0.016667	0	1	Unclassified	chr19:13135902-13138826	0.925
Stfa3	0	0	0	4	0.066667	0	0.562491	Unclassified	chr16:36450622-36457478	4.857
Olfr1472	0	0	0	1	0.016667	0	0	Unclassified	chr19:13528060-13531005	0.946
Olfr1459	0	0	0	1	0.016667	0	1	Unclassified	chr19:13220223-13223147	0.925
Gm941	0	0	0	221	3.683333	0.282677	0.538301	Unclassified	chr17:80704746-80788028	81.283
Fam82a1	0	0	0	282	4.7	1.00283	46.58931	Stalled	chr17:80012239-80081492	67.254
Stfa2	0	0	0	2	0.033333	0	0	Unclassified	chr16:36404031-36410449	4.419
Fbxo40	0	0	0	161	2.683333	0.183094	0.21283	Unclassified	chr16:36966158-36981222	13.065
Tdpoz1	0	0	0	1	0.016667	0.017848	0	Unclassified	chr3:93473254-93482205	6.952
V1rj3	0	0	0	0	0	0	0	Unclassified	chr7:13696637-13672564	0.928
Gdap1	0	0	0	13	0.216667	0.052178	3.593926	Unclassified	chr1:17133453-17154344	18.892
Gda	0	0	0	74	1.233333	0.134859	4.392358	Unclassified	chr19:21465796-21549151	81.356
Gm6878	0	0	0	8	0.133333	0.012702	1.915009	Unclassified	chr14:67923724-67935548	9.825
Hsd3b3	0	0	0	7	0.116667	0.023214	0	Unclassified	chr3:98545398-98568333	20.936
V1rh2	0	0	0	0	0	0	0	Unclassified	chr13:22193595-22196534	0.94
My17	0	0	0	17	0.283333	0.173781	0.411591	Unclassified	chr11:5796639-5800785	2.147
Taar1	0	0	0	0	0	0.025302	0	Unclassified	chr10:23638211-23641210	1
Olfr876	0	0	0	1	0.016667	0.020845	0	Unclassified	chr9:37609473-37612521	1.049
Hsd3b1	0	0	0	11	0.183333	0.017292	2.095087	Unclassified	chr3:98656119-98665717	7.599
Hsd3b2	0	0	0	6	0.1	0.035567	0	Unclassified	chr3:98515029-98530466	13.438
Serp2	0	0	0	73	1.216667	4.00616	6.547406	Unclassified	chr14:76932620-76958494	23.875
Dis3	0	0	0	669	11.15	8.98386	14.91875	Unclassified	chr14:99475852-99500989	23.138
Olfr874	0	0	0	1	0.016667	0	1	Unclassified	chr9:37551720-37554653	0.934
Prdm4	0	0	0	455	7.583333	5.6781	8.682576	Unclassified	chr10:85354712-85381690	24.979
V1rd16	0	0	0	3	0.05	0	2	Unclassified	chr7:24735405-24738373	0.969
Cenpv	0	0	0	136	2.266667	6.16519	13.05725	Stalled	chr11:62338446-62354763	14.318
Pigu	0	0	0	566	9.433333	10.8072	33.26373	Stalled	chr2:155103987-155185160	79.174
Zfp114	0	0	0	18	0.3	0.330331	7.939173	Unclassified	chr7:24958063-24967337	7.275
Pate2	0	0	0	3	0.05	0.011572	0.529633	Unclassified	chr9:35475223-35480474	3.252
Emx2	0	0	0	26	0.433333	0.152928	1.518292	Unclassified	chr19:59531179-59539847	6.669
Emx1	0	0	0	23	0.383333	0.054631	0.850386	Unclassified	chr6:85135924-85154457	16.534
En2	0	0	0	19	0.316667	0.311621	0.93956	Unclassified	chr5:28490235-28498706	6.472
Sic25a16	0	0	0	382	6.366667	3.88414	31.21439	Stalled	chr10:62381380-62409242	25.863
Zfp428	0	0	0	405	6.75	8.49956	33.09367	Stalled	chr7:25290105-25300700	8.596
Prrc1	0	0	0	534	8.9	9.4859	10.92251	Unclassified	chr18:57512394-57552373	37.98
Ccdc71	0	0	0	439	7.316667	11.8745	4.679688	Unclassified	chr9:108360848-108368276	5.429
Ecm2	0	0	0	69	1.15	0	0	Unclassified	chr13:49598178-49628158	27.981
Diablo	0	0	0	418	6.966667	7.97951	16.16154	Unclassified	chr5:123961338-123976173	12.836
Ube2n	0	0	0	937	15.61667	4.6256	24.12102	Unclassified	chr10:94975795-95008292	30.498
Trim13	0	0	0	96	1.6	0.646372	15.41539	Stalled	chr14:62216348-62224780	6.433
Fuca2	0	0	0	208	3.466667	5.91106	17.92246	Stalled	chr10:13218833-13237081	16.249
Olfr90	0	0	0	6	0.1	0.035657	1	Unclassified	chr17:37222135-37225181	1.047
Mrpl33	0	0	0	289	4.816667	34.1416	9.625676	Unclassified	chr5:31914323-31925016	8.694
Olfr1387	0	0	0	0	0	0	0	Unclassified	chr11:49271182-49274118	0.937
Olfr1384	0	0	0	1	0.016667	0.032293	0	Unclassified	chr11:49325141-49328098	0.958
Btn2a2	0	0	0	24	0.4	0.274973	0.724661	Unclassified	chr13:23568931-23582726	11.796
Olfr1392	0	0	0	2	0.033333	0.090572	2	Unclassified	chr11:49104824-49107760	0.937
Olfr1381	0	0	0	0	0	0.031788	0	Unclassified	chr11:49363250-49366186	0.937
Olfr1391	0	0	0	3	0.05	0.016509	2	Unclassified	chr11:49138914-49141850	0.937
Prps1	0	0	0	281	4.683333	15.3207	19.69538	Stalled	chrX:136989141-137010678	19.538
Prpf4b	0	0	0	676	11.26667	13.6278	20.03274	Unclassified	chr13:34965362-34994747	27.386
Prph2	0	0	0	53	0.883333	0.034086	0	Unclassified	chr17:47045433-47061875	14.443
Prph	0	0	0	18	0.3	0.148513	1.901406	Unclassified	chr15:98883604-98889409	3.806
Prh1	0	0	0	0	0	0	0	Unclassified	chr6:132517859-132522419	2.561
Prox1	0	0	0	45	0.75	0.120793	1.61647	Unclassified	chr1:191945657-191996559	48.903
Rorb	0	0	0	120	2	0.3079	1.798467	Unclassified	chr19:19011057-19187686	174.63
Sema6d	0	0	0	548	9.133333	2.83778	7.903591	Unclassified	chr2:124434031-124493505	57.475
Arhgef19	0	0	0	42	0.7	0.286736	0.562038	Unclassified	chr4:140796798-140813477	14.68
Trpm6	0	0	0	105	1.75	0.013783	2.942045	Unclassified	chr19:18822472-18967001	142.53
D030056L22Rik	0	0	0	383	6.383333	5.95319	22.31831	Unclassified	chr19:18785725-18792918	5.194
BC016495	0	0	0	339	5.65	2.91849	31.47144	Stalled	chr19:18704505-18726674	20.17
Tnfaip813	0	0	0	34	0.566667	0.063362	1.215196	Unclassified	chr9:53873412-53918218	42.807
Olfr957	0	0	0	2	0.033333	0	2	Unclassified	chr9:39318367-39321303	0.937
Sic5a12	0	0	0	23	0.383333	0.010895	0	Unclassified	chr2:110435454-110487926	50.473
Adam4	0	0	0	8	0.133333	0.074849	0.614639	Unclassified	chr12:82520535-82524865	2.331
Bace1	0	0	0	126	2.1	1.49729	0.80859	Unclassified	chr9:45644611-45670567	23.957

Snhg11	0	0	0	12	0.2	0.11455	0.487416	Unclassified	chr2:158199373-158211881	10.509
Lin52	0	0	0	771	12.85	1.47522	12.15749	Unclassified	chr12:85790457-85872483	80.027
Ptchd3	0	0	0	13	0.216667	0	0.549914	Unclassified	chr11:121689531-121704748	13.218
Fam161b	0	0	0	252	4.2	1.62214	29.78352	Stalled	chr12:85686266-85704771	16.506
4930432O21Rik	0	0	0	148	2.466667	3.16767	15.97177	Stalled	chr17:22097525-22131333	31.809
Adam22	0	0	0	246	4.1	0.119843	0.548101	Unclassified	chr5:8072351-8370081	295.731
Acot6	0	0	0	60	1	3.0151	6.977962	Unclassified	chr12:85439603-85450733	9.131
Olf1195	0	0	0	1	0.016667	0.030495	1	Unclassified	chr2:88522960-88525887	0.928
Olf1094	0	0	0	1	0.016667	0.025813	1	Unclassified	chr2:86666910-86669903	0.994
Calcoco2	0	0	0	10	0.166667	0.056426	0	Unclassified	chr11:95960639-95975276	12.638
Ube2i3	0	0	0	1304	21.73333	20.2226	6.892271	Unclassified	chr16:17152107-17203585	49.479
Ube2e1	0	0	0	620	10.33333	19.0652	12.0502	Unclassified	chr14:19115242-19166358	49.117
Ube2e3	0	0	0	523	8.716667	9.4316	24.0295	Unclassified	chr2:78707203-78760740	51.538
Apol10a	0	0	0	12	0.2	0.060067	0	Unclassified	chr15:77305476-77321499	14.024
Lax1	0	0	0	498	8.3	40.6318	3.584503	Unclassified	chr1:135575607-135588593	10.987
Dnajc19	0	0	0	555	9.25	8.30342	13.05919	Unclassified	chr3:33956679-33982248	23.57
Olf1093	0	0	0	2	0.033333	0	0	Unclassified	chr2:86623888-86626857	0.97
Mettl14	0	0	0	262	4.366667	5.62359	15.87899	Unclassified	chr3:123071212-123090908	17.697
Smtnl2	0	0	0	45	0.75	0.830326	3.395707	Unclassified	chr11:72203615-72227215	21.601
Arrdc1	0	0	0	509	8.483333	20.0666	24.89026	Unclassified	chr2:24780872-24792801	9.93
Stard13	0	0	0	170	2.833333	0.18834	0.948946	Unclassified	chr5:151840090-151994768	152.679
Ccdc92	0	0	0	186	3.1	1.83449	17.68136	Stalled	chr5:125314801-125344591	27.791
Tktl2	0	0	0	3	0.05	0.05657	0.342105	Unclassified	chr8:69033638-69037677	2.04
Kif3b	0	0	0	567	9.45	6.485	7.02433	Unclassified	chr2:153115151-153159123	41.973
Kif3a	0	0	0	102	1.7	1.27955	14.65949	Stalled	chr11:53378880-53417746	36.867
Lrrc8e	0	0	0	24	0.4	0.072726	0.944133	Unclassified	chr8:4224826-4237469	10.644
Ppapdc2	0	0	0	163	2.716667	5.29664	14.71532	Stalled	chr19:29036409-29041290	2.882
Kif21a	0	0	0	81	1.35	0.026153	0.594193	Unclassified	chr15:90763706-90882379	116.674
Tc2n	0	0	0	27	0.45	0.076412	1.46753	Unclassified	chr12:102886811-102958712	69.902
Kif2a	0	0	0	755	12.58333	5.61974	15.48706	Unclassified	chr13:107750666-107814194	61.529
Prkacb	0	0	0	513	8.55	7.39323	28.12496	Stalled	chr3:146392543-146477910	83.368
Rabif	0	0	0	654	10.9	7.38686	25.99656	Unclassified	chr1:136389236-136404461	13.226
Rdh10	0	0	0	271	4.516667	3.08184	12.35422	Stalled	chr1:16093962-16122631	26.67
Chuk	0	0	0	626	10.43333	5.80625	32.08474	Unclassified	chr19:44147823-44183967	34.145
Vsx2	0	0	0	45	0.75	0.076576	0.380872	Unclassified	chr12:85908801-85936407	25.607
38779	0	0	0	107	1.783333	0.042854	1.030667	Unclassified	chr1:72473685-72585138	109.454
Chrm3	0	0	0	335	5.583333	0.141595	2.379693	Unclassified	chr13:9875858-10362049	484.192
Chrm4	0	0	0	128	2.133333	0.372521	2.350585	Elongating	chr2:91760345-91769986	7.642
Gpr17	0	0	0	17	0.283333	0.074255	0.573176	Unclassified	chr18:32102667-32111290	6.624
Fam196b	0	0	0	2101	35.01667	0	0.735061	Unclassified	chr11:34212821-34322640	107.82
Hnrnp2	0	0	0	178	2.966667	19.5805	16.73457	Stalled	chrX:131133824-131141593	5.77
Zfp235	0	0	0	178	2.966667	3.24635	13.05523	Stalled	chr7:24917181-24928260	9.08
Mpp6	0	0	0	593	9.883333	8.58129	17.88667	Unclassified	chr6:50058239-50148597	88.359
38965	0	0	0	872	14.53333	26.9036	10.04254	Unclassified	chrX:34452239-34531452	77.214
Nme4	0	0	0	78	1.3	7.19401	12.21333	Stalled	chr17:26228689-26234415	3.727
Pap0lb	0	0	0	6	0.1	0.580213	1.716852	Unclassified	chr5:143003693-143008030	2.338
Helq	0	0	0	682	11.36667	4.79521	17.55988	Unclassified	chr5:101191166-101229619	36.454
Stx17	0	0	0	319	5.316667	1.55526	20.15424	Stalled	chr4:48135790-48199378	61.589
Hey2	0	0	0	11	0.183333	0.804817	4.914494	Unclassified	chr10:30552164-30564589	10.426
Olf1875	0	0	0	1	0.016667	0.072819	1	Unclassified	chr9:37578221-37581225	1.005
Cdc25c	0	0	0	272	4.533333	7.35715	14.02652	Unclassified	chr18:34892650-34913187	18.538
Pop1	0	0	0	670	11.16667	5.28127	12.30505	Unclassified	chr15:34423065-34460408	35.344
Gm5758	0	0	0	3	0.05	0	2	Unclassified	chrX:83573281-83576274	0.994
Rimbp2	0	0	0	217	3.616667	0.04208	0.943393	Unclassified	chr5:129266275-129461237	192.963
Camsap1	0	0	0	577	9.616667	2.74618	10.00392	Unclassified	chr2:25782357-25840802	56.446
Vmn2r25	0	0	0	7	0.116667	0.022453	0	Unclassified	chr6:123772831-123805208	30.378
Lcn11	0	0	0	7	0.116667	0	2.123387	Unclassified	chr2:25630536-25635798	3.263
Eif5a2	0	0	0	71	1.183333	0.942575	9.884454	Unclassified	chr3:28678232-28697768	17.537
Qsox2	0	0	0	422	7.033333	2.61098	11.39065	Unclassified	chr2:26064649-26094940	28.292
Pacrg	0	0	0	388	6.466667	0.539137	21.21772	Stalled	chr17:10595877-11035057	437.181
Ralb	0	0	0	270	4.5	11.3843	11.23533	Unclassified	chr1:121366882-121403359	34.478
Lrrc67	0	0	0	44	0.733333	0.059816	0.981442	Unclassified	chr1:9958706-10001211	40.506
Olf1735	0	0	0	0	0	0	0	Unclassified	chr14:50965050-50968115	1.066
170001L19Rik	0	0	0	25	0.416667	0.028355	1.323741	Unclassified	chr13:68734315-68753108	16.794
Olf1298	0	0	0	0	0	0	0	Unclassified	chr7:93637060-93640059	1
Olf1294	0	0	0	0	0	0.038182	0	Unclassified	chr7:93764146-93767153	1.008
Olf1293	0	0	0	2	0.033333	0	1	Unclassified	chr7:93810173-93813184	1.012
Olf1024	0	0	0	0	0	0	0	Unclassified	chr2:85744227-85747209	0.983
Olf1704	0	0	0	1	0.016667	0.08786	0	Unclassified	chr7:114006495-114009443	0.949
Ppbb	0	0	0	0	0	0.201738	0	Unclassified	chr5:91195543-91199086	1.544
Parva	0	0	0	165	2.75	0.054721	0.498446	Unclassified	chr7:119569219-119735202	163.984
Jph3	0	0	0	133	2.216667	0.10924	0.314777	Unclassified	chr8:124252462-124314721	60.26
As3mt	0	0	0	175	2.916667	4.32538	11.59281	Stalled	chr19:46779932-46815585	33.654
Pm20d1	0	0	0	35	0.583333	0.224467	0	Unclassified	chr1:133691971-133714692	20.722
Gpr119	0	0	0	4	0.066667	0	0	Unclassified	chrX:46021155-46029655	6.501
Foxn1	0	0	0	85	1.416667	0.081926	0	Unclassified	chr11:78171789-78202060	28.272
Olf1320	0	0	0	1	0.016667	0	1	Unclassified	chrX:47034680-47037640	0.961
Olf1321	0	0	0	3	0.05	0	1	Unclassified	chrX:47080149-47083109	0.961
Ubtfl1	0	0	0	6	0.1	0.019415	0	Unclassified	chr9:18206861-18215946	7.086
Crygd	0	0	0	2	0.033333	0	1	Unclassified	chr1:65108411-65112014	1.604
Pppde1	0	0	0	361	6.016667	4.20507	19.96976	Stalled	chr1:180115547-180182728	65.182
Zfhx3	0	0	0	384	6.4	0.149667	3.582472	Unclassified	chr8:111236543-111485536	246.994
Oxct2b	0	0	0	8	0.133333	0.455814	0.602557	Unclassified	chr4:122791490-122795243	1.754
Snord61	0	0	0	42	0.7	0.82686	8	Unclassified	chrX:54644624-54646686	0.063
Kcnn1	0	0	0	60	1	0.091953	1.481588	Unclassified	chr8:73365947-73382907	14.961
Olf1661	0	0	0	3	0.05	0.026701	2	Unclassified	chr7:111834530-111837490	0.961

Trim72	0	0	0	25	0.416667	0.082987	2.290065	Unclassified	chr7:135145891-135154906	7.016
Uggt1	0	0	0	2155	35.91667	12.0786	12.61043	Unclassified	chr1:36196873-36303147	104.275
Smapp1	0	0	0	307	5.116667	10.6119	28.75444	Stalled	chr1:23852465-23931128	76.664
Ext1	0	0	0	960	16	7.62478	42.04746	Stalled	chr15:52899817-53179738	277.922
Ext2	0	0	0	785	13.08333	8.98976	9.263088	Unclassified	chr2:93535787-93664725	126.939
Eya1	0	0	0	453	7.55	1.62337	9.92208	Unclassified	chr1:14159038-14302280	141.243
Eya2	0	0	0	182	3.033333	0.238544	2.790347	Unclassified	chr2:165478797-165597131	116.335
Iqcf1	0	0	0	4	0.066667	0.07282	0.781973	Unclassified	chr9:106400297-106404580	2.284
Fibcd1	0	0	0	79	1.316667	0.124015	2.161463	Unclassified	chr2:31668809-31703525	32.717
Gnat3	0	0	0	60	1	0.174669	0	Unclassified	chr5:17466387-17525486	57.1
Ppargc1b	0	0	0	1200	20	1.50854	10.80819	Unclassified	chr18:61457789-61562085	102.297
Vgll1	0	0	0	12	0.2	0.032392	0.597689	Unclassified	chrX:54339282-54358623	17.342
Lrp11	0	0	0	92	1.533333	1.49482	7.922078	Unclassified	chr10:7307597-7345273	35.677
C1rl	0	0	0	24	0.4	0.087262	3.248788	Unclassified	chr6:124441130-124460661	17.532
Clstn3	0	0	0	46	0.766667	0.195108	1.338511	Unclassified	chr6:124380773-124416802	34.03
Gm1568	0	0	0	14	0.233333	0.465992	0.965335	Unclassified	chr12:81856433-81863702	5.27
Prickle1	0	0	0	186	3.1	0.128634	3.219114	Unclassified	chr15:93329544-93428322	96.779
Prdm5	0	0	0	165	2.75	0.30543	7.146594	Unclassified	chr6:65726955-65886371	157.417
Mttr1	0	0	0	302	5.033333	3.89082	15.49564	Stalled	chrX:68615934-68672371	54.438
Stx7	0	0	0	811	13.51667	16.4476	8.380901	Unclassified	chr10:23867122-23908765	39.644
Vamp4	0	0	0	444	7.4	3.05825	25.4392	Unclassified	chr1:164498958-164529209	28.252
Nt5c3l	0	0	0	464	7.733333	22.0591	12.11724	Unclassified	chr11:100283634-100304403	18.77
Defa25	0	0	0	0	0	0	0	Unclassified	chr8:22222120-22224963	0.844
Ankrd34c	0	0	0	6	0.1	0.041427	1.509323	Unclassified	chr9:89623086-89635313	10.228
Ppp1r3f	0	0	0	346	5.766667	8.37054	9.650307	Unclassified	chrX:7135687-7153246	15.56
Otud5	0	0	0	654	10.9	35.6904	14.45205	Unclassified	chrX:7416956-7451984	33.029
Gripap1	0	0	0	288	4.8	15.2525	11.22399	Unclassified	chrX:7365120-7397689	30.57
Dusp8	0	0	0	47	0.783333	0.268721	1.065789	Unclassified	chr7:149267400-149278175	8.776
Fkbp1b	0	0	0	101	1.683333	1.007	3.742348	Unclassified	chr12:4839979-4850401	8.423
AI132487	0	0	0	59	0.983333	1.05495	1.207792	Unclassified	chr12:110087338-110095024	5.687
Cstf2	0	0	0	429	7.15	10.7804	16.19848	Unclassified	chrX:130591887-130621360	27.474
Ntsr2	0	0	0	9	0.15	0.057992	0.980286	Unclassified	chr12:16658275-16667042	6.768
Ntrk2	0	0	0	340	5.666667	0.129775	0.980792	Unclassified	chr13:58905956-59231328	32.323
Vasn	0	0	0	440	7.333333	4.83844	0.987026	Unclassified	chr16:4637944-4651166	11.223
Prrg3	0	0	0	6	0.1	0.010865	0.685262	Unclassified	chrX:69206359-69218067	9.709
Mobkl1b	0	0	0	611	10.18333	22.7005	19.71555	Unclassified	chr6:83274032-83290943	14.912
Gas2l3	0	0	0	397	6.616667	1.22444	19.59386	Unclassified	chr10:88871567-88908712	35.146
4930452B06Rik	0	0	0	213	3.55	0.074541	2.6537	Unclassified	chr14:9263685-9500804	235.12
Gm5424	0	0	0	4	0.066667	14.3934	4	Unclassified	chr10:61531769-61535319	1.551
Usp26	0	0	0	13	0.216667	0.012404	0	Unclassified	chrX:49107135-49156410	47.276
Defa26	0	0	0	0	0	0.064795	0	Unclassified	chr8:22726654-22729354	0.701
Tdrd1	0	0	0	54	0.9	0.033012	1.368957	Unclassified	chr19:56898698-56944502	43.805
Elmod1	0	0	0	29	0.483333	0.068879	2.861605	Unclassified	chr9:53759266-53825108	63.843
Pramel3	0	0	0	1	0.016667	0	0	Unclassified	chrX:131834854-131847173	10.32
Nlrp4c	0	0	0	25	0.416667	0.010639	0	Unclassified	chr7:5994762-6056751	59.99
Fastkd5	0	0	0	435	7.25	0	10.89362	Unclassified	chr2:130439573-130457763	16.191
Fitm1	0	0	0	14	0.233333	0.112424	1.09375	Unclassified	chr14:56192510-56195789	1.28
Gm5622	0	0	0	18	0.3	0	0	Unclassified	chr14:52170464-52282628	110.165
Slx	0	0	0	1	0.016667	0	0	Unclassified	chrX:25949784-25974691	22.908
5830418K08Rik	0	0	0	1207	20.11667	3.84908	21.8415	Unclassified	chr9:15121357-15164232	40.876
Foxi3	0	0	0	11	0.183333	0.191447	0.992544	Unclassified	chr6:70904599-70911059	4.461
Emi5	0	0	0	358	5.966667	1.29794	14.93056	Stalled	chr12:100024813-100141694	114.882
Fam154b	0	0	0	413	6.883333	1.13545	27.97274	Unclassified	chr7:89781469-89799038	15.57
Zyx	0	0	0	193	3.216667	6.92217	8.830748	Unclassified	chr6:42297826-42308394	8.569
Pwp1	0	0	0	392	6.533333	12.5136	7.578132	Unclassified	chr10:85332575-85351847	17.273
Fer114	0	0	0	92	1.533333	0.041986	1.104596	Unclassified	chr2:155844875-155880683	33.809
BC068281	0	0	0	122	2.033333	1.75481	7.956708	Unclassified	chr12:4848108-4859719	9.612
V1rh21	0	0	0	0	0	0	0	Unclassified	chr13:22417779-22420676	0.898
V1ri10	0	0	0	0	0	0	0	Unclassified	chr13:23189017-23191914	0.898
V1rh20	0	0	0	2	0.033333	0.042864	0	Unclassified	chr13:22943467-22946364	0.898
V1rh16	0	0	0	0	0	0	0	Unclassified	chr13:23323983-23326910	0.928
V1rh18	0	0	0	2	0.033333	0	1	Unclassified	chr13:22974956-22978030	1.075
V1rh13	0	0	0	0	0	0	0	Unclassified	chr13:23252511-23255450	0.94
V1rh14	0	0	0	0	0	0	0	Unclassified	chr13:23205702-23208599	0.898
V1rh11	0	0	0	2	0.033333	0	1	Unclassified	chr13:22613919-22616855	0.937
V1rh12	0	0	0	1	0.016667	0	1	Unclassified	chr13:23275496-23278393	0.898
Tusc2	0	0	0	281	4.683333	9.86685	11.72745	Unclassified	chr9:107463585-107468439	2.855
Gdpd4	0	0	0	71	1.183333	0.033617	0	Unclassified	chr7:105066467-105198173	129.707
A330021E22Rik	0	0	0	30	0.5	0.292268	0.746036	Unclassified	chr5:5580981-5666232	83.252
Gm606	0	0	0	23	0.383333	0.021967	1.226919	Unclassified	chr16:26957320-26992060	32.741
Igsf11	0	0	0	93	1.55	0.277963	1.753623	Unclassified	chr16:38900457-39027270	124.814
Hcn4	0	0	0	69	1.15	0.074239	1.077776	Unclassified	chr9:58669318-58708762	37.445
Hs3st5	0	0	0	182	3.033333	0.043727	1.294475	Unclassified	chr10:36224612-36554200	327.589
Exd2	0	0	0	351	5.853333	3.2854	35.59856	Stalled	chr12:81562081-81599122	35.042
Elavl4	0	0	0	60	1	0.038372	0.596472	Unclassified	chr4:109876341-109962116	83.776
Elavl3	0	0	0	118	1.966667	0.09945	1.241872	Unclassified	chr9:21819449-21858467	37.019
Fgf2	0	0	0	79	1.316667	0.903597	2.221752	Unclassified	chr3:37245574-37303752	56.179
Rsf1	0	0	0	1277	21.28333	3.25914	16.83424	Unclassified	chr7:104726405-104841291	112.887
Cdcp1	0	0	0	43	0.716667	0.039957	1.033291	Unclassified	chr9:123081402-123127156	43.755
Pkn2	0	0	0	782	13.03333	3.86907	49.48625	Stalled	chr3:142453865-142546968	91.104
Olfr1341	0	0	0	2	0.033333	0	1	Unclassified	chr4:118380013-118382952	0.94
Pms1	0	0	0	538	8.966667	2.85159	87.38197	Stalled	chr1:53246031-53355840	107.81
Csd8ap2	0	0	0	759	12.65	5.19588	17.88231	Unclassified	chr4:32700447-32740240	37.794
Cd8b1	0	0	0	31	0.516667	0.280583	1.059056	Unclassified	chr6:71270805-71287445	14.641
Cenph	0	0	0	331	5.516667	13.0203	15.08857	Unclassified	chr13:101529640-101547854	16.215
Ypel2	0	0	0	192	3.2	1.17499	8.34297	Unclassified	chr11:86749926-86809264	57.339

Rhox11	0	0	0	4	0.066667	0	1.76589	Unclassified	chrX:35429774-35440316	8.543
Ifitm5	0	0	0	28	0.466667	0.126536	1.346643	Unclassified	chr7:148134860-148138138	1.279
Uprrt	0	0	0	113	1.883333	8.41295	34.53037	Stalled	chrX:101676120-101701601	23.482
4930430D24Rik	0	0	0	2	0.033333	0.095437	0	Unclassified	chrX:35391375-35398291	4.917
Cln8	0	0	0	47	0.783333	0.647636	8.078047	Unclassified	chr8:14886535-14901719	13.185
Clec4a2	0	0	0	13	0.216667	0.06124	0.66313	Unclassified	chr6:123071333-123094017	20.685
Mctp1	0	0	0	438	7.3	0.218138	4.830322	Unclassified	chr13:76520408-77171071	648.664
Elov14	0	0	0	39	0.65	0.484363	6.575854	Unclassified	chr9:83672299-83701912	27.614
Scaf1	0	0	0	591	9.85	29.5199	3.233582	Unclassified	chr7:52258319-52273619	13.301
Cyp2c65	0	0	0	19	0.316667	0	0	Unclassified	chr19:39133495-39168438	32.944
Tsc22d4	0	0	0	435	7.25	40.6034	9.91735	Unclassified	chr5:138185223-138200975	13.753
2510002D24Rik	0	0	0	269	4.483333	11.8686	14.14364	Unclassified	chr16:18834672-18840206	3.535
Zfp777	0	0	0	469	7.816667	7.23691	8.977231	Unclassified	chr6:47974186-48000113	23.928
Tmem158	0	0	0	15	0.25	2.76528	1.572576	Unclassified	chr9:123168174-123171907	1.734
Boc	0	0	0	85	1.416667	0.271992	0.464378	Unclassified	chr16:44485157-44560983	73.827
P2ry10	0	0	0	282	4.7	6.76892	4.528308	Unclassified	chrX:104282673-104300309	15.637
Asprv1	0	0	0	7	0.116667	0.075341	0.840442	Unclassified	chr6:86576167-86579698	1.532
4930417M19Rik	0	0	0	89	1.483333	0.07448	2.252289	Unclassified	chr4:43278030-43386703	106.674
Ppp6c	0	0	0	365	6.083333	10.4111	18.81819	Unclassified	chr2:39052317-39083858	29.542
Tram111	0	0	0	5	0.083333	0.057627	2	Unclassified	chr3:124021954-124026178	2.225
Cd59b	0	0	0	14	0.233333	0.136724	1.179917	Unclassified	chr2:103909166-103925114	13.949
Zfp641	0	0	0	13	0.216667	0.163902	0.897961	Unclassified	chr15:98116552-98128514	9.963
2310002J15Rik	0	0	0	22	0.366667	0.065641	0.038462	Unclassified	chr2:25094338-25097417	1.08
Cd81	0	0	0	700	11.66667	61.9799	9.678164	Unclassified	chr7:150236654-150253835	15.182
Krtap1-3	0	0	0	0	0	0	0	Unclassified	chr11:99451776-99454653	0.878
Igfbp1b	0	0	0	3	0.05	0	0.260902	Unclassified	chr6:138605613-138608965	1.353
C030017K20Rik	0	0	0	22	0.366667	0.081171	0	Unclassified	chr4:154823678-154840514	14.837
Phactr3	0	0	0	232	3.866667	0.029679	0	Unclassified	chr2:177874721-178071196	194.476
Snora68	0	0	0	279	4.65	0	107	Unclassified	chr8:73419657-73421755	0.099
Lpxn	0	0	0	1365	22.75	44.3011	5.524727	Unclassified	chr19:12871098-12908298	35.201
Ppih	0	0	0	618	10.3	7.23341	8.269164	Unclassified	chr4:118972614-118995128	20.515
Hoxa13	0	0	0	11	0.183333	0.470052	0.339973	Unclassified	chr6:52208851-52212874	2.024
Tceal6	0	0	0	3	0.05	0.012837	1	Unclassified	chrX:131743225-131747226	2.002
Smpx	0	0	0	13	0.216667	0.027211	0	Unclassified	chrX:154135049-154190521	53.473
Tspan13	0	0	0	316	5.266667	19.3539	18.92382	Unclassified	chr12:36741141-36771065	27.925
G2e3	0	0	0	403	6.176667	2.47843	37.26357	Stalled	chr12:52447216-52477973	28.758
Pigy	0	0	0	326	5.433333	2.03653	22.08276	Unclassified	chr6:57634732-57644072	7.341
Olfr126	0	0	0	1	0.016667	0.024334	1	Unclassified	chr17:37985538-37988498	0.961
Olfr1225	0	0	0	0	0	0	0	Unclassified	chr2:89010431-89013367	0.937
Olfr1297	0	0	0	0	0	0.013617	0	Unclassified	chr2:111461290-111464229	0.94
Olfr1302	0	0	0	2	0.033333	0	1	Unclassified	chr2:111618469-111621417	0.949
Pard6b	0	0	0	138	2.3	1.74519	18.36066	Stalled	chr2:167904503-167926702	20.2
Xkr4	0	0	0	200	3.333333	0.042321	0.697256	Unclassified	chr1:3204562-3663579	457.018
Hoxc6	0	0	0	3	0.05	0.18516	0	Unclassified	chr15:102837992-102842312	2.321
Gp2	0	0	0	13	0.216667	0	0.567256	Unclassified	chr7:126586057-126604786	16.73
Cd320	0	0	0	166	2.766667	4.6697	16.06919	Stalled	chr17:33978035-33986719	6.685
Aqp3	0	0	0	21	0.35	0.468812	2.776364	Unclassified	chr4:41039756-41047216	5.461
Olfr112	0	0	0	3	0.05	0.024235	0	Unclassified	chr17:37700183-37708394	6.212
Olfr1500	0	0	0	4	0.066667	0	2	Unclassified	chr19:13901948-13904884	0.937
Olfr761	0	0	0	0	0	0.008136	0	Unclassified	chr17:38088995-38091967	0.973
Olfr119	0	0	0	2	0.033333	0.034991	0.798143	Unclassified	chr17:37831629-37838582	4.954
Cdh11	0	0	0	86	1.433333	0.333675	0	Unclassified	chr8:105156894-105311011	152.118
Pdzrn3	0	0	0	195	3.25	0.049942	0	Unclassified	chr6:101099600-101329891	228.292
Clec4b1	0	0	0	10	0.166667	0.030491	0.719692	Unclassified	chr6:122998023-123021562	21.54
Gm1673	0	0	0	5	0.083333	2.24419	4	Unclassified	chr5:34324122-34327654	1.533
Lace1	0	0	0	568	9.466667	2.44772	35.53568	Stalled	chr10:42032390-42200371	165.982
Olfr1490	0	0	0	1	0.016667	0.026953	1	Unclassified	chr19:13726935-13729886	0.952
Prss32	0	0	0	13	0.216667	0.061448	2.084791	Unclassified	chr17:23988738-23996743	6.006
Cd160	0	0	0	107	1.783333	0.102	0	Unclassified	chr3:96602685-96620444	15.76
Trim36	0	0	0	124	2.066667	0.228921	0.556886	Unclassified	chr18:46324955-46374261	47.307
Hoxa10	0	0	0	19	0.316667	0.259669	0.799464	Unclassified	chr6:52181197-52192853	9.657
Coq5	0	0	0	414	6.9	11.3414	9.905226	Unclassified	chr5:115727710-115746981	17.272
Cdk18	0	0	0	70	1.166667	0.740536	2.042953	Unclassified	chr1:134010123-134038262	26.14
Car13	0	0	0	173	2.883333	4.409	12.03809	Stalled	chr3:14639726-14663002	21.277
Hoxa1	0	0	0	18	0.3	0.300464	9.257453	Unclassified	chr6:52105365-52110316	2.952
Aqp2	0	0	0	10	0.166667	0.117664	0.359539	Unclassified	chr15:99407486-99414976	5.491
D10Wsu102e	0	0	0	450	7.5	12.7819	10.50392	Unclassified	chr10:82820965-82831580	8.616
Zfpm2	0	0	0	215	3.583333	0.066993	1.358113	Unclassified	chr15:40484587-40936138	449.552
Zfx	0	0	0	768	12.8	2.25915	16.23329	Unclassified	chrX:91319969-91370746	48.778
Zfy1	0	0	0	7	0.116667	0.006897	0	Unclassified	chrY:61649-135852	72.204
Zfy2	0	0	0	11	0.183333	0.006821	0	Unclassified	chrY:1362122-1428357	64.236
Igfbpl1	0	0	0	25	0.416667	0.089231	0.874658	Unclassified	chr4:45822378-45841699	17.322
2610036D13Rik	0	0	0	186	3.1	5.78826	1.493917	Unclassified	chr2:157807538-157837096	27.559
Zfp820	0	0	0	24	0.4	0.249904	1.117971	Unclassified	chr17:21953842-21984726	28.885
Arl5a	0	0	0	442	7.366667	4.39936	23.11196	Unclassified	chr2:52253470-52282394	26.925
Pde6c	0	0	0	92	1.533333	0.02478	0.720989	Unclassified	chr19:38205270-38258439	51.17
Pin1	0	0	0	7	0.116667	5.80634	0.214577	Unclassified	chr2:104554082-104558447	2.366
Secisbp2	0	0	0	1550	25.83333	10.3289	15.86858	Unclassified	chr13:51745082-51779015	31.934
Zmynd15	0	0	0	41	0.683333	0.227348	1.198717	Unclassified	chr11:70271123-70279701	6.579
Taar4	0	0	0	3	0.05	0.024552	2	Unclassified	chr10:23678299-23681343	1.045
Taar2	0	0	0	2	0.033333	0.037695	0	Unclassified	chr10:23656377-23661389	3.013
Tex24	0	0	0	2	0.033333	0.043492	0	Unclassified	chr8:28452865-28459659	4.795
Taar7b	0	0	0	0	0	0.014348	0	Unclassified	chr10:23717744-23720821	1.078
9230107M04Rik	0	0	0	11	0.183333	0	0.603222	Unclassified	chr7:14140214-14158416	16.203
Gnal1	0	0	0	548	9.133333	31.7866	11.91761	Unclassified	chr17:36114899-36126407	9.509
Ehmt1	0	0	0	1226	20.43333	7.54827	36.27905	Unclassified	chr2:24646293-24777110	128.818

Sesn2	0	0	0	462	7.7	11.3565	19.4585	Unclassified	chr4:132048721-132068371	17.651
Olfr809	0	0	0	2	0.033333	0.012954	0	Unclassified	chr10:129210926-129213913	0.988
Olfr554	0	0	0	1	0.016667	0.020136	1	Unclassified	chr7:109786761-109789715	0.955
Rbpj	0	0	0	1967	32.78333	4.71223	0.048734	Unclassified	chr5:53945017-54048684	101.668
Olfr129	0	0	0	1	0.016667	0.012876	0	Unclassified	chr17:38191543-38194536	0.994
Olfr110	0	0	0	5	0.083333	0	0	Unclassified	chr17:37627412-37636619	7.208
Olfr642	0	0	0	6	0.1	0	4	Unclassified	chr7:111197921-111200866	0.946
Olfr958	0	0	0	2	0.033333	0.027298	1	Unclassified	chr9:39357515-39360454	0.94
Olfr954	0	0	0	0	0	0.01353	0	Unclassified	chr9:39267017-39269962	0.946
Olfr135	0	0	0	2	0.033333	0	1	Unclassified	chr17:38343191-38346130	0.94
4732415M23Rik	0	0	0	205	3.416667	6.35799	51.59361	Stalled	chr8:125734757-125745945	9.189
Pawr	0	0	0	74	1.233333	0.616978	3.914686	Unclassified	chr10:107767244-107851447	82.204
Snora70	0	0	0	119	1.983333	3.56749	56	Unclassified	chrX:71515830-71517959	0.13
Snora69	0	0	0	100	1.666667	3.57176	52	Unclassified	chrX:34622906-34625028	0.123
Trim3	0	0	0	112	1.866667	1.81257	9.7603	Unclassified	chr7:112758983-112784013	23.031
I11b	0	0	0	18	0.3	0.386325	0.809366	Unclassified	chr2:129190315-129198856	6.542
D2Erd750e	0	0	0	396	6.6	10.5739	6.155734	Unclassified	chr2:118637738-118661947	22.21
Rbmx	0	0	0	308	5.133333	10.7259	13.89668	Unclassified	chrX:54639206-54648213	7.008
Pygm	0	0	0	296	4.933333	1.82363	1.459823	Elongating	chr19:6382428-6398459	14.032
Meig1	0	30.9346	0	25	0.416667	0.036307	1.159904	Unclassified	chr2:3326314-3341920	13.607
Irak1	0	0	0	443	7.383333	19.3464	5.42459	Unclassified	chrX:71259256-71271260	10.005
Hoxc12	0	0	0	8	0.133333	0.076016	0.285469	Unclassified	chr15:102765283-102768948	1.666
Higd1b	0	0	0	108	1.8	0	1.076988	Elongating	chr11:102695609-102699353	1.745
Gm11567	0	0	0	0	0	0.017691	0	Unclassified	chr11:99738500-99741543	1.044
Cma1	0	0	0	2	0.033333	0.131022	2	Unclassified	chr14:56560287-56565498	3.212
Tsga13	0	0	0	31	0.516667	0.673952	0.771768	Unclassified	chr6:30846980-30867573	18.594
Mcpt2	0	0	0	8	0.133333	0	0.548884	Unclassified	chr14:56658959-56663471	2.513
Mcpt1	0	0	0	2	0.033333	0	0	Unclassified	chr14:56634800-56639228	2.429
Mcpt4	0	0	0	5	0.083333	0.090528	1.221184	Unclassified	chr14:56678580-56683147	2.568
4930430A15Rik	0	0	0	11	0.183333	0.013946	0	Unclassified	chr2:111033410-111071757	36.348
Anapc1	0	0	0	1270	21.16667	11.8842	16.69762	Unclassified	chr2:128435818-128515131	77.314
Inhbb	0	0	0	17	0.283333	0.201725	1.832436	Unclassified	chr1:121312041-121320825	6.785
Usp49	0	0	0	456	7.6	2.653	2.785012	Elongating	chr17:47765638-47821016	53.379
A1661453	0	0	0	73	1.216667	0.107794	0.317314	Unclassified	chr17:47571587-47607587	34.001
Sic7a13	0	0	0	14	0.233333	0.036035	0.652053	Unclassified	chr4:19743873-19769380	23.488
Alox5	0	0	0	46	0.766667	0.068003	0.54999	Unclassified	chr6:116360088-116413196	51.109
Alox8	0	0	0	25	0.416667	0.188187	1.52621	Unclassified	chr11:68997386-69013341	13.956
Nmnat3	0	0	0	890	14.83333	5.42798	25.28844	Unclassified	chr9:98195001-98311847	114.847
Alox12e	0	0	0	12	0.2	0.105461	0.915317	Unclassified	chr11:70129114-70138020	6.907
Alox12	0	0	0	31	0.516667	0.197108	0.969314	Unclassified	chr11:70054956-70070843	13.888
Alox15	0	0	0	12	0.2	0.122111	0.99179	Unclassified	chr11:70157648-70167533	7.886
Alox12b	0	0	0	26	0.433333	0.021843	1.108509	Unclassified	chr11:68968573-68983293	12.721
Gm1679	0	0	0	6	0.1	0.09355	1	Unclassified	chr5:110781114-110785106	1.993
Rasef	0	0	0	27	0.45	0.014837	0	Unclassified	chr4:73360482-73438506	76.025
0610012H03Rik	0	0	0	153	2.55	0.059296	0.505761	Unclassified	chr2:105062498-105220017	155.52
Alk	0	0	0	625	10.41667	0.177583	3.258047	Unclassified	chr17:72218327-72955647	735.321
Hiat1	0	0	0	388	6.466667	8.52166	26.83562	Stalled	chr13:65166337-65216290	47.954
Afap1l2	0	0	0	143	2.383333	0.025158	2.454145	Unclassified	chr19:56986848-57084667	95.82
38780	0	0	0	330	5.5	15.9973	10.94452	Unclassified	chr19:37280034-37298945	16.912
Cacng8	0	0	0	47	0.783333	0.297669	0.311521	Unclassified	chr7:3392458-3415366	20.909
Cacng7	0	0	0	42	0.7	0.650103	1.314453	Unclassified	chr7:3334684-3366537	29.854
Zdjc	0	0	0	304	5.066667	15.4578	2.621869	Elongating	chr16:17145071-17148936	1.866
Olfr295	0	0	0	1	0.016667	0	1	Unclassified	chr7:93731786-93734716	0.931
Plk2	0	0	0	142	2.366667	1.74331	24.42507	Stalled	chr13:111183251-111191051	5.801
Als2cr12	0	0	0	46	0.766667	0.05283	1.384896	Unclassified	chr1:58714963-58754833	37.871
Zfp354a	0	0	0	15	0.25	0.063981	0	Unclassified	chr11:50870758-50886301	13.544
Hoxc13	0	0	0	7	0.116667	0.11589	0.625643	Unclassified	chr15:102749561-102759245	7.685
Large	0	0	0	382	6.366667	0.083835	3.595872	Unclassified	chr8:75338497-75878455	537.959
Sic6a19	0	0	0	33	0.55	0.042038	1.277446	Unclassified	chr13:73818604-73840143	19.54
Anpnp	0	0	0	33	0.55	0.116137	2.055669	Unclassified	chr7:86966690-86989238	20.549
4432412L15Rik	0	0	0	67	1.116667	0.36633	0.217841	Unclassified	chr8:86543372-86554194	8.823
Lats1	0	0	0	973	16.21667	3.08295	20.4606	Unclassified	chr10:7399006-7436259	35.254
Rsl24d1	0	0	0	406	6.766667	14.841	8.010434	Unclassified	chr9:72959275-72971140	9.866
Crtam	0	0	0	52	0.866667	0.027327	2.437525	Unclassified	chr9:40780880-40814669	31.79
Tas2r131	0	0	0	0	0	0	0	Unclassified	chr6:132906929-132909862	0.934
Tas2r129	0	0	0	1	0.016667	0	0	Unclassified	chr6:132899119-132902082	0.964
Tas2r130	0	0	0	1	0.016667	0	1	Unclassified	chr6:131579909-131582848	0.94
Zfhx2	0	0	0	156	2.6	0.907274	5.667487	Unclassified	chr14:55680495-55712885	30.391
Tas2r126	0	0	0	1	0.016667	0.041477	1	Unclassified	chr6:42382533-42385460	0.928
Pik3r4	0	0	0	441	7.35	8.10475	14.08209	Unclassified	chr9:105543324-105589985	44.662
Tas2r124	0	0	0	2	0.033333	0	1	Unclassified	chr6:132702747-132705677	0.931
Olfr466	0	0	0	2	0.033333	0.055302	2	Unclassified	chr13:65251533-65254460	0.928
4930473A06Rik	0	0	0	763	12.71667	1.29406	140.1213	Stalled	chr4:83169448-83510574	339.127
Olfr655	0	0	0	6	0.1	0.027681	2	Unclassified	chr7:111744767-111747693	0.927
Skil	0	0	0	1464	24.4	5.11036	7.374444	Unclassified	chr3:30991982-31021499	27.518
Olfr1156	0	0	0	1	0.016667	0	0	Unclassified	chr2:87789346-87792422	1.077
Sycp1	0	0	0	33	0.55	0.00372	4.031832	Unclassified	chr3:102622421-102742023	117.603
Udqln3	0	0	0	4	0.066667	0.01623	0	Unclassified	chr7:111289136-111293786	2.651
Fads6	0	0	0	23	0.383333	0.393393	1.746927	Unclassified	chr11:115144680-115160860	14.181
Ugqlnl	0	0	0	4	0.066667	0.027886	0.393756	Unclassified	chr7:111296772-111301070	2.299
Gm14092	0	0	0	6	0.1	0.077718	0.475286	Unclassified	chr2:145375190-145382718	5.529
Hbq1	0	0	0	4	0.066667	0.889337	4	Unclassified	chr11:32198068-32200873	0.806
Cep152	0	0	0	784	13.06667	4.7165	16.29161	Unclassified	chr2:125388823-125452849	62.027
Sftpb	0	0	0	191	3.183333	0.136853	0.050589	Unclassified	chr6:72251241-72264364	11.124
Npvf	0	0	0	4	0.066667	0	0	Unclassified	chr6:50600869-50606392	3.524
Tek	0	0	0	83	1.383333	0.055	2.556786	Unclassified	chr4:94403990-94541630	135.641

Tectb	0	0	0	21	0.35	0.112878	0.863296	Unclassified	chr19:55253374-55270803	15.43
Tef	0	0	0	393	6.55	5.33269	20.03506	Unclassified	chr15:81639843-81657291	15.449
Tec	0	0	0	1029	17.15	3.10001	30.93962	Unclassified	chr5:73146961-73261687	112.727
Olfr665	0	0	0	0	0	0	0	Unclassified	chr7:112027222-112030173	0.952
Wbscr25	0	0	0	14	0.233333	0.077713	1.036879	Unclassified	chr5:135463302-135479220	13.919
Thoc4	0	0	0	716	11.93333	62.0116	6.699077	Unclassified	chr11:120455829-120461679	3.851
Ccdc39	0	0	0	167	2.783333	0.323167	0.315906	Unclassified	chr3:33711282-33745232	31.951
Olfr926	0	0	0	0	0	0	0	Unclassified	chr9:38682762-38685689	0.928
Ccdc122	0	0	0	216	3.6	1.94326	54.74657	Stalled	chr14:77434578-77512011	75.434
Tekt1	0	0	0	29	0.483333	0.237002	1.609681	Unclassified	chr11:72158221-72177382	17.162
Fam116a	0	0	0	703	11.71667	3.92502	37.78598	Unclassified	chr14:27397035-27451583	52.549
Capn6	0	0	0	12	0.2	0.021643	1.414811	Unclassified	chrX:140236779-140263955	25.177
Capn7	0	0	0	743	12.38333	8.03205	26.89729	Unclassified	chr14:32147909-32185169	35.261
Capn2	0	0	0	494	8.233333	8.55405	10.38176	Unclassified	chr1:184397389-184449614	50.226
Capns1	0	0	0	242	4.033333	63.2631	5.516993	Unclassified	chr7:30971960-30982067	8.108
Rnf44	0	0	0	815	13.58333	20.7158	7.716954	Unclassified	chr13:54780761-54791561	8.801
Trim6	0	0	0	54	0.9	0.365009	6.577906	Unclassified	chr7:111365308-111383666	16.359
Rufy2	0	0	0	790	13.16667	2.10181	6.421092	Unclassified	chr10:62440970-62481490	38.521
Nkx2-6	0	0	0	10	0.166667	0.586903	0.218953	Unclassified	chr14:69788075-69793597	3.523
Pilrb2	0	0	0	3	0.05	0.071093	0	Unclassified	chr5:138307056-138314986	5.931
Nos1ap	0	0	0	344	5.733333	1.09852	4.963632	Unclassified	chr1:172247626-172521980	272.355
Phkg1	0	0	0	112	1.866667	0.250667	5.568063	Unclassified	chr5:130339310-130356954	15.645
9530003J23Rik	0	0	0	8	0.133333	0.073597	1.701299	Unclassified	chr10:116670808-116677737	4.93
Nkx2-5	0	0	0	12	0.2	0.277519	0.576247	Unclassified	chr17:26975609-26980510	2.902
Rngtt	0	0	0	1286	21.43333	3.51921	23.98023	Unclassified	chr4:33395285-33589585	192.301
Olfr1229	0	0	0	1	0.016667	0	1	Unclassified	chr2:89122352-89125288	0.937
Olfr1467	0	0	0	2	0.033333	0	1	Unclassified	chr19:13437119-13440046	0.928
Phtf1	0	0	0	854	14.23333	0	28.30649	Unclassified	chr3:103770180-103811411	39.232
Lzts2	0	0	0	61	1.016667	0.530624	3.011019	Unclassified	chr19:45087665-45101594	11.93
Fam178a	0	0	0	685	11.41667	4.91334	30.43605	Unclassified	chr19:45003608-45058277	52.67
Hoxd1	0	0	0	5	0.083333	0.185652	1.103666	Unclassified	chr2:74599036-74603199	2.164
Tmem126b	0	0	0	218	3.633333	8.22042	63.3919	Stalled	chr7:97617338-97626505	7.168
Mobkl1a	0	0	0	716	11.93333	2.14593	43.12986	Unclassified	chr5:89147895-89187480	37.586
Ces3	0	0	0	19	0.316667	0.039114	0.657637	Unclassified	chr8:95689970-95723703	31.734
Spats2l	0	0	0	167	2.783333	0.033174	1.034593	Unclassified	chr1:57829704-58005241	173.538
Pfdn1	0	0	0	378	6.3	25.0399	13.09363	Unclassified	chr18:36563332-36616149	50.818
Oas1f	0	0	0	14	0.233333	0.172981	0.933075	Unclassified	chr5:121295375-121307994	10.62
Ube2t	0	0	0	195	3.25	12.59	33.27676	Stalled	chr1:136857153-136870714	11.562
Zcrb1	0	0	0	483	8.05	24.4146	17.57599	Unclassified	chr15:93216543-93230721	12.179
Sic7a8	0	0	0	90	1.5	1.07659	3.835589	Unclassified	chr14:55341051-55402723	59.673
Lrp2bp	0	0	0	114	1.9	0.082444	0.887323	Unclassified	chr8:47093955-47114830	18.876
Prdm12	0	0	0	32	0.533333	0.798607	0.659517	Unclassified	chr2:31493556-31511315	15.76
Map3k10	0	0	0	208	3.466667	5.84463	15.78185	Stalled	chr7:28441395-28461617	18.223
Gm12769	0	0	0	4	0.066667	0	2	Unclassified	chr7:34526817-34530122	1.306
Gm996	0	0	0	66	1.1	1.02334	1.15917	Unclassified	chr2:25430935-25437619	4.685
Cdca71	0	0	0	463	7.716667	7.30911	22.15125	Unclassified	chr12:119080333-119117179	34.847
Nudt2l	0	0	0	404	6.733333	24.5377	13.8626	Unclassified	chr8:96543302-96562939	17.638
1700123K08Rik	0	0	0	4	0.066667	0.024482	0.481328	Unclassified	chr5:139003067-139007922	2.856
S100z	0	0	0	1	0.016667	0.128163	0	Unclassified	chr13:96247255-96250610	1.356
Rab1b	0	0	0	287	4.783333	36.018	5.944731	Unclassified	chr19:5099206-5108996	7.791
Tmbim4	0	0	0	285	4.75	33.6847	6.855713	Unclassified	chr10:119643881-119661953	16.073
1110021L09Rik	0	0	0	48	0.8	0.298159	1.199616	Unclassified	chr10:23514791-23547774	30.984
Arpm1	0	0	0	16	0.266667	0.33851	2.076035	Unclassified	chr3:30495994-30500792	2.799
Pldc2	0	0	0	192	3.2	0.767669	1.3502	Unclassified	chr2:16275948-16673742	395.795
Cd9912	0	0	0	261	4.35	3.62829	12.11557	Stalled	chrX:68673244-68747820	72.577
Acad8	0	0	0	118	1.966667	2.1985	26.5619	Stalled	chr9:26781725-26809134	25.41
Gm5142	0	0	0	6	0.1	0	1.655884	Unclassified	chr14:59777339-59799586	20.248
Dusp28	0	0	0	302	5.033333	8.35272	10.67276	Unclassified	chr1:94801565-94805197	1.633
Ilkap	0	0	0	856	14.26667	35.3045	9.521612	Unclassified	chr1:93272407-93297360	22.954
C1qtnf4	0	0	0	51	0.85	4.72149	0.327227	Unclassified	chr2:90723942-90730683	4.742
Gdi1	0	0	0	226	3.766667	36.0602	14.53604	Unclassified	chrX:71548350-71557206	6.857
Gdf9	0	0	0	11	0.183333	0.071044	0	Unclassified	chr11:53244787-53251404	4.618
Nfe2l3	0	0	0	300	5	0.690187	0.312675	Unclassified	chr6:51380668-51408767	26.1
Olfr824	0	0	0	0	0	0	0	Unclassified	chr10:129563163-129566111	0.949
Olfr823	0	0	0	0	0	0	0	Unclassified	chr10:129548896-129551844	0.949
Gdf11	0	0	0	127	2.116667	4.01911	1.816378	Elongating	chr10:128321601-128330774	7.174
Gdf10	0	0	0	10	0.166667	0.061298	0	Unclassified	chr14:34734772-34748468	11.697
Olfr815	0	0	0	0	0	0.013445	0	Unclassified	chr10:129338831-129341782	0.952
Olfr816	0	0	0	1	0.016667	0	0	Unclassified	chr10:129348393-129351332	0.94
Olfr822	0	0	0	0	0	0	0	Unclassified	chr10:129509467-129512406	0.94
Olfr740	0	0	0	0	0	0.009646	0	Unclassified	chr14:51070728-51073662	0.935
Olfr736	0	0	0	0	0	0.054596	0	Unclassified	chr14:51010432-51013371	0.94
Gdi2	0	0	0	1074	17.9	74.1721	11.67602	Unclassified	chr13:3535320-3565507	28.188
Pou2f3	0	0	0	112	1.866667	0.007617	0.425766	Unclassified	chr9:42932021-43015838	81.818
5330437I02Rik	0	0	0	54	0.9	0.104385	2.106194	Unclassified	chr18:65855921-65911191	53.271
Tdrd12	0	0	0	36	0.6	0.031626	1.699695	Unclassified	chr7:36278628-36324763	44.136
Neil3	0	0	0	280	4.666667	7.08147	13.75039	Stalled	chr8:54672220-54726419	52.2
Tmcc3	0	0	0	430	7.166667	1.94576	5.351484	Unclassified	chr10:93975601-94053699	76.099
Ifna1	0	0	0	2	0.033333	0.099135	1	Unclassified	chr4:88493990-88496560	0.571
Arl2bp	0	0	0	396	6.6	23.7227	8.750455	Unclassified	chr8:97188654-97198322	7.669
Ifna11	0	0	0	3	0.05	0	2	Unclassified	chr4:88463822-88466469	0.648
Ifna2	0	0	0	2	0.033333	0.067101	1	Unclassified	chr4:88329110-88331683	0.574
Gm5065	0	0	0	8	0.133333	0.05177	0	Unclassified	chr7:5300142-5312283	10.142
Ifna5	0	0	0	1	0.016667	0.027056	1	Unclassified	chr4:88479428-88481998	0.571
Itga10	0	0	0	69	1.15	0.858544	4.352518	Unclassified	chr3:96447506-96468442	18.937
Fam19a2	0	0	0	268	4.466667	0.142352	1.284659	Unclassified	chr10:122699131-123178035	476.905

Mon1a	0	0	0	232	3.866667	9.47443	14.01047	Stalled	chr9:107788459-107805470	15.012
Tgif2	0	0	0	489	8.15	3.33666	6.174507	Unclassified	chr2:156663812-156681267	15.456
Lmx1a	0	0	0	134	2.233333	0.065272	1.658173	Unclassified	chr1:169617688-169778864	159.177
Snrbp2	0	0	0	226	3.766667	15.22	8.489706	Unclassified	chr2:142886804-142897788	8.985
Mark4	0	0	0	388	6.466667	7.93085	6.390628	Unclassified	chr7:20011423-20045843	32.421
Bloc1s3	0	0	0	417	6.95	4.95384	9.20174	Unclassified	chr7:20091152-20095680	2.529
Gm14139	0	0	0	5	0.083333	0.035085	1.55641	Unclassified	chr2:150005490-150019015	11.526
C79127	0	0	0	13	0.216667	0.26717	1.548868	Unclassified	chr7:19862155-19867398	3.244
Klc3	0	0	0	146	2.433333	2.52448	0.400369	Unclassified	chr7:19979788-19987205	5.418
Olfr1431	0	0	0	2	0.033333	0	1	Unclassified	chr19:12282057-12284996	0.94
Olfr463	0	0	0	4	0.066667	0	2	Unclassified	chr11:87706488-87709424	0.937
Scrg1	0	0	0	17	0.283333	0.054927	0	Unclassified	chr8:59932719-59956382	21.664
Mblac1	0	0	0	156	2.6	11.4457	10.67647	Unclassified	chr5:138633541-138636628	1.088
Olfr1420	0	0	0	3	0.05	0.124029	2	Unclassified	chr19:11968512-11971442	0.931
Nhirc2	0	0	0	856	14.26667	6.19848	14.56144	Unclassified	chr9:56620750-56673336	50.587
Abcb7	0	0	0	441	7.35	3.30991	49.65251	Stalled	chrX:101475903-101611185	133.283
Psg21	0	0	0	7	0.116667	0.004884	1.388052	Unclassified	chr7:19232002-19244074	10.073
Sec1414	0	0	0	27	0.45	0.030494	0.796725	Unclassified	chr11:3929784-3948012	16.229
Wwc2	0	0	0	339	5.65	1.12135	6.819471	Unclassified	chr8:48912963-49077905	162.943
Vcam1	0	0	0	17	0.283333	0.082978	1.108999	Unclassified	chr3:115812937-115834606	19.67
Cyp3a25	0	0	0	8	0.133333	0.031948	0.817827	Unclassified	chr5:146788769-146823193	32.425
Mrps11	0	0	0	293	4.883333	19.731	12.09455	Unclassified	chr7:85926016-85937874	9.859
Sfrs6	0	0	0	934	15.56667	45.3483	8.727773	Unclassified	chr2:162755243-162762854	5.612
Nudt12	0	0	0	10	0.166667	0.595847	4.391744	Unclassified	chr17:59140823-59154745	11.923
4921515J06Rik	0	0	0	23	0.383333	0.061088	0.992291	Unclassified	chr3:108741001-108763694	20.694
4921524J17Rik	0	0	0	391	6.516667	5.8492	26.33385	Unclassified	chr8:87932657-87958740	24.084
4921510H08Rik	0	0	0	2	0.033333	0	1	Unclassified	chr10:97153692-97157560	1.869
Ggh	0	0	0	50	0.833333	5.25717	6.581688	Unclassified	chr4:19967198-19993258	24.061
Sic22a14	0	0	0	26	0.433333	0.069971	0.475429	Unclassified	chr9:119078573-119101511	20.939
D9Ert402e	0	0	0	325	5.416667	1.68278	53.31769	Stalled	chr9:122712664-122745449	30.786
2010015L04Rik	0	0	0	75	1.25	0.645499	2.662461	Unclassified	chr4:154781298-154817219	33.922
Hfe	0	0	0	76	1.266667	0.729384	8.291231	Unclassified	chr13:23795709-23804680	6.972
Morc4	0	0	0	17	0.283333	0.06299	0.772963	Unclassified	chrX:136357384-136408047	48.664
Cdk1	0	0	0	1020	17	12.7677	5.392992	Unclassified	chr10:68799382-68817660	16.279
Cdc25a	0	0	0	935	15.58333	15.8415	6.422907	Unclassified	chr9:109776082-109796394	18.313
Sic30a9	0	0	0	550	9.166667	6.16456	73.26358	Stalled	chr5:67696195-67747384	49.19
Gadl1	0	0	0	211	3.516667	0.05615	0.443438	Unclassified	chr9:115816572-115985294	166.723
Cdc73	0	0	0	839	13.98333	7.1582	25.90781	Unclassified	chr1:145454628-145551814	95.187
Ccdc116	0	0	0	93	1.55	0.44908	1.887749	Elongating	chr16:17139157-17146516	5.36
Sfrs8	0	0	0	1928	32.13333	20.345	8.534947	Unclassified	chr5:130005105-130077259	70.155
Rab36	0	0	0	60	1	0.542982	4.859961	Unclassified	chr10:74497833-74516845	17.013
Cdc37	0	0	0	476	7.933333	86.121	5.112399	Unclassified	chr9:20942984-20956350	11.367
Myef2	0	0	0	534	8.9	11.1463	7.207022	Unclassified	chr2:124913477-124951396	35.92
Larp1	0	0	0	2738	45.63333	42.845	6.563523	Unclassified	chr11:57820565-57875532	52.968
Rsph3b	0	0	0	89	1.483333	9.08811	49.33265	Stalled	chr17:7109064-7154705	43.642
Lrriq3	0	0	0	204	3.4	1.36372	92.80695	Stalled	chr3:154754397-154857242	100.846
Ccdc25	0	0	0	563	9.383333	8.1233	13.81203	Unclassified	chr14:66454138-66485441	29.304
Clvs1	0	0	0	141	2.35	0.004418	0.567847	Unclassified	chr4:9194508-9378838	182.331
Kdr	0	0	0	54	0.9	0.404701	0.464038	Unclassified	chr5:76329298-76376453	45.156
Kera	0	0	0	6	0.1	0.013145	0	Unclassified	chr10:97067838-97076322	6.485
Ovgp1	0	0	0	47	0.783333	0.152273	3.690641	Unclassified	chr3:105774719-105790341	13.623
Chgb	0	0	0	21	0.35	0.112547	1.984184	Unclassified	chr2:132605013-132620808	13.796
Chga	0	0	0	39	0.65	0.430427	1.033657	Unclassified	chr12:103791178-103803237	10.06
Chi313	0	35.92405	0	18	0.3	0.095525	0.558966	Unclassified	chr3:105950472-105972482	20.011
Chi311	0	0	0	22	0.366667	0.05318	0	Unclassified	chr1:136076980-136086606	7.627
Ttc9	0	0	0	39	0.65	0.194567	0.468192	Unclassified	chr12:82730355-82765928	33.574
Act19	0	0	0	3	0.05	0	0	Unclassified	chr17:33567843-33571212	1.37
Nup35	0	0	0	201	3.35	3.19113	9.40375	Unclassified	chr2:80476972-80499059	20.088
Rgs7bp	0	0	0	82	1.366667	0.644213	2.349644	Unclassified	chr13:105737232-105847010	107.779
Psg26	0	0	0	2	0.033333	0.015002	0	Unclassified	chr7:19059930-19071498	9.569
Elf4	0	0	0	920	15.33333	7.62239	1.300031	Elongating	chrX:45764225-45818309	52.085
Cib2	0	0	0	35	0.583333	1.5498	4.00273	Unclassified	chr9:54393158-54409886	14.729
Ruvbl1	0	0	0	686	11.43333	25.0918	6.248646	Unclassified	chr6:88413416-88447560	32.145
Srpk3	0	0	0	417	6.95	7.12218	2.107045	Elongating	chrX:71017760-71024263	4.504
Inhbe	0	0	0	22	0.366667	0.21594	0.16388	Unclassified	chr10:126786457-126790828	2.372
Inhbc	0	0	0	12	0.2	0.026076	1.784769	Unclassified	chr10:126793383-126809600	14.218
Sic5a7	0	0	0	10	0.166667	0.030015	0	Unclassified	chr17:54412914-54438487	23.574
Inhba	0	0	0	17	0.283333	0.352051	0.439001	Unclassified	chr13:16104307-16119044	12.738
Inha	0	0	0	8	0.133333	0.035041	0	Unclassified	chr1:75501651-75506929	3.279
Xirp2	0	0	0	41	0.683333	0.007504	0.665569	Unclassified	chr2:67282058-67364663	80.606
Sic9a5	0	0	0	188	3.133333	2.48327	8.771314	Unclassified	chr8:107870157-107893781	21.625
Olfr544	0	0	0	22	0.366667	0.037918	1.114859	Unclassified	chr7:109632627-109638821	4.195
Olfr106	0	0	0	1	0.016667	0.009554	0	Unclassified	chr17:37529474-37532455	0.982
Olfr128	0	0	0	1	0.016667	0.014218	1	Unclassified	chr17:38058512-38061439	0.928
Cyp2w1	0	0	0	60	1	0	0.31993	Unclassified	chr5:139826570-139832987	4.418
Mtmt14	0	0	0	1317	21.95	26.0322	7.61225	Unclassified	chr6:113185836-113231386	43.551
Olfr299	0	0	0	0	0	0.025813	0	Unclassified	chr7:93611922-93614915	0.994
Mfsd6l	0	0	0	20	0.333333	0.149316	1.352358	Unclassified	chr11:68367687-68371747	2.061
Krtap1-5	0	0	0	3	0.05	0	1	Unclassified	chr11:99441290-99444330	1.041
Tmbim1	0	0	0	266	4.433333	4.52785	5.577542	Unclassified	chr1:74334821-74352910	16.09
2310061I04Rik	0	0	0	328	5.466667	10.9338	4.804869	Unclassified	chr17:36029621-36036323	4.703
Dedd	0	0	0	495	8.25	10.3635	12.62314	Unclassified	chr1:173257275-173272632	13.358
Cd40lg	0	0	0	10	0.166667	0.030759	1.217921	Unclassified	chrX:54463319-54477219	11.901
Pglyrp1	0	0	0	24	0.4	2.14546	2.835821	Unclassified	chr7:19468038-19475787	5.75
Caln1	0	0	0	386	6.433333	0.069627	0	Unclassified	chr5:130843327-131316515	471.189
Cd27	0	0	0	98	1.633333	0.7075	1.001961	Elongating	chr6:125182639-125189045	4.407

Tnfsf11	0	0	0	44	0.733333	0.521828	1.832784	Unclassified	chr14:78677252-78709850	30.599
Tnfrsf9	0	0	0	70	1.166667	0.309046	1.434692	Unclassified	chr4:150292263-150320211	25.949
Tnfsf8	0	0	0	102	1.7	0.661525	1.569744	Unclassified	chr4:63493857-63524318	28.462
Cd70	0	0	0	20	0.333333	1.29381	2.125106	Unclassified	chr17:57285419-57291200	3.782
Prr3	0	0	0	542	9.033333	18.7958	13.60071	Unclassified	chr17:36109483-36118412	6.93
Svip	0	0	0	18	0.3	1.46105	3.080188	Unclassified	chr7:59252531-59263388	8.858
Dusp18	0	0	0	30	0.5	0.426021	6.476312	Unclassified	chr11:3793242-3801299	6.058
Pvr	0	0	0	295	4.916667	4.04813	8.09946	Unclassified	chr7:20488928-20508492	17.565
Olfir1045	0	0	0	0	0	0.046503	0	Unclassified	chr2:86037959-86040907	0.949
Pebp1	0	0	0	179	2.983333	43.5969	5.792199	Unclassified	chr5:117732659-117739573	4.915
Gm11564	0	0	0	1	0.016667	0.037095	1	Unclassified	chr11:99676289-99678980	0.692
Msr1	0	0	0	23	0.383333	0.243561	0	Unclassified	chr8:40667053-40730032	60.98
Rad54b	0	0	0	508	8.466667	2.01234	33.74757	Stalled	chr4:11484118-11542954	56.837
9030625A04Rik	0	0	0	187	3.116667	4.56082	18.91541	Stalled	chr14:77424007-77438424	12.418
Evi5	0	0	0	527	8.783333	1.01673	0.397087	Unclassified	chr5:108173813-108306126	130.314
Mefv	0	0	0	23	0.383333	0.182321	1.841323	Unclassified	chr16:3707215-3720124	10.91
Evpl	0	0	0	85	1.416667	0.234372	3.157995	Unclassified	chr11:116081872-116101405	17.534
Unc5d	0	0	0	312	5.2	0.065294	1.949906	Unclassified	chr8:29757188-30332108	572.921
Evx1	0	0	0	13	0.216667	0.066821	1.426944	Unclassified	chr6:52261491-52268372	4.882
Evx2	0	0	0	11	0.183333	0.251051	0.955707	Unclassified	chr2:74493672-74499476	3.805
Scap	0	0	0	1017	16.95	18.7651	5.84488	Unclassified	chr9:110233796-110287450	51.655
Plekha8	0	0	0	55	0.916667	0.702566	0.444889	Unclassified	chr6:54551140-54595814	42.675
Klrb1a	0	0	0	5	0.083333	0.044354	0.760608	Unclassified	chr6:128559244-128574952	13.709
Chmp5	0	0	0	354	5.9	10.9628	35.37299	Stalled	chr4:40893585-40912335	16.751
Aen	0	0	0	806	13.433333	19.7366	3.909797	Unclassified	chr7:86038812-86053719	12.908
2700062C07Rik	0	0	0	169	2.816667	5.66023	5.226196	Unclassified	chr18:24627371-24636268	6.898
2700060E02Rik	0	0	0	262	4.366667	26.4757	13.21492	Unclassified	chr14:20630623-20645045	12.423
Chac2	0	0	0	243	4.05	6.02159	22.39425	Stalled	chr11:30876708-30888365	9.658
N6amt2	0	0	0	286	4.766667	7.29691	34.29435	Stalled	chr14:58168434-58192406	21.974
Tas2r118	0	0	0	0	0	0	0	Unclassified	chr6:23919160-23922060	0.901
Mid1ip1	0	0	0	482	8.033333	35.5721	2.284683	Elongating	chrX:10292490-10296827	2.338
Klrb1c	0	0	0	6	0.1	0.081243	0.646793	Unclassified	chr6:128728504-128740659	10.156
Tas2r114	0	0	0	1	0.016667	0	0	Unclassified	chr6:131639151-131642081	0.931
Defb1	0	0	0	9	0.15	0	1.558148	Unclassified	chr8:22885026-22905657	18.632
Ppp4r2	0	0	0	633	10.55	7.97851	8.002098	Unclassified	chr6:100781631-100818711	35.081
Gas6	0	0	0	49	0.816667	0.410241	1.978767	Unclassified	chr8:13465373-13496535	29.163
Tas2r106	0	0	0	0	0	0	0	Unclassified	chr6:131627977-131630904	0.928
Polb	0	0	0	358	5.966667	9.00226	16.33369	Unclassified	chr8:23738590-23765909	25.32
4930579C15Rik	0	0	0	13	0.216667	0.041747	0	Unclassified	chr4:94573983-94597501	21.519
Tas2r140	0	0	0	1	0.016667	0	1	Unclassified	chr6:133004872-133007811	0.94
Cd109	0	0	0	99	1.65	0.100118	3.117162	Unclassified	chr9:78461583-78564060	100.478
Prkcdbp	0	0	0	5	0.083333	0.137407	0.67712	Unclassified	chr7:112629129-112632711	1.583
Col5a3	0	0	0	87	1.45	0.069494	0	Unclassified	chr9:20574493-20621478	44.986
Gas2	0	0	0	172	2.866667	1.01922	8.217411	Unclassified	chr7:59132514-59249828	115.315
Rab11a	0	0	0	240	4	6.72373	34.84244	Stalled	chr9:64563106-64587563	22.458
4930455F23Rik	0	0	0	118	1.966667	3.25408	19.88817	Stalled	chr1:166203728-166217976	12.249
Gria1	0	0	0	280	4.666667	0.03846	0	Unclassified	chr11:56823192-57143746	318.555
Fkbp14	0	0	0	23	0.383333	0.847743	2.764473	Unclassified	chr6:54527598-54545122	15.525
H2-Ke2	0	0	0	196	3.266667	81.8145	7.028924	Unclassified	chr17:34075853-34079288	1.436
Polr1c	0	0	0	656	10.933333	45.5127	3.929908	Unclassified	chr17:46380868-46386994	4.127
Slc8a1	0	0	0	207	3.45	0.03314	0	Unclassified	chr17:81772444-82139717	365.274
Polr1d	0	0	0	931	15.51667	88.0234	7.830929	Unclassified	chr5:147887116-147922935	33.82
Mkrn1	0	0	0	503	8.383333	15.5485	15.78351	Unclassified	chr6:39347819-39372368	22.55
Gm815	0	0	0	6	0.1	0.082954	1.388829	Unclassified	chr19:26958414-26963137	2.724
Igfbp2	0	0	0	35	0.583333	0.167084	1.395722	Unclassified	chr1:72869076-72899045	27.97
Tox	0	0	0	342	5.7	1.00848	7.287162	Unclassified	chr4:6614532-6919870	303.339
Ccr11	0	0	0	67	1.116667	0.34329	1.571703	Unclassified	chr9:104000467-104030973	28.507
Creb5	0	0	0	188	3.133333	0.089219	1.200751	Unclassified	chr6:53521367-53645826	122.46
Obox6	0	0	0	3	0.05	0.028756	0.730857	Unclassified	chr7:16418598-16427028	6.431
Tecr1	0	0	0	37	0.616667	0	0	Unclassified	chr5:83707146-83786220	77.075
Omp	0	0	0	35	0.583333	0.361803	1.083038	Unclassified	chr7:105291868-105295957	2.09
Akap7	0	0	0	366	6.1	0.59084	0.261246	Unclassified	chr10:24888895-25020969	130.075
Omt2a	0	0	0	3	0.05	0.051982	1	Unclassified	chr9:78159778-78163855	2.078
Rasa1	0	0	0	603	10.05	5.63892	51.62263	Stalled	chr13:85354303-85431091	74.789
Cog2	0	0	0	657	10.95	10.3356	9.246999	Unclassified	chr8:127042666-127075905	31.24
Slc25a40	0	0	0	355	5.916667	2.35038	63.50678	Stalled	chr5:8420849-8454793	31.945
Acsd2	0	0	0	105	1.75	3.45579	9.260257	Unclassified	chr2:155341778-155388479	44.702
Podxl2	0	0	0	104	1.733333	0.730353	0.463738	Unclassified	chr6:88792551-88826038	31.488
Svs5	0	0	0	3	0.05	0.064082	0.773006	Unclassified	chr2:164156500-164160129	1.63
Hoxa11	0	0	0	10	0.166667	0.122747	0.695028	Unclassified	chr6:52192104-52197766	3.663
Stard7	0	0	0	692	11.533333	22.2282	50.21526	Unclassified	chr2:127093964-127124670	28.707
Mtrf1	0	0	0	144	2.4	7.16339	12.79647	Stalled	chr14:79795578-79823457	25.88
Polrmt	0	0	0	205	3.416667	9.8543	7.223563	Unclassified	chr10:79198869-79211326	10.458
Kcne4	0	0	0	1	0.016667	0.031221	0	Unclassified	chr1:78811523-78816600	3.078
Gprasp1	0	0	0	244	4.066667	4.23654	31.43379	Stalled	chrX:132275230-132338007	60.778
Rab3c	0	0	0	136	2.266667	0.042228	0	Unclassified	chr13:110844396-111072414	226.019
Ccdc137	0	0	0	437	7.283333	7.2724	10.14144	Unclassified	chr11:120317442-120325667	6.226
V1ri7	0	0	0	0	0	0.049331	0	Unclassified	chr13:22593205-22596114	0.91
V1ri9	0	0	0	1	0.016667	0.02001	0	Unclassified	chr13:22310729-22313689	0.961
Vmn2r43	0	0	0	1	0.016667	0	0	Unclassified	chr7:9864726-9882971	16.246
Gpr39	0	0	0	181	3.016667	0.018006	1.050595	Unclassified	chr1:127571572-127770436	196.865
V1rh7	0	0	0	0	0	0	0	Unclassified	chr13:22711965-22714904	0.94
V1rh8	0	0	0	0	0	0	0	Unclassified	chr13:22683848-22686799	0.952
V1rh9	0	0	0	0	0	0.027586	0	Unclassified	chr13:22864267-22867194	0.928
V1ri2	0	0	0	2	0.033333	0	2	Unclassified	chr13:23165660-23168563	0.904
V1ri3	0	0	0	1	0.016667	0	0	Unclassified	chr13:22444214-22447117	0.904

Enpp7	0	0	0	5	0.083333	0.11226	0.477466	Unclassified	chr11:118847501-118854155	4.655
V1ri5	0	0	0	2	0.033333	0.024354	1	Unclassified	chr13:23226353-23229250	0.898
V1ri6	0	0	0	1	0.016667	0.016249	0	Unclassified	chr13:22368185-22371273	1.089
MsrB2	0	0	0	307	5.116667	5.44903	6.897809	Unclassified	chr2:19291262-19316597	23.336
1700001C02Rik	0	0	0	24	0.4	0.036001	0	Unclassified	chr5:30766449-30786460	18.012
2610019F03Rik	0	0	0	22	0.366667	0.041628	1.684584	Unclassified	chr8:13952007-13976777	22.771
Gm5089	0	0	0	15	0.25	0.107373	0.58116	Unclassified	chr14:122834075-122852337	16.263
Wdfy3	0	0	0	303	5.05	0.134647	2.666466	Unclassified	chr5:102261973-102500940	236.968
Rtp1	0	0	0	5	0.083333	0.053401	0	Unclassified	chr16:23427205-23434033	4.829
Ccdc123	0	0	0	586	9.766667	6.14008	12.71431	Unclassified	chr7:36180111-36223703	41.593
Hsp90aa1	0	0	0	590	9.833333	41.8085	16.90294	Unclassified	chr12:111929245-111936605	5.361
Hspa1b	0	0	0	49	0.816667	2.02339	13.08931	Stalled	chr17:35093373-35098183	2.811
Rpap2	0	0	0	813	13.55	0	34.10382	Unclassified	chr5:108024735-108090857	64.123
Cd3e	0	0	0	14	0.233333	0.23205	0.450776	Unclassified	chr9:44806825-44819673	10.849
Cep170	0	0	0	226	3.766667	3.0083	0.994576	Unclassified	chr1:178663783-178739255	73.473
Agxt2l1	0	0	0	23	0.383333	0.067683	0.438417	Unclassified	chr3:130318492-130338666	18.175
Gm13889	0	0	0	7	0.116667	0.69546	5	Unclassified	chr2:93795967-93799257	1.291
A530064D06Rik	0	0	0	14	0.233333	0.048485	0.544817	Unclassified	chr17:48288845-48306207	15.363
BC094916	0	0	0	26	0.433333	6.22713	1.575618	Unclassified	chr1:175451441-175468088	14.648
Gm5114	0	0	0	2	0.033333	0.018177	1	Unclassified	chr7:46662663-46670530	5.868
8430410K20Rik	0	0	0	28	0.466667	4.61654	1.211838	Unclassified	chr9:4381536-4386869	3.334
Tmem60	0	0	0	331	5.516667	8.70994	13.22676	Unclassified	chr5:20386270-20392688	4.419
Eml4	0	0	0	2420	40.33333	19.5401	15.3165	Unclassified	chr17:83748270-83879699	129.43
Cnrm3	0	0	0	165	2.75	4.12847	9.915094	Unclassified	chr1:36566720-36585082	16.363
Zcchc4	0	0	0	468	7.8	4.05617	8.143488	Unclassified	chr5:53172305-53211004	36.7
Olfir790	0	0	0	1	0.016667	0	1	Unclassified	chr10:128935941-128938910	0.97
Zfp593	0	0	0	292	4.866667	15.3565	2.058409	Elongating	chr4:133799220-133803506	2.287
Fam70a	0	0	0	98	1.633333	0.205482	1.119602	Unclassified	chrX:35550477-35607658	55.182
Pcdh7	0	0	0	201	3.35	0.198201	0.680512	Unclassified	chr5:58107259-58523479	414.221
2210023G05Rik	0	0	0	2	0.033333	0.180403	0	Unclassified	chr8:107483617-107493436	7.82
Olfir63	0	0	0	3	0.05	0	1	Unclassified	chr17:33403670-33406621	0.952
Nat5	0	0	0	419	6.983333	11.8701	8.133685	Unclassified	chr2:145726976-145742160	13.185
Rprm	0	0	0	5	0.083333	0.737378	3	Unclassified	chr2:53936503-53939963	1.461
Tmem33	0	0	0	422	7.033333	3.51099	25.09742	Unclassified	chr5:67649890-67682700	30.811
PlekHg4	0	0	0	23	0.383333	0.119951	1.573257	Unclassified	chr8:107897280-107906762	7.483
Defb2	0	0	0	6	0.1	0	0	Unclassified	chr8:22948397-22953953	3.557
Jhdm1d	0	0	0	429	7.15	1.35462	29.92491	Stalled	chr6:39086618-39158772	70.155
Ccr5	0	0	0	45	0.75	0	1.241841	Unclassified	chr9:124034281-124041922	5.642
Fa2h	0	0	0	96	1.6	0.236577	2.108634	Unclassified	chr8:113869037-113919721	48.685
4933404M02Rik	0	0	0	21	0.35	1.53863	1.938981	Unclassified	chr2:70344875-70378941	32.067
Ktelc1	0	0	0	493	8.216667	5.33245	12.00186	Unclassified	chr16:38525263-38552266	25.004
1700029F12Rik	0	0	0	7	0.116667	0.034059	0	Unclassified	chr13:97791818-97806317	12.5
Adra1d	0	0	0	35	0.583333	1.02773	0.709103	Unclassified	chr2:131371092-131390021	16.93
Cib4	0	0	0	84	1.4	0	1.276531	Unclassified	chr5:30787956-30850209	60.254
Baz1a	0	0	0	2292	38.2	14.9471	8.66894	Unclassified	chr12:55993975-56089323	93.349
Ldoc1	0	0	0	0	0	0.076535	0	Unclassified	chrX:58960790-58964125	1.336
Trb1	0	0	0	13	0.216667	0.028898	0.280115	Unclassified	chr8:114210409-114216910	4.502
Gm5505	0	0	0	2	0.033333	0	0	Unclassified	chr18:44185522-44191862	4.341
Cox6b1	0	0	0	346	5.766667	173.294	5.33128	Unclassified	chr7:31401992-31413170	9.179
Cypt2	0	0	0	0	0	0	0	Unclassified	chrX:102693110-102695974	0.865
Acy1	0	0	0	723	12.05	7.53988	8.00086	Unclassified	chr9:106335326-106342567	5.242
Mapk3	0	0	0	94	1.566667	10.4383	4.056884	Unclassified	chr7:133901139-133909330	6.192
Mapk10	0	0	0	212	3.533333	0.117516	1.773925	Unclassified	chr5:10336966-103642353	303.388
Mapk13	0	0	0	24	0.4	0.221351	1.498772	Unclassified	chr17:28904261-28915649	9.389
Olfir1306	0	0	0	0	0	0.034074	0	Unclassified	chr2:111752146-111755085	0.94
Mapk8	0	0	0	337	5.616667	1.89688	29.47136	Stalled	chr14:34191083-34262344	69.262
Ceacam5	0	0	0	19	0.316667	0.003937	0	Unclassified	chr7:18296600-18346470	47.871
Zfp592	0	0	0	843	14.05	6.53002	15.92081	Unclassified	chr7:88136569-88190048	51.48
Pla2g4c	0	0	0	45	0.75	0.326534	1.294195	Unclassified	chr7:13912670-13946017	31.348
L3mbt4	0	0	0	299	4.983333	0.123396	0.629026	Unclassified	chr17:68621136-69129426	506.291
Rbm8a	0	0	0	291	4.85	25.2836	9.265088	Unclassified	chr3:96431850-96437714	3.865
F10	0	0	0	25	0.416667	0.301118	0.43779	Unclassified	chr8:13035307-13056216	18.91
Sic17a5	0	0	0	424	7.066667	2.74197	31.74278	Stalled	chr9:78384315-78437834	51.52
Atp1b3	0	0	0	834	13.9	48.4011	16.03657	Unclassified	chr9:96233094-96266718	31.625
Oxsr1	0	0	0	608	10.13333	8.11908	0.970294	Unclassified	chr9:119149783-119215966	64.184
Klhl25	0	0	0	398	6.633333	6.22886	7.27868	Unclassified	chr7:82991223-83019016	25.794
Hepacam2	0	0	0	32	0.533333	0.601522	2.296825	Unclassified	chr6:3407088-3446498	37.411
Cadm1	0	0	0	266	4.433333	0.10509	5.049021	Unclassified	chr9:47336434-47661468	323.035
Rbm46	0	0	0	22	0.366667	0.021504	3.461566	Unclassified	chr3:82641155-82682405	39.251
Galp	0	0	0	19	0.316667	0	0	Unclassified	chr7:6146691-6167739	19.049
B3gat1	0	0	0	16	0.266667	0.018705	1.267398	Unclassified	chr9:26557146-26568923	9.778
Tro	0	0	0	36	0.6	0.020578	0.504588	Unclassified	chrX:147079845-147093979	12.135
Plek	0	0	0	505	8.416667	12.6546	9.969955	Unclassified	chr11:16871208-16910721	37.514
Prpf40a	0	0	0	1250	20.83333	16.2019	32.32567	Unclassified	chr2:52997508-53052221	52.714
Tbpb2	0	0	0	703	11.71667	1.79793	14.68016	Unclassified	chr3:119421659-119488306	64.648
Zp3r	0	0	0	34	0.566667	0.031505	1.252129	Unclassified	chr1:132473282-132528183	52.902
Gucy1b2	0	0	0	76	1.266667	0.05673	0.916664	Unclassified	chr14:63011512-63077126	63.615
Ikzf4	0	0	0	97	1.616667	0.339999	3.546703	Unclassified	chr10:128069470-128085049	13.58
Bmp3	0	0	0	23	0.383333	0.061775	0.573254	Unclassified	chr5:99281457-99309979	26.523
Pltp	0	0	0	357	5.95	0	2.629711	Elongating	chr2:164665017-164685208	18.192
Grem2	0	0	0	53	0.883333	0.006845	0	Unclassified	chr1:176763915-176853950	88.036
Actr1	0	0	0	1	0.016667	0.028715	0	Unclassified	chrX:43680183-43683522	1.34
Gm13128	0	0	0	1	0.016667	0.032972	0	Unclassified	chr4:143918151-143923368	3.218
Pappa2	0	0	0	188	3.133333	0.046279	0.568154	Unclassified	chr1:160641861-160889569	245.709
Arl1	0	0	0	359	5.983333	20.1044	23.44115	Unclassified	chr10:88192158-88205947	11.79
Olfir1133	0	0	0	0	0	0	0	Unclassified	chr2:87485337-87488278	0.942

Add2	0	0	0	46	0.766667	0.090401	0	Unclassified	chr6:86026077-86069549	41.473
A530098C11Rik	0	0	0	169	2.816667	0.035404	0.226415	Unclassified	chr1:44066252-44078851	10.6
Olfr397	0	0	0	1	0.016667	0.013519	0	Unclassified	chr11:73776111-73779059	0.949
Adcyap1r1	0	0	0	70	1.166667	0.024971	0	Unclassified	chr6:55399973-55451449	49.477
Adcyap1	0	0	0	9	0.15	0.110274	0.915891	Unclassified	chr17:93596761-93604829	6.069
Olfr1123	0	0	0	0	0	0	0	Unclassified	chr2:87256206-87259178	0.973
Olfr390	0	0	0	0	0	0.057587	0	Unclassified	chr11:73598441-73601377	0.937
Adcy6	0	0	0	30	0.5	0.298442	0	Unclassified	chr15:98420420-98440064	17.645
Inca1	0	0	0	312	5.2	3.51362	53.76753	Stalled	chr11:70501862-70515657	11.796
Fam26e	0	0	0	7	0.116667	0.157872	2.027395	Unclassified	chr10:33811157-33818325	5.169
Echdc2	0	0	0	25	0.416667	1.184	3.349141	Unclassified	chr4:107836070-107851912	13.843
Ikbkg	0	0	0	463	7.716667	3.8537	19.11451	Stalled	chrX:71673019-71699117	24.099
Rcn1	0	0	0	242	4.033333	4.9389	9.015939	Unclassified	chr2:105226104-105241476	13.373
Gm6583	0	0	0	24	0.4	0	1.53525	Unclassified	chr5:112782820-112787053	2.234
Rcvrn	0	0	0	17	0.283333	0.036204	1.559758	Unclassified	chr11:67506827-67516857	8.031
Il11	0	0	0	16	0.266667	0.071089	0.624169	Unclassified	chr7:4724661-4731743	5.083
Il11ra1	0	0	0	16	0.266667	0.618972	4.24545	Unclassified	chr4:41707182-41716346	7.165
Gm11565	0	0	0	4	0.066667	0	1	Unclassified	chr11:99774064-99776985	0.922
Fads3	0	0	0	288	4.8	2.8224	1.699127	Elongating	chr19:10114037-10134161	18.125
Gm13157	0	0	0	298	4.966667	2.00987	15.05325	Stalled	chr4:147128083-147185895	55.813
Sic6a14	0	0	0	5	0.083333	0.014946	0	Unclassified	chrX:21290025-21319481	27.457
Mc4r	0	0	0	5	0.083333	0.092575	1.276934	Unclassified	chr18:67017361-67022126	2.766
Mc3r	0	0	0	5	0.083333	0.06352	0.896247	Unclassified	chr2:172071991-172076614	2.624
Mc2r	0	0	0	9	0.15	0	0	Unclassified	chr18:68566560-68590913	22.354
Asb9	0	0	0	10	0.166667	0.045132	0.819462	Unclassified	chrX:160933834-160977684	41.851
Trim9	0	0	0	118	1.966667	0.469627	3.905854	Unclassified	chr12:71345523-71450601	103.079
Col1a2	0	0	0	27	0.45	0.064792	0	Unclassified	chr6:4453696-4491543	35.848
Acmds	0	0	0	42	0.7	0.044521	1.977459	Unclassified	chr1:129623989-129664141	38.153
Pmpca	0	0	0	656	10.93333	23.4855	7.929876	Unclassified	chr2:26242867-26252641	7.775
Olig2	0	0	0	7	0.116667	0.152513	0.515621	Unclassified	chr16:91223794-91228922	3.129
Oog3	0	0	0	5	0.083333	0	0.505929	Unclassified	chr4:143747459-143754554	5.096
Adrb3	0	0	0	10	0.166667	0.270541	0.260218	Unclassified	chr8:28336247-28342060	3.814
Arhgef12	0	0	0	658	10.96667	3.97244	30.41266	Stalled	chr9:42771924-42915801	141.878
Procr	0	0	0	16	0.266667	0.843715	1.330126	Unclassified	chr2:155574952-155581213	4.262
Olfr1286	0	0	0	0	0	0	0	Unclassified	chr2:111260188-111263106	0.919
Nxph2	0	0	0	27	0.45	0.029817	0	Unclassified	chr2:23174765-23257493	80.729
Clec14a	0	0	0	6	0.1	0.019765	0.469496	Unclassified	chr12:59365706-59372245	4.54
Nxph1	0	0	0	174	2.9	0.079069	1.281042	Unclassified	chr6:8898018-9198578	298.561
Tmem92	0	0	0	5	0.083333	0.065602	0.599359	Unclassified	chr11:94638530-94646017	5.488
1810022C23Rik	0	0	0	16	0.266667	0.833692	2.473108	Unclassified	chr13:35038482-35057678	17.197
Chrd12	0	0	0	68	1.133333	0.09275	0.598397	Unclassified	chr7:107152913-107183236	28.324
Nxn	0	0	0	621	10.35	6.41221	11.77833	Stalled	chr11:76070727-76214643	141.917
Ccdc112	0	0	0	84	1.4	1.19424	13.49385	Stalled	chr18:46441804-46473582	29.779
Fem1c	0	0	0	888	14.8	11.5469	28.41756	Unclassified	chr18:46664259-46687625	21.367
Mafa	0	0	0	35	0.583333	0.534014	20	Unclassified	chr15:75577272-75580352	1.081
Pramef8	0	0	0	227	3.783333	3.33781	1.386843	Elongating	chr4:143000328-143010990	8.663
Ltm2	0	0	0	443	7.383333	3.28308	104.6208	Stalled	chr8:26688961-26709959	18.999
Dnajc24	0	0	0	275	4.583333	16.1333	16.73576	Stalled	chr2:105806873-105845706	36.834
Gm2030	0	0	0	0	0	0	0	Unclassified	chrX:25714102-25739170	23.069
S1pr5	0	0	0	22	0.366667	0.97585	0.630992	Unclassified	chr9:21047360-21054887	5.528
Olfr1128	0	0	0	0	0	0.027385	0	Unclassified	chr2:87384764-87387699	0.936
Mrps35	0	0	0	474	7.9	18.0153	18.38758	Unclassified	chr6:146989291-147019424	28.134
Gm5082	0	0	0	17	0.283333	0.024106	0.691099	Unclassified	chr13:41742811-41752146	7.336
Trim1	0	0	0	9	0.15	0.020783	0.571757	Unclassified	chr8:44215160-44228840	11.681
Pi15	0	0	0	17	0.283333	0.02407	0.636686	Unclassified	chr1:17589981-17621019	29.039
Smchd1	0	0	0	2074	34.56667	12.3339	24.25434	Unclassified	chr17:171693833-171826683	130.851
Olfr828	0	0	0	1	0.016667	0.027298	1	Unclassified	chr9:18619797-18622736	0.94
Dennd2c	0	0	0	72	1.2	0.11595	0.373746	Unclassified	chr3:102929478-102973656	42.179
Ddx11	0	0	0	489	8.15	4.8141	15.96611	Unclassified	chr17:66470859-66501508	28.65
Tmem91	0	0	0	196	3.266667	0.801949	0.505334	Unclassified	chr7:26454160-26462185	6.026
Sec14I3	0	0	0	10	0.166667	0.040973	1.212377	Unclassified	chr11:3962843-3976617	11.775
Nefh	0	0	0	74	1.233333	2.13503	1.650629	Unclassified	chr11:4838758-4850067	9.31
Cnrip1	0	0	0	60	1	4.12961	18.34655	Stalled	chr11:16949936-16979375	27.44
Sic7a15	0	0	0	52	0.866667	0.067485	1.173589	Unclassified	chr12:8535288-8607872	70.585
Colec12	0	0	0	99	1.65	0.050154	0.635816	Unclassified	chr18:9705645-9877993	170.349
Gm7173	0	0	0	12	0.2	0.018102	0.771266	Unclassified	chrX:76727906-76764624	34.719
Olfr627	0	0	0	2	0.033333	0.033644	2	Unclassified	chr7:110863109-110866060	0.952
Trem1	0	0	0	12	0.2	0.115557	0.767866	Unclassified	chr17:48497240-48506471	7.232
Olfr1121	0	0	0	1	0.016667	0	0	Unclassified	chr2:87209690-87212635	0.946
Gigyf2	0	0	0	950	15.83333	13.8939	34.14799	Unclassified	chr1:89221572-89347385	123.814
Dctd	0	0	0	513	8.55	6.32221	15.97581	Unclassified	chr8:49193311-49227020	31.71
Prkci	0	0	0	418	6.966667	4.79524	24.21536	Stalled	chr3:30892692-30951662	56.971
Car5a	0	0	0	85	1.416667	0.052472	1.300459	Unclassified	chr8:124440043-124470812	28.77
Car6	0	0	0	22	0.366667	0.056171	0	Unclassified	chr4:149561124-149577244	14.121
Car4	0	0	0	16	0.266667	0.157982	1.595628	Unclassified	chr11:84769255-84779554	8.3
Trafid1	0	0	0	573	9.55	28.5577	4.705993	Unclassified	chr5:121821734-121837624	13.891
Nr1i3	0	0	0	58	0.966667	0.05084	0.366518	Unclassified	chr1:173142100-173148975	4.876
4931429I11Rik	0	0	0	56	0.933333	0.075194	1.688822	Unclassified	chr9:40702931-40774195	69.265
D11Wsu99e	0	0	0	898	14.96667	12.9007	13.60173	Unclassified	chr11:113522632-113547465	22.834
Gm5460	0	0	0	7	0.116667	0.047144	2.131064	Unclassified	chr14:34852263-34860167	5.905
Atp5o	0	0	0	295	4.916667	95.1516	5.991847	Unclassified	chr16:91925467-91933875	6.409
Raly1	0	0	0	264	4.4	0.127055	0.730351	Unclassified	chr3:13469654-14182287	710.634
Wdfy1	0	0	0	734	12.23333	11.7935	9.33593	Unclassified	chr1:79698836-79760344	59.509
Fam171a2	0	0	0	159	2.65	0.699148	0.491264	Unclassified	chr11:102298295-102310977	10.683
Gm16387	0	165.6498	0	12	0.2	0.019052	0.868778	Unclassified	chr7:46511993-46521904	7.912
Drap1	0	0	0	296	4.933333	91.4198	3.647131	Unclassified	chr19:5422823-5426916	2.094

Gpihbp1	0	0	0	2	0.033333	0.064323	0	Unclassified	chr15:75425087-75428643	1.557
Gm11330	0	0	0	0	0	0	0	Unclassified	chr13:23339106-23342192	1.087
Ppp1r14a	0	0	0	17	0.283333	0.627541	3.475113	Unclassified	chr7:30072338-30078409	4.072
Cenpa	0	0	0	562	9.366667	47.5167	8.020529	Unclassified	chr5:30967274-30977199	7.926
Taf10	0	0	0	380	6.333333	58.9894	3.632698	Unclassified	chr7:112891407-112894852	1.446
Syp	0	0	0	163	2.716667	1.49661	0.316844	Unclassified	chrX:7213705-7230382	14.678
Lct	0	0	0	372	6.2	0.068592	12.40626	Stalled	chr1:130181340-130226895	43.556
Syngnr3	0	0	0	64	1.066667	1.59613	0.35172	Unclassified	chr17:24822036-24828894	4.859
Syngnr1	0	0	0	90	1.5	1.32037	5.650262	Unclassified	chr15:79919763-79949931	28.169
Slc35a1	0	0	0	293	4.883333	3.43439	21.58367	Stalled	chr4:34610506-34636687	24.182
Bcas2	0	0	0	246	4.1	38.5072	14.80415	Unclassified	chr3:102973633-102983077	7.445
Hyi	0	0	0	190	3.166667	5.4104	2.295014	Elongating	chr4:118030618-118035349	2.732
Spry1	0	0	0	16	0.266667	0.468388	1.731563	Unclassified	chr3:37536871-37543521	4.651
Syt1	0	0	0	292	4.866667	0.013577	0	Unclassified	chr10:107935313-108449675	512.363
Chchd8	0	0	0	230	3.833333	10.2474	11.93397	Stalled	chr7:107683613-107688326	2.714
Galnt13	0	0	0	231	3.85	0.027598	0	Unclassified	chr2:54286797-54970155	681.359
Tmem28	0	0	0	14	0.233333	0.063358	0	Unclassified	chrX:97014407-97041684	25.278
Ulk2	0	0	0	554	9.233333	2.45771	97.61637	Stalled	chr11:61589099-61670594	79.496
Cabp2	0	0	0	14	0.233333	0.131232	0	Unclassified	chr19:4081518-4087337	3.82
Rnf11	0	0	0	188	3.133333	6.43054	33.30484	Stalled	chr4:109125461-109151110	23.65
Cabp5	0	0	0	11	0.183333	0.09548	0.54866	Unclassified	chr7:13981503-13994227	10.725
Pde7b	0	0	0	1050	17.5	1.37254	11.83842	Stalled	chr10:20117809-20446874	327.066
Dpf1	0	0	0	92	1.533333	0.496257	1.373945	Unclassified	chr7:30087023-30102605	13.583
Gdpd2	0	0	0	48	0.8	0.083961	8.560117	Unclassified	chrX:97923185-97934238	9.054
Pdia6	0	0	0	1126	18.76667	223.184	5.656641	Unclassified	chr12:17271400-17291576	18.177
9130008F23Rik	0	0	0	19	0.316667	3.02105	4.855725	Unclassified	chr17:41012430-41019507	5.078
Zfp846	0	0	0	146	2.433333	1.96372	20.81636	Stalled	chr9:20383771-20399637	13.867
Wdr53	0	0	0	355	5.916667	12.9734	25.63567	Stalled	chr16:32245371-32257158	9.788
Cdkl3	0	0	0	416	6.933333	4.67528	48.56734	Stalled	chr11:51815722-51815667	33.946
Mett5d1	0	0	0	242	4.033333	1.34873	30.91857	Stalled	chr2:108932456-109120447	185.992
Slc12a1	0	0	0	70	1.166667	0.016559	0.525457	Unclassified	chr2:124976335-125055737	77.403
Krt42	0	0	0	16	0.266667	0	2.569223	Unclassified	chr11:100124195-100133185	6.991
Smc3	0	0	0	1083	18.05	18.4221	28.65427	Unclassified	chr19:53672885-53720321	45.437
Csnk2a2	0	0	0	863	14.38333	6.85615	5.551183	Unclassified	chr8:97969995-98014720	42.726
Csrp3	0	0	0	20	0.333333	0.057025	0	Unclassified	chr7:56085767-56101021	13.255
Csrp2	0	0	0	239	3.983333	5.1315	14.71548	Unclassified	chr10:110355231-110376570	19.34
Olfr435	0	0	0	0	0	0.054422	0	Unclassified	chr6:43149644-43152586	0.943
1700094C09Rik	0	0	0	33	0.55	0.067366	0.462654	Unclassified	chr8:12571048-12600738	27.691
Olfr1403	0	0	0	0	0	0.038837	0	Unclassified	chr1:175198277-175201267	0.991
Tlk1	0	0	0	1695	28.25	7.88788	20.56197	Unclassified	chr2:70550466-70665537	113.072
Olfr1160	0	0	0	0	0	0	0	Unclassified	chr2:87845973-87848933	0.961
Olfr6	0	0	0	0	0	0	0	Unclassified	chr7:114099499-114102448	0.95
Olfr1154	0	0	0	0	0	0	0	Unclassified	chr2:87742898-87745831	0.934
Ghnr	0	0	0	8	0.133333	0.049149	0.447121	Unclassified	chr3:27268272-27276932	6.661
Gm5150	0	0	0	16	0.266667	0.04208	0	Unclassified	chr3:15848069-15908332	58.264
Gm12695	0	0	0	32	0.533333	0.039122	0	Unclassified	chr4:96390577-96453851	61.275
Ascc3	0	0	0	1199	19.98333	2.91154	76.75925	Stalled	chr10:50310474-50571007	258.534
Olfr441	0	0	0	0	0	0.030299	0	Unclassified	chr6:43063742-43066675	0.934
Olfr438	0	0	0	0	0	0.016562	0	Unclassified	chr6:43101305-43104238	0.934
Uevld	0	0	0	138	2.3	0.974241	11.13555	Stalled	chr7:54178585-54215888	35.304
Gipc2	0	0	0	91	1.516667	0.385301	1.348739	Unclassified	chr3:151756804-151830864	72.061
Rps28	0	0	0	561	9.35	114.302	3.114616	Unclassified	chr17:33959983-33963443	1.461
Gfra4	0	0	0	9	0.15	0.145475	0.553659	Unclassified	chr2:130865911-130870824	2.914
Gfra1	0	0	0	275	4.583333	0.258283	3.607102	Unclassified	chr19:58311181-58530956	217.776
Gfpt2	0	0	0	64	1.066667	0.111596	2.675798	Unclassified	chr11:49605656-49652122	44.467
Gfra3	0	0	0	35	0.583333	0.090075	0.487485	Unclassified	chr18:34849556-34882041	30.486
Gfap	0	0	0	36	0.6	0.506132	0.912468	Unclassified	chr11:102748649-102760514	9.866
Ipo11	0	0	0	1237	20.61667	5.02196	18.47189	Unclassified	chr13:107584518-107728995	142.478
S100a8	0	0	0	1	0.016667	0.130779	0	Unclassified	chr3:90470992-90473956	0.965
Gjd4	0	0	0	8	0.133333	0.019265	3.810657	Unclassified	chr18:9278604-9284807	4.204
Tcf19	0	0	0	199	3.316667	17.9551	5.924031	Unclassified	chr17:35649679-35655769	4.091
Dhx57	0	0	0	426	7.1	9.92952	10.31148	Unclassified	chr17:80637643-80691816	52.174
Unc5cl	0	0	0	120	2	2.01659	0.19699	Unclassified	chr17:48592225-48608007	13.783
Saa2	0	0	0	3	0.05	0.120299	0.425782	Unclassified	chr7:54005202-54009684	2.483
Abca13	0	0	0	247	4.116667	0.018411	0	Unclassified	chr11:9089944-9584262	492.319
Mut	0	0	0	187	3.116667	4.00339	44.99701	Stalled	chr17:41069673-41097848	26.176
Ndubf4	0	0	0	196	3.266667	15.5002	7.263128	Unclassified	chr16:37647687-37656454	6.768
Necap1	0	0	0	522	8.7	6.27591	9.142912	Unclassified	chr6:122822574-122838959	14.386
Pcm1	0	0	0	905	15.08333	3.48163	26.00878	Unclassified	chr8:42323112-42419441	94.33
4930453N24Rik	0	0	0	181	3.016667	7.21144	30.36156	Stalled	chr16:64765930-64772765	4.836
Olfr1510	0	0	0	0	0	0.053442	0	Unclassified	chr14:53029563-53032602	1.04
Olfr742	0	0	0	1	0.016667	0.002816	1	Unclassified	chr14:51132795-51135914	1.12
Olfr225	0	0	0	0	0	0.040051	0	Unclassified	chr11:59402629-59405589	0.961
Dcaf15	0	0	0	539	8.983333	15.1421	2.67187	Elongating	chr8:86620970-86630661	7.692
Tspan1	0	0	0	84	1.4	0.039015	0.110104	Unclassified	chr4:115834485-115842203	5.719
Olfr995	0	0	0	0	0	0.056858	0	Unclassified	chr2:85278365-85281313	0.949
Olfr994	0	0	0	0	0	0.016352	0	Unclassified	chr2:85270039-85272984	0.946
Olfr1512	0	0	0	1	0.016667	0.040784	0	Unclassified	chr14:52991785-52994726	0.942
Krt20	0	0	0	12	0.2	0.029268	0.98603	Unclassified	chr11:99289716-99301467	9.752
Olfr996	0	0	0	0	0	0	0	Unclassified	chr2:85417371-85420438	1.068
Olfr998	0	0	0	3	0.05	0.03389	1	Unclassified	chr2:85428666-85431676	1.011
Krt82	0	0	0	12	0.2	0.108911	0.513204	Unclassified	chr15:101371657-101383090	9.434
Zfp295	0	0	0	548	9.133333	2.98887	24.86186	Unclassified	chr16:98168598-98185786	15.189
Pabpc5	0	0	0	3	0.05	0.115842	3	Unclassified	chrX:117038804-117043774	2.971
Nek5	0	0	0	65	1.083333	0.074638	2.790822	Unclassified	chr8:23184087-23237525	51.439
Cpn1	0	0	0	51	0.85	0.150443	0.373498	Unclassified	chr19:44030799-44063010	30.212

Ear10	0	0	0	1	0.016667	0	0	Unclassified	chr14:44500562-44503033	0.472
Ear11	0	0	0	2	0.033333	0	0	Unclassified	chr14:51874936-51877787	0.852
Slc39a2	0	0	0	32	0.533333	0.19219	3.070127	Unclassified	chr14:52511284-52516420	3.137
Slc44a3	0	0	0	161	2.683333	0.065108	0.311143	Unclassified	chr3:121162446-121237262	72.817
Hdac6	0	0	0	183	3.05	4.62812	15.07614	Stalled	chrX:7507247-7527015	17.769
Hdac2	0	0	0	341	5.683333	16.1202	30.45854	Stalled	chr10:36692349-36721694	27.346
Decr1	0	0	0	157	2.616667	2.89247	30.38097	Stalled	chr4:15844386-15874654	28.269
1200014M14Rik	0	0	0	400	6.666667	5.93595	14.092	Unclassified	chr13:97156248-97185542	27.295
Pdcl	0	0	0	265	4.416667	10.4736	23.24186	Stalled	chr2:37205593-37216852	9.26
Mmd	0	0	0	298	4.966667	3.05772	22.82749	Stalled	chr11:90108789-90139887	29.099
Wdr19	0	0	0	288	4.8	4.030801	14.6718	Stalled	chr5:65588934-65651654	60.721
Kcng4	0	0	0	33	0.55	0.053878	0.25887	Unclassified	chr8:122147753-122161580	11.828
Ccdc52	0	0	0	248	4.133333	1.77086	49.50839	Stalled	chr16:44345513-44388605	41.093
Tada2a	0	0	0	438	7.3	3.94886	15.04342	Unclassified	chr11:83892421-83945070	50.65
Synrg	0	0	0	516	8.6	4.26747	28.49934	Stalled	chr11:83775929-83855581	77.653
Map1lc3a	0	0	0	64	1.066667	9.24222	1.062353	Unclassified	chr2:155100179-155103809	1.631
Ggnbp2	0	0	0	1408	23.46667	21.4765	21.5105	Unclassified	chr11:84645862-84686240	38.379
4930474N05Rik	0	0	0	0	0	0.022895	0	Unclassified	chr14:36906150-36910041	1.892
Catsper3	0	0	0	31	0.516667	0.04888	0.446787	Unclassified	chr13:55883939-55910359	24.421
Sval2	0	0	0	1	0.016667	0	1	Unclassified	chr6:41808337-41814321	3.985
Ii23r	0	0	0	44	0.733333	0.056664	0.635258	Unclassified	chr6:67372925-67443849	68.925
C530028O21Rik	0	0	0	57	0.95	0.230717	1.239395	Unclassified	chr6:124944737-124953112	6.376
Olfr427	0	0	0	2	0.033333	0	1	Unclassified	chr1:176027590-176030538	0.949
Dnajc22	0	0	0	7	0.116667	0.061364	2.714859	Unclassified	chr15:98927914-98935138	5.225
Nlrp14	0	0	0	11	0.183333	0.027344	0	Unclassified	chr7:114308503-114341616	31.114
Nckap1l	0	0	0	811	13.51667	33.4742	10.02451	Unclassified	chr15:103282255-103329231	44.977
Ati3	0	0	0	687	11.45	5.11913	35.53094	Unclassified	chr19:7566927-7613098	44.172
Mal2	0	0	0	13	0.216667	0.073896	1.469649	Unclassified	chr15:54400920-54434401	31.482
Cd69	0	0	0	701	11.68333	11.4055	2.977312	Elongating	chr6:129217342-129227387	8.046
Cd7	0	0	0	9	0.15	0.117942	0.714928	Unclassified	chr11:120898064-120902732	2.669
Cd6	0	0	0	99	1.65	0.083358	0.594088	Unclassified	chr19:10863828-10906548	40.721
Cd63	0	0	0	9	0.15	0.793751	0	Unclassified	chr10:128343974-128349874	3.901
Hgd	0	0	0	46	0.766667	0.015842	1.095549	Unclassified	chr16:37578238-37632111	51.874
Wasl	0	0	0	489	8.15	4.6385	35.19101	Stalled	chr6:24563810-24616995	51.186
Isx	0	0	0	23	0.383333	0	0.983068	Unclassified	chr8:77395072-77417405	20.334
Pcdh18	0	0	0	10	0.166667	0.04705	0.591318	Unclassified	chr3:49547217-49563238	14.022
Kcnj5	0	0	0	36	0.6	0.04561	0.478606	Unclassified	chr9:32122367-32153822	29.456
Kcnj4	0	0	0	57	0.95	0.017867	1.455359	Unclassified	chr15:79314143-79337671	21.529
Clec4f	0	0	0	13	0.216667	0.069422	0	Unclassified	chr6:83594535-83608110	11.576
Kcnj6	0	0	0	269	4.483333	0.08599	1.941352	Unclassified	chr16:94970289-95221303	249.015
Kcnk1	0	0	0	42	0.7	0.038955	0.952952	Unclassified	chr8:128517001-12854585	35.585
ENSMUSG00000	0	0	0	0	0	0.051303	0	Unclassified	chr17:13289525-13293338	1.814
Prl8a8	0	0	0	1	0.016667	0	0	Unclassified	chr13:27598940-27607082	6.143
Kcnk4	0	0	0	32	0.533333	0.347186	1.086065	Unclassified	chr19:7000179-7011005	8.827
Gbe1	0	0	0	692	11.53333	1.99458	142.4739	Stalled	chr16:70312331-70569961	255.631
2310042D19Rik	0	0	0	45	0.75	0	0.703333	Unclassified	chr4:155588035-155595416	5.382
Prei4	0	0	0	1055	17.58333	8.8473	16.47958	Unclassified	chr2:132354818-132405984	49.167
Muc5b	0	0	0	182	3.033333	0.03607	0.154989	Unclassified	chr7:149022976-149058990	34.015
Cfi	0	0	0	61	1.016667	0.012365	0	Unclassified	chr3:129537656-129578246	38.591
Cfl2	0	0	0	340	5.666667	3.07491	16.8406	Unclassified	chr12:55959805-55965864	4.06
Ccne2	0	0	0	645	10.75	3.65613	21.2188	Unclassified	chr4:11116500-11131926	13.427
Cftr	0	0	0	62	1.033333	0.559088	0	Unclassified	chr6:18118686-18272769	152.084
Chst4	0	0	0	9	0.15	0.044857	0	Unclassified	chr8:112552974-112565234	10.261
Senp8	0	0	0	244	4.066667	0.708817	55.29247	Stalled	chr9:59583692-59600417	14.726
Plxna4	0	0	0	417	6.95	0.055496	1.553769	Unclassified	chr6:32094558-32540192	443.635
Syt14	0	0	0	93	1.55	0.125868	1.836862	Unclassified	chr1:194723500-194863892	138.393
Fcrla	0	0	0	104	1.733333	6.52229	1.963363	Elongating	chr1:172847726-172859714	9.989
Zfp316	0	0	0	143	2.383333	0.996495	6.533986	Unclassified	chr5:144011373-144033701	20.329
Dusp27	0	0	0	47	0.783333	0.025505	0.790395	Unclassified	chr1:168028279-168060029	29.751
Acat1	0	0	0	509	8.483333	14.4319	10.79748	Unclassified	chr9:53388626-53420455	29.83
Sulf1	0	0	0	106	1.766667	0.077706	0	Unclassified	chr1:12706625-12850453	141.829
Sdcbp2	0	0	0	130	2.166667	0.176074	0.981877	Unclassified	chr2:151396367-151415735	17.369
Tmco2	0	0	0	1	0.016667	0.089126	0	Unclassified	chr4:120778255-120783831	3.577
2300005B03Rik	0	0	0	18	0.3	0.054476	1.576037	Unclassified	chr15:74573268-74579117	3.85
Ccnc	0	0	0	364	6.066667	7.47112	33.47152	Stalled	chr4:21652849-21677693	22.845
Tgm7	0	0	0	23	0.383333	0.042278	0.863733	Unclassified	chr2:120919325-120937527	16.203
Zbtb4	0	0	0	385	6.416667	3.4815	4.380885	Unclassified	chr11:69577413-69597528	18.116
Trh	0	0	0	6	0.1	0.027841	1.327759	Unclassified	chr6:92192055-92196642	2.588
Fam24a	0	0	0	43	0.716667	0	0.377989	Unclassified	chr7:138476135-138480230	2.096
Bst1	0	0	0	127	2.116667	1.08068	1.531228	Unclassified	chr5:44208131-44234707	24.577
Smyd1	0	0	0	62	1.033333	0.049587	0.907439	Unclassified	chr6:71163934-71214275	48.342
Olfr1042	0	0	0	2	0.033333	0	2	Unclassified	chr2:85999583-86002525	0.943
Tmem164	0	0	0	790	13.16667	5.83858	27.69461	Stalled	chrX:139113960-139272781	156.822
Dock7	0	0	0	283	4.716667	0.340289	9.115943	Unclassified	chr4:98603355-98789606	184.252
Olfr543	0	0	0	31	0.516667	0.158786	18	Unclassified	chr7:109625286-109628416	1.131
Olfr104	0	0	0	1	0.016667	0.056991	0	Unclassified	chr17:37497052-37500032	0.981
4932431H17Rik	0	0	0	36	0.6	0.671146	2.393436	Unclassified	chr3:58420221-58443129	20.909
Kihl2	0	0	0	630	10.5	4.55223	27.39101	Stalled	chr8:67218658-67375716	155.059
Impad1	0	0	0	370	6.166667	5.89851	12.01458	Unclassified	chr4:4691500-4722453	28.954
Sec24d	0	0	0	696	11.6	5.66135	14.10534	Unclassified	chr3:122968413-123068554	98.142
Calml4	0	0	0	91	1.516667	0.03565	0.336923	Unclassified	chr9:62703910-62723724	17.815
Otop3	0	0	0	39	0.65	0.058208	1.061194	Unclassified	chr11:115194047-115208240	12.194
Mtfmt	0	0	0	397	6.166667	9.01802	16.1725	Unclassified	chr9:65281588-65300861	17.274
Lnp	0	0	0	546	9.1	1.45152	39.01581	Stalled	chr2:74352893-74419005	64.113
Tnr	0	0	0	361	6.016667	0.057014	0.528498	Unclassified	chr1:161451899-161855053	401.155
Tfpi2	0	0	0	6	0.1	0.033996	1.408372	Unclassified	chr6:3912594-3920354	5.761

Tfpi	0	0	0	48	0.8	0.566942	1.487383	Unclassified	chr2:84273016-84316331	41.316
Tff3	0	0	0	6	0.1	0	1.048525	Unclassified	chr17:31262251-31268556	4.306
Tff2	0	0	0	7	0.116667	0	1.70203	Unclassified	chr17:31278006-31283227	3.222
Tfam	0	0	0	499	8.316667	8.22574	14.66553	Unclassified	chr10:70688224-70702792	12.569
Zfp738	0	0	0	91	1.516667	1.69435	17.93147	Stalled	chr13:67768377-67786449	16.073
Msi3	0	0	0	468	7.8	7.46022	37.90065	Unclassified	chrX:165092049-165113834	19.786
B4galt6	0	0	0	82	1.366667	0.320117	1.29698	Unclassified	chr18:20844503-20906905	60.403
Msmb	0	0	0	30	0.5	0.074083	0.345417	Unclassified	chr14:32953208-32971510	16.303
Rab9	0	0	0	217	3.616667	9.54727	13.11626	Stalled	chrX:162895190-162919622	22.433
Msn	0	0	0	1633	27.21667	75.2899	14.07522	Unclassified	chrX:93289383-93363892	72.51
Rab11fip1	0	0	0	247	4.116667	1.68392	22.51102	Stalled	chr8:28249244-28287120	35.877
Zfp456	0	0	0	121	2.016667	0.799158	20.49888	Stalled	chr13:67464519-67478699	12.181
9630025I21Rik	0	0	0	49	0.816667	1.30766	5.909114	Unclassified	chr13:67572448-67587189	12.742
Exph5	0	0	0	76	1.266667	0.072047	0	Unclassified	chr9:53107774-53189263	79.49
Ear1	0	0	0	0	0	0.003702	0	Unclassified	chr14:44396430-44399304	0.875
Bmp5	0	0	0	73	1.216667	0.020279	1.279952	Unclassified	chr9:75621171-75746824	123.654
Fbxl7	0	0	0	187	3.116667	0.052754	0.659286	Unclassified	chr15:26470213-26827319	355.107
Amy1	0	0	0	11	0.183333	0.043396	0	Unclassified	chr3:113258869-113282668	21.8
Mat1a	0	0	0	21	0.35	0.035956	0.486944	Unclassified	chr14:41916669-41937701	19.033
Iqgap3	0	0	0	359	5.983333	4.58453	3.982909	Unclassified	chr3:87883972-87924970	38.999
Etv2	0	0	0	8	0.133333	1.02692	0.342083	Unclassified	chr7:31418634-31422871	2.238
Etv1	0	0	0	51	0.85	0.236155	0.654005	Unclassified	chr12:39504844-39594793	87.95
D630002G06Rik	0	0	0	15	0.25	0.021132	0.804668	Unclassified	chr19:8234657-8295329	58.673
Rnasen	0	0	0	929	15.48333	8.11766	37.13899	Unclassified	chr15:12752569-12865046	110.478
Scd4	0	0	0	24	0.4	2.16135	0.790541	Unclassified	chr19:44405815-44421233	13.419
Oog4	0	0	0	6	0.1	0.026169	0.801849	Unclassified	chr4:143027066-143042205	13.14
Rasgrp4	0	0	0	178	2.966667	2.43781	2.33924	Elongating	chr7:29918005-29938970	18.966
Spc25	0	0	0	323	5.383333	8.0125	17.92599	Unclassified	chr2:69031952-69046214	12.263
Hpgd	0	0	0	12	0.2	0.059646	1.4782	Unclassified	chr8:58771348-58799843	26.496
Epcam	0	0	0	58	0.966667	2.61177	1.533044	Unclassified	chr17:88033318-88050467	15.15
Ly6f	0	0	0	2	0.033333	0.020625	1	Unclassified	chr15:75096850-75102664	3.815
Sbk2	0	0	0	26	0.433333	0.135146	3.903674	Unclassified	chr7:4908683-4917950	7.268
Opn1sw	0	0	0	78	1.3	0.106399	0.367893	Unclassified	chr6:29326670-29332513	3.844
Klk1b22	0	0	0	6	0.1	0.080202	0	Unclassified	chr7:51366052-51372246	4.195
Gira2	0	0	0	56	0.933333	0.009362	0	Unclassified	chrX:161456948-161766913	197.966
Fancb	0	0	0	155	2.583333	1.65022	19.20184	Stalled	chrX:161416523-161435203	16.681
Mdm4	0	0	0	861	14.35	10.3365	11.9827	Unclassified	chr1:134886421-134923925	35.505
Zfp637	0	0	0	98	1.633333	4.38968	10.6747	Stalled	chr6:117789259-117795974	4.716
V1ri4	0	0	0	0	0	0.042579	0	Unclassified	chr13:22564486-22567389	0.904
Efs	0	0	0	20	0.333333	0.064602	0	Unclassified	chr14:55535379-55547625	10.247
Fbxo27	0	0	0	30	0.5	0.729928	1.569076	Unclassified	chr7:29475867-29484354	6.488
Plscr4	0	0	0	30	0.5	0.534833	3.212269	Unclassified	chr9:92350215-92387354	35.14
5033411D12Rik	0	0	0	703	11.71667	0.773385	74.15308	Stalled	chr13:16949309-17788599	837.291
P2ry4	0	0	0	2	0.033333	0.023124	0	Unclassified	chrX:97785492-97792208	4.717
Olfir1023	0	0	0	0	0	0.027385	0	Unclassified	chr2:85724958-85727894	0.937
Lhb	0	0	0	125	2.083333	0	63	Unclassified	chr7:52674315-52677224	0.91
Gucy2e	0	0	0	33	0.55	0.333745	0	Unclassified	chr11:69031618-69052524	18.907
Nkx6-2	0	0	0	27	0.45	0.211988	0.602042	Unclassified	chr7:146767118-146770696	1.579
Foxo4	0	0	0	450	7.5	6.198	3.059473	Unclassified	chrX:98447866-98456211	6.346
Guca2b	0	0	0	7	0.116667	2.05061	1.205742	Unclassified	chr4:119329207-119333550	2.344
Socs6	0	0	0	240	4	1.92401	14.40114	Stalled	chr18:89037271-89065599	26.329
Pcnx	0	0	0	755	12.58333	2.12288	10.76262	Unclassified	chr12:82959016-83101911	140.896
Guca2a	0	0	0	33	0.55	0	0.547741	Unclassified	chr4:119308336-119312070	1.735
Plcx3	0	0	0	79	1.316667	0.06103	2.195119	Unclassified	chr15:4323490-4525579	200.09
Slpi	0	0	0	53	0.883333	88.584	2.261742	Unclassified	chr2:164179806-164184243	2.438
Pglyrp4	0	0	0	15	0.25	0.017273	0	Unclassified	chr3:90528827-90545439	14.613
Slit3	0	0	0	745	12.41667	0.189986	1.325854	Unclassified	chr11:34932957-35522005	587.049
Slit2	0	0	0	157	2.616667	0.131565	2.722031	Unclassified	chr5:48372393-48697017	322.625
Tirap	0	0	0	259	4.316667	2.48373	6.494139	Unclassified	chr9:34994360-35009459	13.1
Agtr1a	0	0	0	31	0.516667	0.145895	0	Unclassified	chr13:30426224-30474736	46.513
Nckap5	0	0	0	636	10.6	0.153946	1.183461	Unclassified	chr1:127810212-128729209	916.998
Akr7a5	0	0	0	181	3.016667	6.94778	36.62182	Stalled	chr4:138864658-138874701	8.044
Kcnp4	0	0	0	293	4.883333	0.111294	0	Unclassified	chr5:48780741-49282796	500.056
Klk1b9	0	0	0	7	0.116667	0.017761	0.453328	Unclassified	chr7:51229430-51235746	4.317
Rab8b	0	0	0	1651	27.51667	9.94103	9.682565	Unclassified	chr9:66691471-66769512	76.042
Spaca5	0	0	0	1	0.016667	0.060077	0	Unclassified	chrX:20643531-20655089	9.559
Mknk1	0	0	0	786	13.1	11.1334	11.39435	Unclassified	chr4:115509850-115551853	40.004
Fam175b	0	0	0	443	7.383333	6.19483	11.80185	Unclassified	chr7:140048907-140076794	25.888
Angpt4	0	0	0	78	1.3	0	0.625682	Unclassified	chr2:151735067-151770390	33.324
4921506M07Rik	0	0	0	45	0.75	0.060659	0	Unclassified	chr12:58663101-58723096	57.996
Gm1381	0	0	0	22	0.366667	0	0.483858	Unclassified	chr5:92998562-93020310	19.749
Cla6	0	0	0	8	0.133333	0.012562	0.754911	Unclassified	chr3:144615449-144640009	22.561
Krt28	0	0	0	13	0.216667	0.020755	0.894361	Unclassified	chr11:99226320-99238217	9.898
Slc22a16	0	0	0	37	0.616667	0	1.472414	Unclassified	chr10:40288167-40323938	33.772
Ythdc1	0	0	0	756	12.6	15.5713	25.66699	Unclassified	chr5:87231514-87265682	32.169
Epb4.115	0	0	0	234	3.9	1.68713	13.49393	Stalled	chr1:121441609-121547577	103.969
Gja5	0	0	0	20	0.333333	0.083295	1.086513	Unclassified	chr3:96834338-96857557	21.22
V1rf1	0	0	0	1	0.016667	0.090621	1	Unclassified	chr17:21363789-21366779	0.991
V1rf2	0	0	0	3	0.05	0	0	Unclassified	chr17:21395390-21399827	2.438
V1re7	0	0	0	0	0	0	0	Unclassified	chr17:21026679-21029615	0.937
V1re8	0	0	0	0	0	0.026953	0	Unclassified	chr17:20981514-20984465	0.952
V1rf5	0	0	0	2	0.033333	0	2	Unclassified	chr17:21130690-21133650	0.961
V1rg2	0	0	0	1	0.016667	0	1	Unclassified	chr7:12339605-12342517	0.913
V1rf3	0	0	0	0	0	0	0	Unclassified	chr17:21448980-21451850	0.871
V1rf4	0	0	0	0	0	0.022866	0	Unclassified	chr17:21421496-21424617	1.122
Cadps2	0	0	0	292	4.866667	0.160773	0.665689	Unclassified	chr6:23212837-23791300	576.464

V1rg3	0	0	0	0	0	0.041477	0	Unclassified	chr7:12776313-12779240	0.928
Eral1	0	0	0	245	4.083333	12.2485	16.11285	Unclassified	chr11:77886877-77895885	7.009
Tigd4	0	0	0	8	0.133333	1.29991	0.76161	Unclassified	chr3:84395495-84400954	3.46
Trmprs11d	0	0	0	24	0.4	0.050113	0	Unclassified	chr5:86731878-86804412	70.535
Rnd1	0	0	0	89	1.483333	0.855036	20.54336	Stalled	chr15:98499635-98509892	8.258
Gdnf	0	0	0	28	0.466667	0.054786	0.505597	Unclassified	chr15:7759010-7787575	26.566
Oc90	0	0	0	48	0.8	0.051353	0.820483	Unclassified	chr15:65707618-65742615	32.998
Ntf5	0	0	0	28	0.466667	0.68554	1.926385	Unclassified	chr7:52667064-52672549	3.486
Gja4	0	0	0	12	0.2	0.126269	1.402231	Unclassified	chr4:126988664-126993222	2.559
Alkbh6	0	0	0	184	3.066667	9.39789	9.173658	Unclassified	chr7:31091771-31099322	5.552
Ptk7	0	0	0	125	2.083333	0.111446	3.312143	Unclassified	chr17:46701399-46768453	65.055
Lfrn3	0	0	0	19	0.316667	0.076154	1.088065	Unclassified	chr7:31140532-31149791	7.26
Mlf2	0	0	0	334	5.566667	63.6162	15.2972	Unclassified	chr6:124879405-124886165	4.761
Aif1l	0	0	0	60	1	0.203864	0.290789	Unclassified	chr2:31803822-31828962	23.141
AU022870	0	0	0	656	10.93333	16.951	4.672536	Unclassified	chr5:144748777-144777722	26.946
Krtap4-7	0	0	0	1	0.016667	0.026209	0	Unclassified	chr11:99504425-99507403	0.979
Dhx36	0	0	0	481	8.016667	4.85811	21.64781	Unclassified	chr3:62272563-62312910	38.348
Pcdhb19	0	0	0	3	0.05	0.019032	0	Unclassified	chr18:37654651-37661365	4.715
Ddr2	0	0	0	122	2.033333	0.047926	0.488673	Unclassified	chr1:171902437-172021075	116.639
Lpo	0	0	0	56	0.933333	0.262598	0.257099	Unclassified	chr11:87619929-87641616	19.688
Glo1	0	0	0	229	3.816667	17.285	13.2575	Unclassified	chr17:30729806-30751604	19.799
Adora1	0	0	0	77	1.283333	0.094286	0.656854	Unclassified	chr1:136095798-136134008	36.211
Tdh	0	0	0	15	0.25	0.252211	0.529333	Unclassified	chr14:64111185-64129929	16.745
Hspd1	0	0	0	823	13.71667	55.1789	16.49167	Unclassified	chr1:55134677-55146776	10.1
Gm14461	0	0	0	40	0.666667	0.021601	0	Unclassified	chr2:78075703-78142387	64.685
Zcchc14	0	0	0	132	2.2	0.083034	1.172193	Unclassified	chr8:124122604-124177833	53.23
Ano5	0	0	0	45	0.75	0.031279	1.336839	Unclassified	chr7:58764398-58854079	87.682
Olfr1136	0	0	0	0	0	0.027473	0	Unclassified	chr2:87533104-87536037	0.934
Fcgr1	0	0	0	31	0.516667	0.064354	2.915395	Unclassified	chr3:96086831-96099892	11.062
Aimp2	0	0	0	693	11.55	30.2879	11.57843	Unclassified	chr5:144663572-144672687	7.116
H2-M10.2	0	0	0	10	0.166667	0	0.371866	Unclassified	chr17:36421225-36425366	2.142
Fcer1g	0	0	0	106	1.766667	1.77193	4.911141	Unclassified	chr1:173159702-173166480	4.779
Fsd1l	0	0	0	30	0.5	0.151565	2.785662	Unclassified	chr4:53642426-53664491	20.066
Efcab5	0	0	0	118	1.966667	0.137595	0	Unclassified	chr11:76903416-77004470	99.055
Creg1	0	0	0	212	3.533333	11.5838	25.32016	Stalled	chr1:167691910-167705435	11.526
Nt5dc1	0	0	0	739	12.31667	3.57595	29.20461	Unclassified	chr10:34023417-34140334	114.918
Gm12581	0	0	0	54	0.9	0.070419	2.081969	Unclassified	chr11:117720065-117726857	4.793
Clrn3	0	0	0	48	0.8	0.023197	0.538206	Unclassified	chr7:142703138-142722337	17.2
Pid1	0	0	0	166	2.766667	0.235425	0.602781	Unclassified	chr1:84032868-84283220	248.353
Dpep3	0	0	0	8	0.133333	0.038121	0.411814	Unclassified	chr8:108497419-108505319	5.901
Zfp300	0	0	0	27	0.45	0.72631	10.16467	Stalled	chrX:20656275-20668355	10.081
B020018G12Rik	0	0	0	1	0.016667	35.5438	1	Unclassified	chr1:177907906-177911247	1.342
Ntsr1	0	0	0	56	0.933333	0.042547	0	Unclassified	chr2:180232680-180279684	45.005
Cnpy1	0	0	0	36	0.6	0.101137	0.487673	Unclassified	chr5:28532002-28566413	32.412
Slc45a1	0	0	0	40	0.666667	0.030003	0.364336	Unclassified	chr4:150003504-150028283	22.78
Flywch1	0	0	0	275	4.583333	9.63005	19.36848	Unclassified	chr17:23892391-23910558	16.168
Zfp568	0	0	0	554	9.233333	1.87511	17.01223	Unclassified	chr7:30766973-30813300	44.328
Poldip2	0	0	0	662	11.03333	17.7541	17.06077	Unclassified	chr11:78323797-78336238	10.442
Pdzd8	0	0	0	599	9.983333	6.40623	30.26068	Unclassified	chr19:59370573-59422270	49.698
Pex5l	0	0	0	83	1.383333	0.041853	1.246722	Unclassified	chr3:32848554-32983958	133.405
Bend3	0	0	0	712	11.86667	1.87364	11.10254	Unclassified	chr10:43196945-43235223	36.279
Nphs2	0	0	0	17	0.283333	0.07835	0.537984	Unclassified	chr1:158238865-158258166	17.302
Ntrk1	0	0	0	34	0.566667	0.064379	1.483691	Unclassified	chr3:87582165-87601084	16.92
Rnase1	0	0	0	2	0.033333	0.105702	0	Unclassified	chr14:51764676-51768442	1.767
Zfp451	0	0	0	579	9.65	3.49318	18.85749	Unclassified	chr1:33818597-33873272	52.676
Klhl6	0	0	0	321	5.35	16.0849	10.86277	Unclassified	chr16:19946585-19985122	36.538
Hist1h2bm	0	0	0	243	4.05	0	225	Unclassified	chr13:21811966-21814347	0.382
Hist1h2bf	0	0	0	207	3.45	0	165	Unclassified	chr13:23665678-23668059	0.382
Olfr1246	0	0	0	1	0.016667	0	0	Unclassified	chr2:89430225-89433303	1.079
Tpsb2	0	0	0	6	0.1	0	1.296422	Unclassified	chr17:25501277-25505037	1.761
4932429P05Rik	0	0	0	3	0.05	0.008287	0.689922	Unclassified	chrX:86995606-87000830	3.225
Ugt2b5	0	0	0	4	0.066667	0.013555	0	Unclassified	chr5:87553973-87571365	15.393
Ugt8a	0	0	0	34	0.566667	0.007122	0.692925	Unclassified	chr3:125568260-125643468	73.209
4930522H14Rik	0	0	0	11	0.183333	0	2.271048	Unclassified	chr4:109177979-109205902	25.924
Slc35a2	0	0	0	311	5.183333	7.13616	13.06718	Unclassified	chrX:7459369-7471618	10.25
Ufd1l	0	0	0	661	11.01667	12.4824	7.226472	Unclassified	chr16:18810386-18835354	22.969
Psg18	0	0	0	6	0.1	0.022341	0.672158	Unclassified	chr7:18931156-18942356	9.201
Psg19	0	0	0	8	0.133333	0.033781	0.582957	Unclassified	chr7:19374473-19385859	9.387
Ssxb10	0	0	0	4	0.066667	0	0.722556	Unclassified	chrX:7902549-7913361	8.813
Vgf	0	0	0	59	0.983333	1.72664	0.385409	Unclassified	chr5:137504164-137509221	3.058
Cdh10	0	0	0	79	1.316667	0.041404	2.152123	Unclassified	chr15:18748083-18943989	193.907
C030034I22Rik	0	0	0	429	7.15	10.7725	0.229698	Unclassified	chr17:69763786-69768530	2.745
Dppa4	0	0	0	9	0.15	0.03087	0	Unclassified	chr16:48281847-48294405	10.559
Plod3	0	0	0	276	4.6	8.34328	12.6884	Unclassified	chr5:137460888-137472514	9.627
Mical2	0	0	0	177	2.95	0.068664	0.83923	Unclassified	chr7:119367403-119496926	127.524
Tcf23	0	0	0	15	0.25	0.11756	1.797222	Unclassified	chr5:31269049-31279391	8.343
Psg17	0	0	0	9	0.15	0	0	Unclassified	chr7:19399285-19408940	7.656
Zzz3	0	0	0	1674	27.9	3.30661	37.77194	Unclassified	chr3:152056973-152125790	66.818
Ntrk3	0	0	0	283	4.716667	0.026756	1.161041	Unclassified	chr7:85336999-85724724	385.726
Olfr943	0	0	0	0	0	0	0	Unclassified	chr9:38989764-38992709	0.946
Dsg3	0	0	0	22	0.366667	0.040558	0.5883	Unclassified	chr18:20666804-20699811	31.008
Ptn	0	0	0	59	0.983333	0.031708	0	Unclassified	chr6:36665662-36763361	95.7
Olfr17	0	0	0	2	0.033333	0	1	Unclassified	chr7:114238980-114241927	0.948
Fam123b	0	0	0	88	1.466667	1.10313	11.84386	Stalled	chrX:92615652-92642179	24.528
Ankrd12	0	0	0	735	12.25	2.30767	47.30887	Stalled	chr17:66316840-66428386	109.547
Gm16379	0	0	0	17	0.283333	129.436	8	Unclassified	chr9:14649687-14652215	0.529

Cldn19	0	0	0	24	0.4	0.066563	0.23074	Unclassified	chr4:118926045-118935043	6.999
Pias2	0	0	0	731	12.18333	11.963	26.78355	Unclassified	chr18:77301946-77394447	90.502
Dusp3	0	0	0	287	4.783333	5.80902	8.661358	Unclassified	chr11:101835472-101848084	10.613
Olfr670	0	0	0	0	0	0	0	Unclassified	chr7:112108305-112111244	0.94
Arhgef6	0	0	0	768	12.8	15.0628	6.362299	Unclassified	chrX:54484664-54593906	107.243
Rnf32	0	0	0	25	0.416667	0.023155	1.066691	Unclassified	chr5:29522545-29551831	27.287
Gm13102	0	0	0	2	0.033333	0.02565	0	Unclassified	chr4:143687782-143700004	10.223
1700049G17Rik	0	0	0	86	1.433333	0.8383	9.913192	Unclassified	chr7:28692410-28716449	22.04
Gm12253	0	0	0	11	0.183333	0.037806	0.472605	Unclassified	chr11:58244060-58255124	9.065
Lmbr1	0	0	0	278	4.633333	0.912039	69.95784	Stalled	chr5:29556341-29706930	148.59
Bace2	0	0	0	144	2.4	0.257287	2.630785	Unclassified	chr16:97576334-97660619	82.286
Olfr18	0	0	0	4	0.066667	0.044347	0	Unclassified	chr9:20118335-20142538	22.204
Cldn14	0	0	0	198	3.3	0.105484	0	Unclassified	chr16:93919275-94011082	89.808
Lekr1	0	0	0	171	2.85	0.222185	42.66965	Stalled	chr3:65468156-65490101	19.946
Olfr976	0	0	0	1	0.016667	0.026129	1	Unclassified	chr9:39763573-39766554	0.982
Olfr361	0	0	0	0	0	0	0	Unclassified	chr2:36940297-36943266	0.97
Olfr434	0	0	0	1	0.016667	0.019885	0	Unclassified	chr6:43164913-43167879	0.967
Olfr731	0	0	0	0	0	0.026129	0	Unclassified	chr14:50857577-50860558	0.982
Olfr495	0	0	0	0	0	0.015561	0	Unclassified	chr7:115536635-115539628	0.994
Tdrkh	0	0	0	27	0.45	0.401417	10.23488	Unclassified	chr3:94215239-94235421	18.183
Fbxo39	0	0	0	36	0.6	0.14232	2.787105	Unclassified	chr11:72125945-72132921	4.977
Ube2q2	0	0	0	523	8.716667	3.78473	24.35318	Unclassified	chr9:54995175-55055328	58.154
Itgb8	0	0	0	56	0.933333	0.281381	3.6485	Unclassified	chr12:120401275-120478749	75.475
Olfr1450	0	0	0	0	0	0.045607	0	Unclassified	chr19:13026080-13029058	0.979
Dek	0	0	0	847	14.11667	34.2704	15.20232	Unclassified	chr13:47180136-47203589	21.454
Sec16b	0	0	0	74	1.233333	0.122778	0	Unclassified	chr1:159434926-159498553	61.628
Gm1123	0	0	0	65	1.083333	0.151946	0.305609	Unclassified	chr9:98907383-98938109	28.727
4922501C03Rik	0	0	0	261	4.35	2.54883	17.18629	Stalled	chr9:87086797-87152367	63.571
Adh5	0	0	0	550	9.166667	36.3858	12.73682	Unclassified	chr3:138104127-138118463	12.337
Cfd	0	0	0	18	0.3	0.111084	0	Unclassified	chr10:79351597-79355401	1.805
Gpr182	0	0	0	21	0.35	0.143749	0.221879	Unclassified	chr10:127186657-127190854	2.198
Wdr76	0	0	0	602	10.03333	4.79962	16.58645	Unclassified	chr2:121330458-121370595	38.138
Ndfip1	0	0	0	883	14.71667	51.8858	17.33649	Unclassified	chr18:38576628-38624060	45.433
Dap3	0	0	0	947	15.78333	10.371	30.91336	Unclassified	chr3:88724724-88756204	29.481
Vps35	0	0	0	728	12.13333	13.862	66.46914	Unclassified	chr8:87784290-87825396	39.107
Ankmy1	0	0	0	59	0.983333	0.035568	1.554384	Unclassified	chr1:94766705-94801483	32.779
Ugt2b34	0	0	0	12	0.2	0.020279	0.617868	Unclassified	chr5:87318794-87337962	17.169
Olfr934	0	0	0	1	0.016667	0	1	Unclassified	chr9:38789694-38792627	0.934
Kcnk18	0	0	0	41	0.683333	0.033816	0.294831	Unclassified	chr19:59292137-59311860	17.724
Nanos1	0	0	0	324	5.4	2.89107	0.538398	Unclassified	chr19:60829889-60835817	3.929
Dnajb2	0	0	0	347	5.783333	9.87492	13.93169	Unclassified	chr1:75230997-75242265	9.269
Dbc1	0	0	0	76	1.266667	0.007642	0.724556	Unclassified	chr4:68422405-68617431	193.027
Plag1	0	0	0	266	4.433333	0.199089	26.00264	Stalled	chr4:3828304-3867552	37.249
Olfr458	0	0	0	0	0	0.049211	0	Unclassified	chr6:42410074-42413016	0.943
Rabgef1	0	0	0	274	4.566667	4.86271	0.834391	Unclassified	chr5:130661049-130690207	27.159
Crnk1	0	0	0	276	4.6	8.6218	6.560082	Unclassified	chr2:145743217-145762436	17.22
Pcdh17	0	0	0	45	0.75	0.190004	2.813679	Unclassified	chr14:84841369-84936867	93.499
Dmrt1	0	0	0	13	0.216667	0.069226	2.888505	Unclassified	chr4:89352888-89361457	6.57
Ankrd58	0	0	0	9	0.15	0.708173	2	Unclassified	chrX:34586839-34590413	1.575
Nbea	0	0	0	327	5.45	0.071182	0	Unclassified	chr3:55429119-55989623	558.505
Hspa4l	0	0	0	140	2.333333	1.94094	31.93598	Stalled	chr3:40547534-40594287	44.754
Chi314	0	130.7236	0	11	0.183333	0.076087	0	Unclassified	chr3:106004408-106024397	17.99
Blmh	0	0	0	773	12.88333	30.4046	16.08888	Unclassified	chr11:76757157-76800891	41.735
Gm853	0	0	0	16	0.266667	0.017414	0	Unclassified	chr4:129886352-129901539	13.188
Gm1527	0	0	0	7	0.116667	0.033214	0	Unclassified	chr3:28789538-28825646	34.109
Dock11	0	0	0	1044	17.4	5.78134	18.1927	Unclassified	chrX:33426826-33616557	187.732
Rcor3	0	0	0	352	5.866667	1.86536	26.15692	Stalled	chr1:193924342-193963669	37.328
Clec2e	0	0	0	8	0.133333	0.023766	0.535994	Unclassified	chr6:129041849-129052934	9.086
Gm2016	0	0	0	3	0.05	0	0	Unclassified	chr12:89110519-89116307	3.789
Ap1ar	0	0	0	409	6.816667	9.86782	23.06626	Unclassified	chr3:127510182-127542410	30.229
Crip3	0	0	0	8	0.133333	0.151672	1.137032	Unclassified	chr17:46563890-46568720	2.831
Slc35f1	0	0	0	215	3.583333	0.090201	0	Unclassified	chr10:52408306-52831428	421.123
Dmx1	0	0	0	902	15.03333	2.13494	51.5406	Stalled	chr18:49990666-50124739	132.074
2200002J24Rik	0	0	0	29	0.483333	0.105052	5.68323	Unclassified	chr7:31481944-31485553	1.61
Gsdmd	0	0	0	153	2.55	16.7034	5.437918	Unclassified	chr15:75690768-75697834	5.067
Piwil4	0	0	0	118	1.966667	0.111784	0.487387	Unclassified	chr9:14506801-14547177	38.377
Slitrk2	0	0	0	1	0.016667	0.011572	0	Unclassified	chrX:63904333-63914576	8.244
Cux2	0	0	0	326	5.433333	0.037599	1.476321	Unclassified	chr5:122310224-122499834	187.611
Olfr1019	0	0	0	4	0.066667	0	3	Unclassified	chr2:85681013-85683946	0.934
Olfr1048	0	0	0	0	0	0	0	Unclassified	chr2:86076027-86078990	0.964
Olfr389	0	0	0	1	0.016667	0	1	Unclassified	chr11:73589888-73592827	0.94
Olfr393	0	0	0	1	0.016667	0	0	Unclassified	chr11:73660686-73663625	0.94
Olfr1052	0	0	0	2	0.033333	0	1	Unclassified	chr2:86135974-86138913	0.94
Acsm4	0	0	0	73	1.216667	0.035717	0.249011	Unclassified	chr7:126831539-126858080	24.542
Dcun1d3	0	0	0	372	6.2	0.930652	15.46754	Stalled	chr7:126996677-127040972	42.296
Cd46	0	0	0	117	1.95	1.87015	42.78735	Stalled	chr1:196868093-196920442	50.35
Bat5	0	0	0	379	6.316667	7.34587	11.46402	Unclassified	chr17:35224235-35239932	13.698
Meis1	0	0	0	146	2.433333	0.955753	9.349232	Unclassified	chr11:18780430-18920683	138.254
Hspa1a	0	0	0	38	0.633333	2.03296	16.10055	Stalled	chr17:35106303-35111101	2.799
4933409G03Rik	0	0	0	16	0.266667	0.057429	0	Unclassified	chr2:68418469-68454520	34.052
Ehd3	0	0	0	145	2.416667	3.59374	6.120973	Unclassified	chr17:74152180-74181433	27.254
Gm11437	0	0	0	24	0.4	0.020925	0.463094	Unclassified	chr11:83961866-83982978	19.113
Kcne3	0	0	0	19	0.316667	0.113979	5.090787	Unclassified	chr7:107325206-107333374	6.169
Rps6	0	0	0	883	14.71667	0	8.827078	Unclassified	chr4:86500002-86505271	3.27
Fbxo33	0	0	0	504	8.4	5.53527	22.60437	Unclassified	chr12:60301641-60322470	18.83
Olfr142	0	0	0	0	0	0.011486	0	Unclassified	chr2:90092225-90095143	0.919

Fam19a1	0	0	0	303	5.05	0.027596	0.643384	Unclassified	chr6:96061147-96607191	544.045
Wwp1	0	0	0	471	7.85	1.21685	50.30376	Stalled	chr4:19536819-19638140	99.322
Fbxl4	0	0	0	470	7.833333	1.57152	38.77221	Stalled	chr4:22282711-22361193	76.483
Prc1	0	0	0	828	13.8	16.3843	10.95133	Unclassified	chr7:87437350-87461145	21.796
Fam38b	0	0	0	271	4.516667	0.035972	0.582927	Unclassified	chr18:63169867-63548837	376.971
Esyt3	0	0	0	83	1.383333	0.102736	1.154817	Unclassified	chr9:99210385-99260949	48.565
Sdk1	0	0	0	963	16.05	0.091836	4.042157	Unclassified	chr5:141715487-142689745	972.259
Casq1	0	0	0	72	1.2	0.075229	0.115419	Unclassified	chr1:174140024-174152026	10.003
Casq2	0	0	0	69	1.15	0.02606	1.45087	Unclassified	chr3:101888432-101950435	60.004
Casr	0	0	0	131	2.183333	0.081896	1.035203	Unclassified	chr16:36493781-36564220	68.44
Ipo8	0	0	0	424	7.066667	5.24168	50.48599	Stalled	chr6:148719205-148781989	60.785
Pbx3	0	0	0	477	7.95	1.74017	21.02043	Stalled	chr2:34027428-34229556	200.129
Irx3	0	0	0	4	0.066667	0.096661	0.480654	Unclassified	chr8:94322423-94327273	2.851
Ltv1	0	0	0	442	7.366667	19.0703	13.04789	Unclassified	chr10:12898443-12914943	14.501
Cdk20	0	0	0	62	1.033333	1.94957	11.41046	Stalled	chr13:64531860-64541029	7.17
Ino80d	0	0	0	1094	18.23333	1.41333	13.62013	Unclassified	chr1:63094374-63162841	66.468
Ugt2b37	0	0	0	8	0.133333	0	0	Unclassified	chr5:87669516-87685813	14.298
Trp53bp1	0	0	0	439	7.316667	5.02958	7.818089	Unclassified	chr2:121022464-121099122	74.659
Mapk4	0	0	0	217	3.616667	0.030561	1.162901	Unclassified	chr18:74088140-74226603	136.464
Padi3	0	0	0	62	1.033333	0.724738	2.82772	Unclassified	chr4:140341283-140368563	25.281
Zfp708	0	0	0	125	2.083333	0.701991	0.368766	Unclassified	chr13:67170333-67200912	28.58
Ngp	0	0	0	15	0.25	0	0.501136	Unclassified	chr9:110320311-110325516	3.206
Enpp2	0	0	0	42	0.7	0.118596	1.345912	Unclassified	chr15:54670452-54753701	81.25
Olfr1248	0	0	0	1	0.016667	0.019576	1	Unclassified	chr2:89457324-89460402	1.079
Zfp799	0	0	0	197	3.283333	1.55775	10.14555	Unclassified	chr17:32954148-32969193	13.046
Nnmt	0	0	0	15	0.25	0.026869	0.465424	Unclassified	chr9:48399994-48415182	13.189
38962	0	0	0	66	1.1	1.21205	1.786854	Unclassified	chr15:82103364-82124872	19.509
Nipal2	0	0	0	59	0.983333	0.043559	1.955932	Unclassified	chr15:34502553-34610461	105.909
Sgcd	0	0	0	235	3.916667	0.027483	0.630636	Unclassified	chr11:46792284-47194804	400.521
Sgcg	0	0	0	39	0.65	0.072924	0.509134	Unclassified	chr14:61837951-61879327	39.377
Olfr1101	0	0	0	0	0	0	0	Unclassified	chr2:86828398-86831331	0.934
Sh3yl1	0	0	0	181	3.016667	7.00349	78.2585	Stalled	chr12:31594533-31645014	48.482
Hdgf	0	0	0	641	10.68333	112.289	7.522987	Unclassified	chr3:87708242-87720054	9.813
Rhbd1l	0	0	0	200	3.333333	4.39301	2.090329	Elongating	chr17:25971409-25976072	2.664
Purg	0	0	0	202	3.366667	3.78202	9.903166	Unclassified	chr8:34494796-34527941	31.146
Dlx5	0	0	0	7	0.116667	0.23232	0.395039	Unclassified	chr6:6827804-6834068	4.265
Dlx4	0	0	0	14	0.233333	0.387111	0.978437	Unclassified	chr11:95001760-95009115	5.356
Dlx6	0	0	0	8	0.133333	0.279622	1.290529	Unclassified	chr6:6811333-6817970	4.638
Dlx1	0	0	0	18	0.3	0.842318	1.839473	Unclassified	chr2:71365501-71372037	4.537
Dlx3	0	0	0	14	0.233333	0.16393	1.861549	Unclassified	chr11:94979448-94986599	5.152
Dlx2	0	0	0	14	0.233333	0.507741	0.75353	Unclassified	chr2:71381464-71386811	3.348
Abo	0	0	0	33	0.55	0.014409	0	Unclassified	chr2:26698022-26722499	22.478
T	0	0	0	13	0.216667	0.100225	0.541109	Unclassified	chr17:8625287-8635361	8.075
Gats2	0	0	0	181	3.016667	2.04478	12.7528	Stalled	chr5:134573617-134617628	42.012
2310007B03Rik	0	0	0	19	0.316667	0.033536	0	Unclassified	chr1:95047931-95059525	9.595
Sav1	0	0	0	482	8.033333	12.2841	24.81809	Unclassified	chr12:71065998-71089989	21.992
Aox4	0	0	0	68	1.133333	0.056709	0.92858	Unclassified	chr1:58265240-58325440	58.201
Nrgn	0	0	0	26	0.433333	3.10166	2.389103	Unclassified	chr9:37352077-37362330	8.254
Iars2	0	0	0	679	11.31667	12.267	23.13819	Unclassified	chr1:187110540-187155280	42.741
Arsb	0	0	0	807	13.45	3.83899	43.36842	Stalled	chr13:94539633-94712971	171.339
Gpr180	0	0	0	272	4.533333	3.19344	12.45038	Unclassified	chr14:118534348-118563454	27.107
Nudt11	0	0	0	0	0	0.13539	0	Unclassified	chrX:5622624-5631869	7.246
Gjb1	0	0	0	7	0.116667	0.265579	0	Unclassified	chrX:98570675-98580963	8.289
Gjc1	0	0	0	27	0.45	0.188114	1.864596	Unclassified	chr11:102660791-102683000	20.21
Asgr1	0	0	0	10	0.166667	0.030883	0	Unclassified	chr11:69865870-69871396	3.527
Gja8	0	0	0	12	0.2	0.027582	0.915569	Unclassified	chr3:96722944-96731853	6.91
Gja3	0	0	0	23	0.383333	0.045416	0	Unclassified	chr14:57654496-57678782	22.287
Gja10	0	0	0	6	0.1	0.109758	0	Unclassified	chr4:32687839-32691357	1.519
S100a11	0	0	0	99	1.65	18.4434	7.610732	Unclassified	chr3:93322417-93330210	5.794
Csad	0	0	0	48	0.8	1.51362	1.29845	Unclassified	chr15:102007428-102021474	12.047
Lrrc27	0	0	0	166	2.766667	2.34872	28.99165	Stalled	chr7:146396886-146428872	29.987
Ryr2	0	0	0	1089	18.15	0.674603	3.396173	Unclassified	chr13:11645369-12201212	553.844
S100a1	0	0	0	194	3.233333	2.9378	4.320226	Unclassified	chr3:90314955-90320252	3.298
Ryr3	0	0	0	342	5.7	0.028281	0.539997	Unclassified	chr2:112471538-112872488	398.951
Dip2c	0	0	0	513	8.55	0.529331	14.52321	Stalled	chr13:9273771-9668171	392.401
Cd207	0	0	0	14	0.233333	0.067366	0.639764	Unclassified	chr6:83621208-83629851	6.644
Ambp	0	0	0	15	0.25	0.062367	0.902355	Unclassified	chr4:62804312-62817176	10.865
6430571L13Rik	0	0	0	208	3.466667	1.01446	3.398219	Unclassified	chr9:107240970-107252014	9.045
Trhde	0	0	0	161	2.683333	0.033598	1.44041	Unclassified	chr10:113835876-114240426	402.551
Pcyt1a	0	0	0	385	6.416667	5.64518	31.9805	Stalled	chr16:32429006-32475151	44.146
Ctla2b	0	0	0	3	0.05	0.079368	0.523356	Unclassified	chr13:60996711-61000808	2.098
Ctla2a	0	0	0	1	0.016667	0.052767	0	Unclassified	chr13:61035515-61039986	2.472
Gm239	0	0	0	147	2.45	0.016349	0	Unclassified	chr10:116213600-116335935	120.336
Gpr77	0	0	0	56	0.933333	0.115866	0.27841	Unclassified	chr7:16819933-16831503	9.571
Slk	0	0	0	341	5.683333	5.31888	21.46939	Stalled	chr19:47652508-47719735	65.228
Olfr206	0	0	0	1	0.016667	0.034773	0	Unclassified	chr16:59344604-59347525	0.922
Olfr1494	0	0	0	1	0.016667	0	0	Unclassified	chr19:13821597-13824545	0.949
Olfr123	0	0	0	1	0.016667	0	0	Unclassified	chr17:37930390-37933320	0.931
Olfr121	0	0	0	0	0	0.029245	0	Unclassified	chr17:37883810-37889949	4.14
Olfr116	0	0	0	1	0.016667	0.029264	1	Unclassified	chr17:37760612-37763578	0.967
Olfr1504	0	0	0	1	0.016667	0.053638	1	Unclassified	chr19:13961750-13964698	0.949
Npnt1	0	0	0	450	7.5	6.21791	21.10393	Unclassified	chr11:29028750-29061828	31.079
Olfr1487	0	0	0	0	0	0.002781	0	Unclassified	chr19:13691653-13694601	0.949
Olfr1489	0	0	0	3	0.05	0	2	Unclassified	chr19:13705602-13708544	0.943
Zfp449	0	0	0	36	0.6	0.12686	11.68692	Stalled	chrX:53597576-53618851	19.276
Syde1	0	0	0	77	1.283333	0.194895	1.382185	Unclassified	chr10:78047247-78056709	7.463

Npb	0	0	0	92	1.533333	0.630311	71	Unclassified	chr11:120467790-120470414	0.625
Myf5	0	0	0	9	0.15	0.049223	1.2785	Unclassified	chr10:106919963-106925190	3.228
Mycs	0	0	0	3	0.05	0.013546	0.576809	Unclassified	chrX:5044021-5048383	2.363
Ppp1r15a	0	0	0	539	8.983333	15.5964	8.106308	Unclassified	chr7:52778289-52783638	3.35
Spag5	0	0	0	554	9.233333	10.695	9.675445	Unclassified	chr11:78113092-78135955	20.864
Avpr1a	0	0	0	6	0.1	0.225521	2.394673	Unclassified	chr10:121883554-121890509	4.956
1500032L24Rik	0	0	0	311	5.183333	143.633	5.21205	Unclassified	chr15:82174475-82179492	3.018
Myf6	0	0	0	3	0.05	0.071886	0.465526	Unclassified	chr10:106929915-106933785	1.871
Myh1	0	0	0	19	0.316667	0.026418	0.579863	Unclassified	chr11:67011615-67038077	24.463
Exosc7	0	0	0	775	12.91667	38.84	22.02074	Unclassified	chr9:123020348-123045247	22.9
Sap18	0	0	0	319	5.316667	12.2607	6.046388	Unclassified	chr14:58415025-58423815	6.791
Sars	0	0	0	518	8.633333	81.548	11.5836	Unclassified	chr3:108229529-108250087	18.559
Sar1a	0	0	0	679	11.31667	22.9945	12.01465	Unclassified	chr10:61141068-61156045	12.978
Sh3pxd2b	0	0	0	113	1.883333	0.120714	1.703542	Unclassified	chr11:32245810-32328183	80.374
Sat1	0	0	0	110	1.833333	13.5805	15.40687	Stalled	chrX:151647681-151652952	3.272
Ahsa2	0	0	0	468	7.8	7.74616	4.034814	Unclassified	chr11:23387881-23399946	10.066
Apoa1	0	0	0	18	0.3	0.585156	0.534575	Unclassified	chr9:46034712-46038549	1.838
Olfr155	0	0	0	3	0.05	0.049119	2	Unclassified	chr4:43865163-43868335	1.173
Olfr156	0	0	0	0	0	0.030547	0	Unclassified	chr4:43833207-43836305	1.099
Hapln3	0	0	0	23	0.383333	0.035775	1.344428	Unclassified	chr7:86261912-86277904	13.993
2900097C17Rik	0	0	0	81	1.35	11.1851	11.23584	Stalled	chr2:156213799-156220715	4.917
Rnf125	0	0	0	80	1.333333	0.13916	0.326082	Unclassified	chr18:21101125-21142349	39.225
Olfr159	0	0	0	3	0.05	0.008237	1	Unclassified	chr4:43782921-43785881	0.961
Gkn1	0	0	0	15	0.25	0.094547	0	Unclassified	chr6:87295646-87302909	5.264
Pcll1	0	0	0	308	5.133333	0.367577	5.93892	Unclassified	chr1:55460789-55811129	348.341
Ccdc113	0	0	0	26	0.433333	0.30223	2.078183	Unclassified	chr8:98055999-98082788	24.79
Wrn	0	0	0	674	11.23333	3.3979	37.82173	Stalled	chr8:34344844-34497999	151.156
Gkn2	0	0	0	13	0.216667	0	0.318083	Unclassified	chr6:87321358-87329488	6.131
Taz	0	0	0	303	5.05	12.8215	20.6444	Stalled	chrX:71526100-71535487	7.388
Ubxn6	0	0	0	503	8.383333	16.4076	1.189626	Elongating	chr17:56207676-56216412	6.737
Rep15	0	0	0	6	0.1	0.156615	4	Unclassified	chr6:146979058-146982040	0.983
Ubi4	0	0	0	136	2.266667	44.0255	12.36879	Unclassified	chrX:71612739-71615866	1.128
Wsb2	0	0	0	384	6.4	7.73131	2.533644	Elongating	chr5:117805313-117828598	21.286
Krtdap	0	0	0	6	0.1	0	0	Unclassified	chr7:31570923-31576102	3.18
Rhot1	0	0	0	507	8.45	5.2736	30.20362	Unclassified	chr11:80020556-80081409	58.854
Pnkp	0	0	0	253	4.216667	15.5424	6.461095	Unclassified	chr7:52110550-52118299	5.75
Stard3	0	0	0	437	7.283333	8.7067	17.00699	Unclassified	chr11:98217697-98242412	22.716
Rnf130	0	0	0	460	7.666667	13.0695	32.96544	Stalled	chr11:49836832-49918235	79.404
Sytl1	0	0	0	66	1.1	0.865333	3.767111	Unclassified	chr4:132809004-132821002	9.999
Sic22a17	0	0	0	41	0.683333	2.40205	6.094036	Unclassified	chr14:55525563-55533969	6.407
C1gal1c1	0	0	0	158	2.633333	3.32433	18.35424	Stalled	chrX:35983959-35990320	4.362
Chtf18	0	0	0	240	4	10.3002	11.98289	Unclassified	chr17:25855974-25866360	8.387
Csrnp3	0	0	0	106	1.766667	0.016783	0.627288	Unclassified	chr2:65681823-65681541	177.719
Socs2	0	0	0	1694	28.23333	12.9956	4.054655	Unclassified	chr10:94874123-94881491	5.369
Sypl2	0	0	0	37	0.616667	0.063154	2.569011	Unclassified	chr3:108015183-108031517	14.335
Eea1	0	0	0	585	9.75	2.7001	39.47311	Stalled	chr10:95401296-95508152	104.857
Eepd1	0	0	0	186	3.1	1.34253	16.23116	Stalled	chr9:25287181-25411695	122.515
1700028P14Rik	0	0	0	60	1	0	0	Unclassified	chr19:23633249-23729302	94.054
Zfp474	0	0	0	17	0.283333	0.033203	0	Unclassified	chr18:52773568-52799484	23.917
Fmr1nb	0	0	0	10	0.166667	0	3.497077	Unclassified	chrX:66013013-66057733	42.721
Gm266	0	0	0	11	0.183333	0.179619	6	Unclassified	chr12:112722821-112726034	1.214
Scpep1	0	0	0	713	11.88333	37.3857	8.985278	Unclassified	chr11:88785335-88818756	31.422
Erlec1	0	0	0	329	5.483333	6.44172	37.95274	Stalled	chr11:30829783-30856131	24.349
4833422F24Rik	0	0	0	12	0.2	0.032762	1.081491	Unclassified	chr2:165220949-165227894	4.946
4933415F23Rik	0	0	0	2	0.033333	0.258057	0	Unclassified	chr1:23107312-23111092	1.781
Nle1	0	0	0	556	9.266667	23.3942	4.083443	Unclassified	chr11:82714270-82723897	7.628
Rtkn2	0	0	0	141	2.35	0.746333	8.470179	Unclassified	chr10:67440345-67506612	64.268
Adck5	0	0	0	452	7.533333	6.96143	5.040491	Unclassified	chr15:76404788-76426241	19.454
Gm6812	0	0	0	1	0.016667	0	0	Unclassified	chrX:66145547-66148228	0.682
Sic35a3	0	0	0	388	6.466667	3.1578	19.42199	Unclassified	chr3:116373715-116417198	41.484
Tmem135	0	0	0	856	14.26667	5.05855	30.00148	Stalled	chr7:96288230-96489297	199.068
4930555I21Rik	0	0	0	93	1.55	0.07539	1.287451	Unclassified	chr4:135049901-135093718	41.818
Aox1	0	0	0	93	1.55	0.035016	4.98161	Unclassified	chr1:58084812-58163254	76.443
Fam117b	0	0	0	528	8.8	4.54825	28.08586	Stalled	chr1:59967849-60042190	72.342
2010007H12Rik	0	0	0	296	4.933333	22.6128	3.092435	Unclassified	chr5:138218145-138221335	1.191
Pcdh19	0	0	0	31	0.516667	0.214917	2.369057	Unclassified	chrX:130117399-130225532	106.134
Cdkn2b	0	0	0	207	3.45	4.08426	3.133891	Unclassified	chr4:88952197-88958941	4.745
Selenbp1	0	0	0	29	0.483333	1.48892	8.865895	Unclassified	chr3:94735004-94748680	11.677
Hif1a	0	0	0	686	11.43333	8.75767	33.40335	Unclassified	chr12:75006853-75048516	39.664
Cdkn1c	0	0	0	17	0.283333	0.694025	3.630573	Unclassified	chr7:150644246-150648955	2.71
Exosc10	0	0	0	1458	24.3	21.7021	7.312594	Unclassified	chr4:147930535-147956507	23.973
Pld6	0	0	0	38	0.633333	1.0468	1.679247	Unclassified	chr11:59597394-59603159	3.766
Olfr872	0	0	0	13	0.216667	0	0	Unclassified	chr9:20039605-20065357	23.753
Exosc9	0	0	0	415	6.916667	15.4197	7.353636	Unclassified	chr3:36449527-36446469	13.123
Olig1	0	0	0	10	0.166667	0.076745	0.842761	Unclassified	chr16:91268013-91272184	2.172
Grb14	0	0	0	85	1.416667	0.652895	5.337195	Unclassified	chr2:64750539-64862823	110.285
Qtrt1	0	0	0	353	5.883333	18.5852	9.843289	Unclassified	chr9:21214280-21224723	8.444
Mapk14	0	0	0	881	14.68333	13.7864	17.40037	Unclassified	chr17:28826286-28885349	57.064
Myadm	0	0	0	449	7.483333	18.5234	2.029648	Elongating	chr7:3287038-3299350	10.313
Skint3	0	0	0	23	0.383333	0.017668	0	Unclassified	chr4:111902849-111973073	68.225
Olfr1086	0	0	0	0	0	0	0	Unclassified	chr2:86516555-86519488	0.934
Olfr1111	0	0	0	0	0	0.027327	0	Unclassified	chr2:86989878-86992816	0.939
Prkag1	0	0	0	421	7.016667	13.2295	17.83575	Unclassified	chr15:98643227-98663939	18.713
Rgs9	0	0	0	132	2.2	0.510763	4.945051	Unclassified	chr11:109086668-109161495	72.828
Kcne1	0	0	0	22	0.366667	0.012187	0.384028	Unclassified	chr16:92346245-92361713	13.469
Prkar1a	0	0	0	794	13.23333	64.2639	13.26384	Unclassified	chr11:109510262-109530962	18.701

Rgs2	0	0	0	205	3.416667	3.32583	29.75119	Stalled	chr1:145846467-145853279	4.813
Kcnd1	0	0	0	19	0.316667	0.288302	1.076724	Unclassified	chrX:7398968-7413629	12.662
Rgs5	0	0	0	34	0.566667	0.056678	0	Unclassified	chr1:171583631-171623657	38.027
Prkar2b	0	0	0	245	4.083333	1.34123	15.83117	Stalled	chr12:32643343-32748144	102.802
Rgl1	0	0	0	348	5.8	1.01527	8.69892	Unclassified	chr1:154364659-154474241	107.583
Kcnc1	0	0	0	137	2.283333	0.321102	1.715819	Unclassified	chr7:53649837-53694074	42.238
Rgn	0	0	0	4	0.066667	0	0	Unclassified	chrX:20124943-20139213	12.271
Retnlg	0	0	0	2	0.033333	0.084457	0	Unclassified	chr16:48870720-48874610	1.891
Prpf18	0	0	0	391	6.516667	11.552	10.07827	Unclassified	chr2:4543212-4575132	29.921
8030411F24Rik	0	0	0	2	0.033333	0.1706	0.745482	Unclassified	chr2:148605744-148611672	3.929
Zfand5	0	0	0	716	11.93333	7.71128	28.63754	Unclassified	chr19:21344767-21356779	10.013
Itgb1	0	0	0	104	1.733333	0.02175	0	Unclassified	chr14:124057361-124373301	313.941
Cel	0	0	0	66	1.1	0.025155	0.733303	Unclassified	chr2:28411339-28420882	7.544
Zfp27	0	0	0	280	4.666667	2.05345	16.63014	Unclassified	chr7:30678355-30693123	12.769
Zfp26	0	0	0	644	10.73333	1.0298	14.12459	Unclassified	chr9:20232761-20266604	31.844
Lyz16	0	0	0	12	0.2	0	0.985581	Unclassified	chr11:103492388-103502188	7.801
Sell	0	0	0	400	6.666667	12.7116	2.852262	Elongating	chr1:165990206-166010915	18.71
Prdx6-rs1	0	0	0	1	0.016667	0.844804	1	Unclassified	chr2:80130628-80135513	2.886
D1Bwg0212e	0	0	0	338	5.633333	9.65959	15.37178	Unclassified	chr1:39590646-39603722	11.077
Cyp3a59	0	0	0	14	0.233333	0.02561	0.717557	Unclassified	chr5:146888833-146924859	34.027
Vmn2r1	0	0	0	13	0.216667	0.044038	0	Unclassified	chr3:63883563-63909380	23.818
Prss21	0	0	0	7	0.116667	0.0357	1.005346	Unclassified	chr17:24003038-24010080	5.043
Habp4	0	0	0	230	3.833333	4.26488	23.54418	Stalled	chr13:64261173-64287845	24.673
4931440L10Rik	0	0	0	3	0.05	0.066015	0.835472	Unclassified	chr1:136437522-136445599	6.078
Svs1	0	0	0	11	0.183333	0	0.600637	Unclassified	chr6:48934859-48941721	4.863
Mettl11b	0	0	0	11	0.183333	0.024343	0.679908	Unclassified	chr1:165633123-165657363	22.241
C130079G13Rik	0	0	0	7	0.116667	0.018381	0	Unclassified	chr3:59727135-59741871	12.737
Mylk2	0	0	0	13	0.216667	0.065212	0	Unclassified	chr2:152735087-152748801	11.715
Tnfsf18	0	0	0	40	0.666667	0.161603	0.863307	Unclassified	chr1:163422787-163435419	10.633
Cypr1	0	0	0	51	0.85	0.195428	0	Unclassified	chr16:85456489-85552618	94.13
Asb4	0	0	0	57	0.95	0.074128	0.996282	Unclassified	chr6:5331385-5383021	49.637
Dpysl5	0	0	0	124	2.066667	0.229729	2.167579	Unclassified	chr5:31012267-31101742	87.476
Asb3	0	0	0	682	11.36667	2.63071	52.39274	Stalled	chr11:30852397-31002704	148.308
Tas2r105	0	0	0	0	0	0.028386	0	Unclassified	chr6:131636578-131639481	0.904
Olfr519	0	0	0	1	0.016667	0	0	Unclassified	chr7:116036974-116039919	0.946
Rora	0	0	0	743	12.38333	0.194895	0.494277	Unclassified	chr9:68499608-69226835	725.228
AI854703	0	0	0	101	1.683333	0.677942	0.160536	Unclassified	chr6:48576165-48583687	5.523
Rom1	0	0	0	297	4.95	6.69325	7.64624	Unclassified	chr19:9001871-9005846	1.976
C2cd3	0	0	0	926	15.43333	6.03565	23.90523	Unclassified	chr7:107518742-107618668	97.927
Gm8909	0	0	0	8	0.133333	0	0.459557	Unclassified	chr17:36301917-36307467	3.551
Ros1	0	0	0	81	1.35	0.02078	0	Unclassified	chr10:51765731-51917050	149.32
Rorc	0	0	0	47	0.783333	0.015361	2.27416	Unclassified	chr3:94174747-94202161	25.415
Ppp2r2a	0	0	0	1334	22.23333	14.7972	12.33321	Unclassified	chr14:67634507-67693266	56.76
Trp63	0	0	0	131	2.183333	0.064914	0	Unclassified	chr16:25681850-25892174	208.325
Gm732	0	0	0	0	0	0	0	Unclassified	chrX:105141073-105145775	2.703
Trpc5	0	0	0	120	2	0.021576	2.169252	Unclassified	chrX:140816213-141124723	306.511
Lrrc61	0	0	0	186	3.1	3.42067	19.31096	Stalled	chr6:48502797-48520721	15.925
Capsl	0	0	0	72	1.2	0.338698	0	Unclassified	chr15:9363782-9395790	30.009
Foxf1a	0	0	0	13	0.216667	0.162905	0.520436	Unclassified	chr8:123606373-123610779	2.407
Lrrc40	0	0	0	465	7.75	4.71312	39.57057	Unclassified	chr3:157697666-157731442	31.777
Dnal1	0	0	0	309	5.15	0.248906	0.320873	Unclassified	chr4:124732582-124744901	10.32
Ep400	0	0	0	2248	37.46667	14.7149	23.47439	Unclassified	chr5:111093391-111201736	106.346
Butr1	0	0	0	20	0.333333	1.37036	0.345264	Unclassified	chr11:58729558-58740467	8.91
Ash11	0	0	0	1045	17.41667	5.11279	0.689637	Unclassified	chr3:88767733-88883297	113.565
Pkhd11	0	0	0	53	0.883333	0.057318	0.73099	Unclassified	chr15:44287098-44428681	139.584
Med9	0	0	0	683	11.38333	12.7018	4.464595	Unclassified	chr11:59759715-59776808	15.094
Tbc1d12	0	0	0	282	4.7	1.48874	36.84904	Stalled	chr19:38909068-38994413	83.346
Lcn9	0	0	0	8	0.133333	0.030551	0.580889	Unclassified	chr2:25676672-25681057	2.386
Olfr222	0	0	0	3	0.05	0.026784	2	Unclassified	chr11:59384283-59387240	0.958
Acb5	0	0	0	61	1.016667	0.16537	0.623239	Unclassified	chr12:120106297-120206894	98.598
Cd4	0	0	0	39	0.65	0.086961	0	Unclassified	chr6:124814710-124840227	23.518
Usp44	0	0	0	173	2.883333	0.883134	1.627362	Elongating	chr10:93292299-93311283	16.985
Foxo6	0	0	0	54	0.9	0.272268	0.910897	Unclassified	chr4:119939682-119961866	20.185
Gm7073	0	0	0	2	0.033333	0	0.95036	Unclassified	chrX:57689226-57711370	20.145
Gpa33	0	0	0	70	1.166667	0.033536	0.680278	Unclassified	chr1:168058590-168096641	36.052
Cd59a	0	0	0	36	0.6	1.17484	7.699523	Unclassified	chr2:103933957-103955508	19.552
Tlx2	0	0	0	19	0.316667	0.428998	0.413686	Unclassified	chr6:83018318-83022219	1.902
Tlx1	0	0	0	23	0.383333	0.120015	0.940933	Unclassified	chr19:45223204-45231432	6.229
Wbscr17	0	0	0	351	5.85	0.048871	1.667221	Unclassified	chr5:131350820-131785392	432.573
Tnpo2	0	0	0	1078	17.96667	17.0863	4.881949	Unclassified	chr8:87558813-87581481	20.669
BC016579	0	0	0	23	0.383333	0.222181	1.740944	Unclassified	chr16:45626960-45656231	27.272
Gng10	0	0	0	271	4.516667	29.2671	9.204352	Unclassified	chr4:59046027-59054771	6.745
Nr2e1	0	0	0	32	0.533333	0.17839	1.355948	Unclassified	chr10:42281776-42305394	21.619
Otop1	0	0	0	35	0.583333	0.085415	1.38753	Unclassified	chr5:38666642-38695456	26.815
Il1rl1	0	0	0	19	0.316667	0.072065	0	Unclassified	chr1:40494493-40522259	25.767
Krt24	0	0	0	11	0.183333	0.166939	1.116085	Unclassified	chr11:99141406-99148552	5.147
Sfrs9	0	0	0	435	7.25	61.9217	6.422029	Unclassified	chr5:115775185-115783089	5.905
Eif4b	0	0	0	1243	20.71667	95.4197	6.309686	Unclassified	chr15:101902203-101927604	23.402
Chrn4	0	0	0	38	0.633333	0.167277	1.539194	Unclassified	chr9:54875962-54898351	20.39
Olfm12b	0	0	0	114	1.9	0.915041	6.053265	Unclassified	chr1:172572662-172612920	38.259
Tmod2	0	0	0	66	1.1	0.107501	0.853923	Unclassified	chr9:75413428-75461132	45.705
Nme6	0	0	0	310	5.166667	10.3944	21.55761	Unclassified	chr9:109733307-109745475	10.169
Cyp4x1	0	0	0	25	0.416667	0.042048	1.027422	Unclassified	chr4:114781286-114808582	25.297
E4f1	0	0	0	464	7.733333	8.37855	19.35921	Unclassified	chr17:24580723-24594256	11.534
Idh2	0	0	0	310	5.166667	25.0554	13.25053	Unclassified	chr7:87239735-87262236	20.502
Ereg	0	0	0	18	0.3	0.009296	3.105669	Unclassified	chr5:91501642-91522675	19.034

Ssfa2	0	0	0	540	9	4.30996	21.44391	Unclassified	chr2:79473581-79513121	37.541
Amelx	0	0	0	4	0.066667	0	0	Unclassified	chrX:165614045-165627141	11.097
Ap4e1	0	0	0	475	7.916667	3.87304	21.40573	Unclassified	chr2:126832446-126895550	61.105
Ube4b	0	0	0	866	14.433333	12.1442	12.25011	Unclassified	chr4:148702524-148802740	98.217
Sic29a1	0	0	0	116	1.933333	6.92307	0.809182	Unclassified	chr17:45722170-45731342	7.173
Gm6086	0	0	0	9	0.15	0.068763	0	Unclassified	chr1:95885085-95908116	21.032
Lsm1	0	0	0	543	9.05	3.77929	35.28441	Unclassified	chr8:26894062-26914447	18.386
Smoc2	0	0	0	149	2.483333	0.049781	1.394978	Unclassified	chr17:14414512-14541797	125.286
Smoc1	0	0	0	145	2.416667	0.392412	0.527622	Unclassified	chr12:82125794-82287400	159.607
Ankrd43	0	0	0	12	0.2	1.02719	0.493267	Unclassified	chr11:53290079-53295697	3.619
Sprr2j-ps	0	0	0	3	0.05	0	1	Unclassified	chr3:92220008-92223318	1.311
Sprr2k	0	0	0	2	0.033333	0	0	Unclassified	chr3:92234503-92237849	1.347
D10Ert610e	0	0	0	68	1.133333	0.576149	4.217557	Unclassified	chr10:126619577-126629110	7.534
Sprr2i	0	0	0	3	0.05	0.014634	0	Unclassified	chr3:92209912-92213193	1.282
Sprr2f	0	0	0	2	0.033333	0	0	Unclassified	chr3:92167108-92170364	1.257
Echdc1	0	0	0	300	5	4.69993	30.84845	Stalled	chr10:29030971-29066467	33.497
Alg11	0	0	0	277	4.616667	2.6357	16.90571	Unclassified	chr8:23169191-23178761	7.571
Creg2	0	0	0	58	0.966667	0.333601	1.517248	Unclassified	chr1:39675250-39710027	32.778
Zfp507	0	0	0	820	13.66667	4.79568	7.58464	Unclassified	chr7:36557368-36590008	30.641
Gm4745	0	0	0	1	0.016667	0	0	Unclassified	chr7:15243056-15251345	6.29
Gm13242	0	0	0	9	0.15	0	0	Unclassified	chr4:145258599-145294340	33.742
Pkd1l3	0	0	0	514	8.566667	1.07445	7.048269	Unclassified	chr8:112136416-112196492	58.077
Rpf1	0	0	0	601	10.01667	20.5485	10.5154	Unclassified	chr3:146169309-146186387	15.079
Plod2	0	0	0	88	1.466667	0.668849	13.53984	Stalled	chr9:92435060-92503258	66.199
Mapkapk5	0	0	0	499	8.316667	12.8244	14.14077	Unclassified	chr5:121975059-121997901	20.843
Rapsn	0	0	0	42	0.7	0.189871	1.815406	Unclassified	chr2:90873783-90885886	10.104
C1ql3	0	0	0	23	0.383333	0.265216	0.665499	Unclassified	chr2:12923513-12934491	8.979
AI428936	0	0	0	51	0.85	0.615259	4.31275	Unclassified	chr7:31097834-31104064	4.231
Usp7	0	0	0	2300	38.333333	28.2785	2.771347	Elongating	chr16:8688814-8740435	49.622
Mios	0	0	0	505	8.416667	4.74967	20.6539	Unclassified	chr6:8157226-8186271	27.046
Sic16a2	0	0	0	57	0.95	0.443791	2.099538	Unclassified	chrX:100892752-101019327	124.576
Sic16a7	0	0	0	73	1.216667	0.201331	0.584922	Unclassified	chr10:124664540-124767591	101.052
Sic13a2	0	0	0	55	0.916667	0.064345	1.662541	Unclassified	chr11:78210777-78237687	24.911
Sic16a1	0	0	0	920	15.333333	9.54613	21.71401	Unclassified	chr3:104440590-104462385	19.796
Sic17a1	0	0	0	29	0.483333	0.070844	0	Unclassified	chr13:23960141-23987598	25.458
Gm9897	0	0	0	33	0.55	1.14067	0	Unclassified	chr5:4190366-4197651	5.286
Zp3	0	0	0	13	0.216667	0.058389	0	Unclassified	chr5:136453974-136464494	8.521
Tnk1	0	0	0	70	1.166667	0.066376	0.095372	Unclassified	chr11:69664064-69674232	8.169
Cenpq	0	0	0	186	3.1	6.29188	23.59811	Stalled	chr17:41060003-41073500	11.498
Nedd4l	0	0	0	1171	19.51667	1.28201	7.91543	Unclassified	chr18:65045409-65377480	330.072
Asah2	0	0	0	231	3.85	0.876897	2.776818	Unclassified	chr19:32059140-32179630	118.491
Trim40	0	0	0	20	0.333333	0.115026	0.853803	Unclassified	chr17:37018542-37028990	8.449
Zp2	0	0	0	6	0.1	0.023302	0	Unclassified	chr7:127275874-127290804	12.931
Mtmr9	0	0	0	411	6.85	11.5101	17.72707	Unclassified	chr14:64142446-64164790	20.345
I11f6	0	0	0	6	0.1	0	0.698931	Unclassified	chr2:24068936-24081221	10.286
Skint1	0	0	0	14	0.233333	0	0	Unclassified	chr4:111676873-111702143	23.271
Hes3	0	0	0	20	0.333333	0.210219	0.226754	Unclassified	chr4:151660080-151667771	5.692
Txnrd3	0	0	0	331	5.516667	1.75331	19.96342	Unclassified	chr6:89591981-89625523	31.543
Nfatc2ip	0	0	0	309	5.15	6.67136	15.31317	Unclassified	chr7:133526367-133542251	13.885
Xoc6b	0	0	0	410	6.833333	1.59494	15.23622	Stalled	chr6:84568480-85021507	451.028
4921521F21Rik	0	0	0	20	0.333333	0	1.142787	Unclassified	chr1:65059659-65081322	19.664
Spata16	0	0	0	201	3.35	0.082685	0	Unclassified	chr3:26534552-26882134	345.583
Dpp10	0	0	0	311	5.183333	0.024918	1.396328	Unclassified	chr1:125228715-125944136	713.422
Nlrp9a	0	0	0	12	0.2	0.006143	0.77589	Unclassified	chr7:27318083-27359165	39.083
Prelp	0	0	0	12	0.2	0.03205	1.586091	Unclassified	chr1:135806883-135819978	11.096
Lap3	0	0	0	372	6.2	15.6625	9.811682	Unclassified	chr5:45882612-45903930	19.319
Sic22a13	0	0	0	19	0.316667	0.131211	0.470768	Unclassified	chr9:119102102-119120223	16.122
Edaradd	0	0	0	199	3.316667	5.05275	9.106212	Unclassified	chr13:12569174-12614715	43.542
Fosb	0	0	0	126	2.1	2.03621	2.50283	Elongating	chr7:19888044-19897394	7.351
Fosl1	0	0	0	215	3.583333	1.99342	1.928372	Elongating	chr19:5445697-5455938	8.242
Paf1	0	0	0	432	7.2	31.2528	13.01511	Unclassified	chr7:29176014-29184402	6.389
1700023I07Rik	0	0	0	0	0	0	0	Unclassified	chrX:22036757-22039524	0.768
Gzma	0	0	0	7	0.116667	2.0432	1.103621	Unclassified	chr13:113884034-113893189	7.156
Fpr2	0	0	0	8	0.133333	0.138401	0	Unclassified	chr17:18022787-18030916	6.13
Gabra4	0	0	0	32	0.533333	0.080821	1.51547	Unclassified	chr5:71960972-72051547	88.576
Zfp664	0	0	0	308	5.133333	7.77202	16.39872	Unclassified	chr5:125341074-125369000	25.927
Gpatch8	0	0	0	921	15.35	7.96799	29.18464	Unclassified	chr11:102337231-102419472	80.242
BC048599	0	0	0	2	0.033333	0.038955	0	Unclassified	chr6:40845260-40852386	5.127
Aoc2	0	0	0	423	7.05	3.10611	2.380225	Elongating	chr11:101184376-101191008	4.633
Ptpn9	0	0	0	514	8.566667	5.84628	21.6732	Stalled	chr9:56840774-56910614	67.841
Apln	0	0	0	7	0.116667	0.199379	2.439671	Unclassified	chrX:45378322-45390029	9.708
Pgc	0	0	0	21	0.35	0.037041	0.517825	Unclassified	chr17:47861790-47871427	7.638
Flg2	0	0	0	15	0.25	0.016699	0	Unclassified	chr3:92999194-93025298	24.105
1700027A23Rik	0	0	0	13	0.216667	2.56891	5.752075	Unclassified	chr3:105799874-105806415	4.542
1700028K03Rik	0	0	0	37	0.616667	7.68514	1.160392	Unclassified	chr5:107961729-107977396	13.668
Gm4858	0	0	0	1	0.016667	0.065184	1	Unclassified	chr3:92870744-92879427	6.684
Olfr196	0	0	0	2	0.033333	0.023457	0	Unclassified	chr16:59167037-59169967	0.931
Afgf2	0	0	0	426	7.1	11.9661	10.35396	Unclassified	chr5:138092081-138127845	33.765
Prss8	0	0	0	84	1.4	0.042009	0.216349	Unclassified	chr7:135069236-135075627	4.392
Snta1	0	0	0	85	1.416667	1.09664	6.234996	Unclassified	chr2:154202049-154235820	31.772
Gm5124	0	0	0	7	0.116667	3.71069	3.669859	Unclassified	chrX:20935990-20941748	3.759
Pecr	0	0	0	232	3.866667	6.71482	9.75717	Unclassified	chr1:72305748-72332888	25.141
Trim60	0	0	0	25	0.416667	0.089663	0.422049	Unclassified	chr8:67523951-67544476	18.526
94300700I3Rik	0	0	0	23	0.383333	0.0833	0	Unclassified	chr1:158295059-158332121	35.063
Dbn1d1	0	0	0	312	5.2	0.515929	0.257265	Unclassified	chr8:126029587-126041355	9.769
Iigp	0	0	0	17	0.283333	4.00528	0	Unclassified	chr11:48759651-48794883	33.233

Mettl2	0	0	0	452	7.533333	8.74683	8.677843	Unclassified	chr11:104985738-105002459	14.722
Ip6k3	0	0	0	43	0.716667	0.122325	1.08902	Unclassified	chr17:27280915-27306709	23.795
Gm13177	0	0	0	8	0.333333	0	0.553941	Unclassified	chr4:144201609-144213301	9.693
Pbld	0	0	0	20	0.333333	0.023032	0.93487	Unclassified	chr10:62522364-62540284	15.921
BC048562	0	0	0	27	0.45	0.037311	0.263871	Unclassified	chr9:108336812-108348414	9.603
6330416L07Rik	0	0	0	248	4.133333	4.07061	5.509235	Unclassified	chr17:22474955-22500367	23.413
BY080835	0	0	0	282	4.7	0.302748	1.352509	Elongating	chr9:107495397-107501406	4.01
Atp6v0d2	0	0	0	51	0.85	0.066565	0.472184	Unclassified	chr4:19803984-19851713	45.73
Slc2a7	0	0	0	40	0.666667	0.056853	1.410116	Unclassified	chr4:149521080-149542591	19.512
5730410E15Rik	0	0	0	80	1.333333	0.092046	0.59629	Unclassified	chr15:44503402-44621609	116.208
Herc4	0	0	0	865	14.41667	5.98004	39.61274	Unclassified	chr10:62704732-62780625	73.894
Tctex1d1	0	0	0	14	0.233333	0.013463	0.669324	Unclassified	chr4:102656983-102678199	19.217
Olfr357	0	0	0	0	0	0	0	Unclassified	chr2:36850331-36853258	0.928
Spata21	0	0	0	376	6.266667	0.0561	0.237475	Unclassified	chr4:140642259-140668674	24.416
Brix1	0	0	0	639	10.65	16.2963	16.42127	Unclassified	chr15:10404533-10417692	11.16
1700065I17Rik	0	0	0	73	1.216667	0	4.293286	Unclassified	chr18:56746001-56754433	6.433
Frem1	0	0	0	89	1.483333	0.024787	0	Unclassified	chr4:82543830-82669006	123.177
Olfr982	0	0	0	4	0.066667	0.05307	1	Unclassified	chr9:39879881-39882847	0.967
Pvrl1	0	0	0	171	2.85	0.488747	2.666432	Unclassified	chr9:43550658-43615544	62.887
Gm4984	0	0	0	10	0.166667	0.040958	6	Unclassified	chrX:12227008-12229946	0.939
Gm14160	0	0	0	9	0.15	0.03107	0	Unclassified	chr2:151471139-151496269	23.131
Zfp473	0	0	0	200	3.333333	0.82523	14.67608	Stalled	chr7:51986855-52005987	17.133
Olfr921	0	0	0	2	0.033333	0	2	Unclassified	chr9:38578672-38583939	3.268
Galr1	0	0	0	17	0.283333	0.071425	0	Unclassified	chr18:82561887-82578169	14.283
Galnt3	0	0	0	45	0.75	0.212214	5.696178	Unclassified	chr2:65920822-65964850	42.029
Galnt1	0	0	0	1036	17.26667	8.66399	28.17791	Unclassified	chr18:24362494-24445311	80.818
Galc	0	0	0	261	4.35	2.33501	40.28888	Stalled	chr12:99440509-99499547	57.039
Ogt	0	0	0	622	10.36667	15.4546	13.08083	Unclassified	chrX:98833402-98879688	44.287
Adamts6	0	0	0	290	4.833333	0.592709	3.352572	Unclassified	chr13:105075952-105284843	206.892
Galr2	0	0	0	17	0.283333	1.15611	0.666944	Unclassified	chr11:116140252-116145252	3.001
Olfr1491	0	0	0	0	0	0.01335	0	Unclassified	chr19:13777318-13780278	0.961
Ccdc90a	0	0	0	265	4.416667	8.18244	26.66202	Stalled	chr13:43636927-43657530	18.604
Las1l	0	0	0	255	4.25	18.7746	30.59723	Stalled	chrX:93130651-93154298	21.648
Depdc1a	0	0	0	167	2.783333	1.15866	31.74781	Stalled	chr3:159156414-159192540	34.127
Olfr1265	0	0	0	0	0	0.026324	0	Unclassified	chr2:89875077-89878007	0.931
Olfr1495	0	0	0	1	0.016667	0	0	Unclassified	chr19:13840833-13843793	0.961
Ag1	0	0	0	283	4.716667	0.897602	56.75098	Stalled	chr3:116442916-116513084	68.169
Slc30a2	0	0	0	23	0.383333	0.156935	0.934558	Unclassified	chr4:133896984-133908580	9.597
Fbxw24	0	0	0	12	0.2	0.012918	0	Unclassified	chr9:109503630-109530571	24.942
5730601F06Rik	0	0	0	513	8.55	1.5597	19.21968	Unclassified	chr9:20299519-20327863	26.345
Epas1	0	0	0	205	3.416667	0.467498	9.880337	Unclassified	chr17:87151203-87232750	79.548
B3galtl	0	0	0	184	3.066667	0.471048	21.83031	Stalled	chr5:150478831-150565174	84.344
Pnma5	0	0	0	2	0.033333	0.033727	0	Unclassified	chrX:70279326-70284442	3.117
4930434E21Rik	0	0	0	98	1.633333	0.025819	0.922662	Unclassified	chr5:150329253-150414469	83.217
Tor1a	0	0	0	438	7.3	25.4196	7.036149	Unclassified	chr2:30816146-30825404	7.259
Vmn2r49	0	0	0	0	0	0.00206	0	Unclassified	chr7:10561593-10579488	15.896
Aym1	0	0	0	1	0.016667	0.485409	1	Unclassified	chr5:113784313-113786841	0.529
Fbxw22	0	0	0	10	0.166667	0.032441	0.756743	Unclassified	chr9:109280924-109308810	25.887
Gm12776	0	0	0	6	0.1	0	1.048525	Unclassified	chr7:34878449-34885856	5.408
Skint11	0	0	0	17	0.283333	0.093778	0	Unclassified	chr4:113833988-113917633	81.646
Skint6	0	0	0	148	2.466667	0	2.30551	Unclassified	chr4:112477220-112961578	482.359
Homez	0	0	0	33	0.55	0.939824	1.03114	Unclassified	chr14:55471573-55481327	7.755
Nrsn2	0	0	0	25	0.416667	0.074298	0.489752	Unclassified	chr2:152194493-152204302	7.81
Slc46a2	0	0	0	65	1.083333	0.055994	0.626084	Unclassified	chr4:59918770-59929928	9.159
Olfr275	0	0	0	0	0	0	0	Unclassified	chr4:52836270-52839228	0.959
Ppp2r2b	0	0	0	287	4.783333	0.057684	0.59181	Unclassified	chr18:42804922-43221125	414.204
Nxt1	0	0	0	217	3.166667	24.5564	14.20205	Stalled	chr2:148496350-148501762	3.413
Glycam1	0	0	0	4	0.066667	0	0.397227	Unclassified	chr15:103393192-103397509	2.318
Gsg1	0	0	0	48	0.8	0.12749	0.54257	Unclassified	chr6:135187347-135206354	17.008
Tbk1	0	0	0	1391	23.18333	13.1365	12.27281	Unclassified	chr10:120983514-121025850	40.337
Shroom2	0	0	0	62	1.033333	0.041045	1.45194	Unclassified	chrX:149044051-149206004	159.954
Aqp8	0	0	0	10	0.166667	0.051613	0	Unclassified	chr7:130603807-130611517	5.711
Adra2a	0	0	0	31	0.516667	0.903369	1.490267	Unclassified	chr19:54117671-54123472	3.802
Upk3b	0	0	0	24	0.4	0.062949	0.93604	Unclassified	chr5:136512365-136520863	6.499
Adra2c	0	0	0	10	0.166667	0.144274	0.478095	Unclassified	chr5:35619214-35624412	3.199
Adra2b	0	0	0	20	0.333333	0.380883	2.660058	Unclassified	chr2:127187021-127192957	3.937
Snx13	0	0	0	642	10.7	1.82491	62.55653	Stalled	chr12:35729860-35832144	100.285
Olfr1279	0	0	0	0	0	0.033997	0	Unclassified	chr2:111144357-111147299	0.943
Olfr356	0	0	0	2	0.033333	0	2	Unclassified	chr2:36790640-36793588	0.949
Olfr720	0	0	0	0	0	0	0	Unclassified	chr14:15007643-15010594	0.952
Olfr1350	0	0	0	1	0.016667	0.027651	1	Unclassified	chr7:6520703-6523630	0.928
Olfr1323	0	0	0	0	0	0.041343	0	Unclassified	chrX:47362482-47365412	0.931
Olfr1347	0	0	0	2	0.033333	0.033328	1	Unclassified	chr7:6440623-6443583	0.961
Olfr461	0	0	0	1	0.016667	0.040816	1	Unclassified	chr6:40494034-40496976	0.943
Tnfrsf22	0	0	0	161	2.683333	1.67608	15.63627	Stalled	chr7:150822629-150837543	12.915
Ano1	0	0	0	220	3.666667	0.017573	0.815884	Unclassified	chr7:151774555-151926383	149.829
Suv39h2	0	0	0	582	9.7	2.74201	17.90708	Unclassified	chr2:3373087-3394258	19.172
Ube2h	0	0	0	881	14.68333	7.17867	14.46214	Unclassified	chr6:30161288-30256539	93.252
Hoxb2	0	0	0	5	0.083333	0.141617	0	Unclassified	chr11:96210945-96215328	2.384
Pgr15l	0	0	0	1	0.016667	0.009531	0	Unclassified	chrX:94265934-94277443	9.51
Eda2r	0	0	0	16	0.266667	0.043575	0	Unclassified	chrX:94529180-94574548	43.369
Zc4h2	0	0	0	23	0.383333	1.16533	7.645958	Unclassified	chrX:92834535-92855771	19.237
Ube2g2	0	0	0	949	15.81667	25.8419	10.57815	Unclassified	chr10:77083065-77108735	23.671
Ankrd5	0	0	0	21	0.35	0.037654	1.667818	Unclassified	chr2:136356056-136381590	23.535
Larp1b	0	0	0	341	5.683333	6.14651	24.77566	Stalled	chr3:40752552-40781715	27.164
E130012A19Rik	0	0	0	211	3.516667	10.8065	10.74109	Stalled	chr11:97488700-97493030	2.331

Sumo1	0	0	0	526	8.766667	17.0973	32.08661	Unclassified	chr1:59696277-59729678	31.402
Psmc4	0	0	0	794	13.23333	7.62452	45.94162	Unclassified	chr11:30669774-30780361	108.588
St6gal2	0	0	0	43	0.716667	0	1.135238	Unclassified	chr17:55583014-55638524	53.511
Ebf4	0	0	0	121	2.016667	0.288007	2.378218	Unclassified	chr2:130119674-130196217	74.544
Mrps24	0	0	0	255	4.25	39.7143	14.39098	Unclassified	chr11:5603985-5609702	3.718
Inpp1	0	0	0	289	4.816667	7.67373	1.656067	Elongating	chr7:108971145-108988740	15.596
BC011426	0	0	0	190	3.166667	1.25058	25.81033	Stalled	chr17:56029515-56038353	6.839
Lars	0	0	0	741	12.35	18.4467	22.613	Unclassified	chr18:42362002-42423725	59.724
Ctnnb1	0	0	0	1414	23.56667	48.5801	7.462133	Unclassified	chr9:120840517-120869624	27.108
Ins2	0	0	0	1	0.016667	0	0	Unclassified	chr7:149864565-149867613	1.049
Sico2b1	0	0	0	92	1.533333	0.014627	0.373835	Unclassified	chr7:106806313-106861850	53.538
Olfr420	0	0	0	4	0.066667	0.183791	2	Unclassified	chr1:176086852-176089898	1.047
Tssk2	0	0	0	66	1.1	0.069242	1.284375	Unclassified	chr16:17896729-17900117	1.389
Txn14a	0	0	0	1269	21.15	69.5605	9.156788	Unclassified	chr18:80401536-80422590	19.055
Taar8b	0	0	0	0	0	0.01127	0	Unclassified	chr10:23811065-23814100	1.036
Srr	0	0	0	732	12.2	1.63315	10.27024	Unclassified	chr11:74719860-74741300	19.441
Dnajb9	0	0	0	444	7.4	12.0223	54.23565	Stalled	chr12:45306883-45313055	4.173
Add3	0	0	0	750	12.5	10.1013	0.739013	Unclassified	chr19:53216486-53321888	103.403
Insr	0	0	0	612	10.2	1.79561	13.38749	Stalled	chr8:3150921-3281617	128.697
Tbl2	0	0	0	536	8.933333	7.63359	15.33074	Unclassified	chr5:135623580-135638532	12.953
Mc5r	0	0	0	8	0.133333	0.143384	1.07074	Unclassified	chr18:68495256-68499365	2.11
2700029M09Rik	0	0	0	572	9.533333	13.6939	9.49085	Unclassified	chr8:63367247-63386368	17.122
Ppp2r2d	0	0	0	710	11.83333	8.57287	12.03009	Unclassified	chr7:146036068-146074739	36.672
Hmgb2	0	0	0	807	13.45	61.1521	6.703517	Unclassified	chr8:59988639-59994796	4.158
Rho	0	0	0	14	0.233333	0.055448	0	Unclassified	chr6:115879944-115888848	6.905
Zhx3	0	0	0	364	6.066667	0.878103	67.93301	Stalled	chr2:160596182-160700726	102.545
Trim34	0	0	0	218	3.633333	5.55094	13.28587	Stalled	chr7:111390970-111410750	17.781
Zfp459	0	0	0	55	0.916667	0.625027	14.38424	Stalled	chr13:67506657-67524354	15.698
Hyal3	0	0	0	248	4.133333	0.876195	2.181867	Elongating	chr9:107481626-107489688	6.063
Smgc	0	0	0	12	0.2	0	0.688561	Unclassified	chr15:91666758-91691866	23.109
Ms4a4d	0	0	0	34	0.566667	0.082972	0.814674	Unclassified	chr19:11609338-11632956	21.619
Atp4b	0	0	0	52	0.866667	0.106239	1.250621	Unclassified	chr8:13386208-13398778	10.571
Chst5	0	0	0	31	0.516667	0.172209	0.817919	Unclassified	chr8:114413034-114436099	21.066
Ostc	0	0	0	478	7.966667	76.4115	13.34524	Unclassified	chr3:130398836-130414336	13.501
Gm5938	0	0	0	2	0.033333	0	0	Unclassified	chrX:75368805-75375742	4.938
Tas2r102	0	0	0	0	0	0	0	Unclassified	chr6:132710148-132713192	1.045
Olfr1413	0	0	0	2	0.033333	0.072505	1	Unclassified	chr1:94467749-94470721	0.973
Olfr283	0	0	0	3	0.05	0	2	Unclassified	chr15:98208609-98211539	0.931
Olfr711	0	0	0	1	0.016667	0	0	Unclassified	chr7:114114881-114120965	4.085
Olfr713	0	0	0	1	0.016667	0.019702	0	Unclassified	chr7:114177649-114180624	0.976
Olfr714	0	0	0	0	0	0	0	Unclassified	chr7:114215343-114218297	0.955
Olfr705	0	0	0	1	0.016667	0	0	Unclassified	chr7:114016806-114019757	0.952
Olfr1122	0	0	0	2	0.033333	0.026129	0	Unclassified	chr2:87225863-87228844	0.982
Olfr1134	0	0	0	2	0.033333	0.095542	1	Unclassified	chr2:87496137-87499076	0.94
Olfr1120	0	0	0	1	0.016667	0	0	Unclassified	chr2:87195602-87198547	0.946
Gzmn	0	0	0	8	0.133333	0.053737	0.56528	Unclassified	chr14:56784632-56795433	8.802
Cyp2c37	0	0	0	4	0.066667	0.045033	0	Unclassified	chr19:40064913-40086733	19.821
Tulp2	0	0	0	196	3.266667	2.38317	0.039714	Unclassified	chr7:52767075-52777973	8.899
Krt71	0	0	0	12	0.2	0.017686	0.425587	Unclassified	chr15:101564379-101575528	9.15
Cyp2c38	0	0	0	16	0.266667	0.023762	0.828613	Unclassified	chr19:39464045-39539565	73.521
Mocs1	0	0	0	324	5.4	4.51538	16.41246	Unclassified	chr17:49565688-49594755	27.068
Mdm2	0	0	0	888	14.8	27.4026	8.719343	Unclassified	chr10:117125960-117149772	21.813
Mdm1	0	0	0	277	4.616667	2.19421	60.72704	Stalled	chr10:117576842-117606053	27.212
Blzf1	0	0	0	242	4.033333	4.19166	16.86184	Stalled	chr1:166219930-166239615	17.686
Vax2	0	0	0	60	1	0.415777	1.388129	Unclassified	chr6:83659257-83688298	27.042
Mdfi	0	0	0	32	0.533333	0.150162	0.80955	Unclassified	chr17:47952280-47973640	19.361
Olfr1426	0	0	0	2	0.033333	0.045855	0.764095	Unclassified	chr19:12162099-12168337	4.239
1300018J18Rik	0	0	0	473	7.883333	6.17214	9.638876	Unclassified	chr15:88917536-88930770	11.235
Avpr1b	0	0	0	17	0.283333	0.064885	1.377627	Unclassified	chr1:133493690-133508577	12.888
6530401N04Rik	0	0	0	288	4.8	4.88803	33.84263	Stalled	chr12:53098493-53109488	8.996
Olfr910	0	0	0	2	0.033333	0.019772	2	Unclassified	chr9:38343466-38347412	1.947
Olfr869	0	0	0	0	0	0	0	Unclassified	chr9:19931563-19942531	8.969
Pdcd7	0	0	0	532	8.866667	10.3199	23.52473	Unclassified	chr9:65191874-65207450	13.577
Olfr907	0	0	0	0	0	0	0	Unclassified	chr9:38304255-38307188	0.934
Olfr862	0	0	0	0	0	0	0	Unclassified	chr9:19687826-19690747	0.922
Cbfa2t2	0	0	0	466	7.766667	1.23007	13.2823	Stalled	chr2:154260219-154365092	102.874
Runx1t1	0	0	0	101	1.683333	0.162048	1.207578	Unclassified	chr4:13668448-13820790	150.343
Runx2	0	0	0	520	8.666667	6.04945	0.577321	Unclassified	chr17:44740949-44953746	210.798
Cav2	0	0	0	11	0.183333	0.564605	3.846863	Unclassified	chr6:17229340-17239011	7.672
Repin1	0	0	0	217	3.616667	2.87843	5.251192	Unclassified	chr6:48541881-48549081	5.201
Cd209b	0	0	0	5	0.083333	0.012689	0	Unclassified	chr8:3917656-3928814	9.159
Bhmt2	0	0	0	19	0.316667	0	2.848181	Unclassified	chr13:94426051-94446257	18.207
Aqp4	0	0	0	11	0.183333	0.063048	0	Unclassified	chr18:15547902-15564193	14.292
Bola1	0	0	0	413	6.883333	20.0195	335	Unclassified	chr3:96000510-96003509	1
Zar1	0	0	0	5	0.083333	0.814523	3	Unclassified	chr5:72968354-72974323	3.97
Slc24a5	0	0	0	268	4.466667	0.52458	0.068471	Unclassified	chr2:124891862-124914413	20.552
Olfr651	0	0	0	3	0.05	0	3	Unclassified	chr7:111699434-111702376	0.943
Gm5447	0	0	0	133	2.216667	0.989483	64.55609	Stalled	chr13:31064032-31068117	2.086
Tbc1d4	0	0	0	426	7.1	2.53167	10.95469	Stalled	chr14:101841576-102010408	166.833
Mgst2	0	0	0	342	5.7	13.9871	3.760199	Unclassified	chr3:51463114-51486597	21.484
Olfr987	0	0	0	2	0.033333	0.027529	2	Unclassified	chr2:85171123-85174053	0.931
Gm10696	0	0	0	1	0.016667	0.00921	1	Unclassified	chr3:93978333-93984115	3.783
Cox15	0	0	0	715	11.91667	4.83295	25.553	Unclassified	chr19:43807743-43829490	19.748
38781	0	0	0	766	12.76667	5.9028	32.20354	Unclassified	chr15:31385653-31462792	75.14
AI837181	0	0	0	302	5.033333	17.9658	3.525922	Unclassified	chr19:5423143-5427314	2.172
Prss35	0	0	0	6	0.1	0.01016	1.536124	Unclassified	chr9:86634433-86650678	14.246

Arl13b	0	0	0	223	3.716667	2.7816	24.16037	Stalled	chr16:62793514-62848866	53.353
Etaa1	0	0	0	355	5.916667	4.3202	27.39376	Unclassified	chr11:17838752-17855878	15.127
Ino80	0	0	0	1855	30.91667	5.72007	32.23396	Unclassified	chr2:119198778-119305365	104.588
Sync	0	0	0	3	0.05	0.046019	2	Unclassified	chr7:29323903-29327229	1.327
Ppdm16	0	0	0	588	9.8	0.631425	1.061411	Unclassified	chr4:153690233-154012982	320.75
Lalba	0	0	0	13	0.216667	0.03497	0.613365	Unclassified	chr15:98310830-98315114	2.285
Rnf180	0	0	0	147	2.45	0.318292	0	Unclassified	chr13:105937573-106085094	145.522
Lysmd4	0	0	0	252	4.2	1.50364	1.481696	Elongating	chr7:74365493-74373342	5.85
Zbtb2	0	0	0	604	10.06667	3.72509	10.53454	Unclassified	chr10:5956432-5979467	21.036
Ppfa2	0	0	0	162	2.7	0.063447	0.743623	Unclassified	chr10:105905394-106369573	462.18
Pdha2	0	0	0	0	0	0.239761	0	Unclassified	chr3:140872967-140877319	2.353
Iqcj	0	0	0	84	1.4	0.63317	0	Unclassified	chr3:67694141-67860515	164.375
Gli2	0	0	0	263	4.383333	0.051586	0.913407	Unclassified	chr1:120730637-120952196	219.56
Gli1	0	0	0	125	2.083333	0.094837	0.08186	Unclassified	chr10:126766937-126780635	11.699
Pdgfa	0	0	0	34	0.566667	0.555585	3.822411	Unclassified	chr5:139452928-139472907	17.98
Pdgfb	0	0	0	49	0.816667	0.161184	0.579133	Unclassified	chr15:79826305-79847238	18.934
Pdha1	0	0	0	330	5.5	23.2099	21.08329	Unclassified	chrX:156560150-156578268	16.119
Gli3	0	0	0	178	2.966667	0.048673	1.207838	Unclassified	chr13:15553555-15821858	266.304
Slc2a12	0	0	0	140	2.333333	0.265729	0.296971	Unclassified	chr10:22362816-22423686	58.871
Gm5346	0	0	0	1	0.016667	0.009866	0	Unclassified	chr8:44710328-44714539	2.212
Gsx1	0	0	0	8	0.133333	0.122956	7	Unclassified	chr5:147998271-148002522	2.252
4932411N23Rik	0	0	0	0	0	0.01506	0	Unclassified	chrX:123346993-123352397	3.405
Lama1	0	0	0	124	2.066667	0.051168	1.53317	Unclassified	chr17:68044604-68171985	125.382
Ngrn	0	0	0	361	6.016667	18.5286	17.89627	Unclassified	chr7:87404100-87410264	4.165
Fam19a3	0	0	0	28	0.466667	0.201925	2.509831	Unclassified	chr3:104570323-104582465	10.143
Dis3l	0	0	0	493	8.216667	5.33008	23.93043	Unclassified	chr9:64154815-64190997	34.183
Atp6ap2	0	0	0	418	6.966667	11.6399	23.68493	Unclassified	chrX:12162884-12194175	29.292
Ccdc129	0	0	0	71	1.183333	0.019513	0.667588	Unclassified	chr6:55785011-55928592	141.582
Cux1	0	0	0	2835	47.25	9.12181	7.851977	Unclassified	chr5:136724004-137045301	319.298
Cugbp1	0	0	0	1086	18.1	13.8418	14.74296	Unclassified	chr2:90778614-90857210	76.597
Pou1f1	0	0	0	3	0.05	0.043892	0	Unclassified	chr16:65518963-65534316	13.354
Olf305	0	0	0	1	0.016667	0.040051	1	Unclassified	chr7:93511885-93514845	0.961
Olf986	0	0	0	1	0.016667	0.050508	0	Unclassified	chr9:39992663-39995678	1.016
Klk1b4	0	0	0	5	0.083333	0.038217	1.24812	Unclassified	chr7:51460804-51467123	4.32
Smug1	0	0	0	177	2.95	1.77673	8.40967	Unclassified	chr15:102983720-102995715	9.996
Olf270	0	0	0	3	0.05	0	1	Unclassified	chr4:52981500-52984439	0.94
Osbp3	0	0	0	315	5.25	0.686127	0.679969	Unclassified	chr6:50243325-50334836	89.512
Fam13c	0	0	0	92	1.533333	0.030567	0.562637	Unclassified	chr10:69901415-70021479	118.065
Lce1d	0	0	0	0	0	0.084997	0	Unclassified	chr3:92489420-92493132	1.713
Golga4	0	0	0	865	14.41667	10.2163	8.123194	Unclassified	chr9:118413435-118491637	76.203
Serpinc3a	0	0	0	3	0.05	0	1.702292	Unclassified	chr1:108942163-108950880	6.718
Plat	0	0	0	47	0.783333	0.08605	1.940714	Unclassified	chr8:23866215-23893320	25.106
Pdim4	0	0	0	26	0.433333	0.108337	1.492092	Unclassified	chr11:53868431-53884519	14.089
Fkbp3	0	0	0	462	7.7	30.9399	18.38007	Unclassified	chr12:66163418-66176925	11.508
Esam	0	0	0	60	1	0.25605	3.843164	Unclassified	chr9:37333673-37345902	10.23
Svil	0	0	0	1033	17.21667	5.85975	5.474659	Unclassified	chr18:4918564-5119288	198.725
Tnfrsf19	0	0	0	112	1.866667	1.64588	4.98419	Unclassified	chr14:61582670-61667692	83.023
Olf320	0	0	0	1	0.016667	0.042503	0	Unclassified	chr11:58495376-58498297	0.922
Sgtb	0	0	0	180	3	0.606334	33.30021	Stalled	chr13:104897869-104931521	31.653
Grip2	0	0	0	132	2.2	0.029904	1.050665	Unclassified	chr6:91711502-91759387	45.886
2410012M07Rik	0	0	0	2	0.033333	0	0	Unclassified	chr9:98763185-98766999	1.815
Pappa	0	0	0	145	2.416667	0.03603	0	Unclassified	chr4:64783207-65018543	233.337
2310021H06Rik	0	0	0	7	0.116667	0	0	Unclassified	chr2:153986342-153994182	5.841
4930511Ii1Rik	0	0	0	21	0.35	0.058203	1.231115	Unclassified	chr17:28665805-28675918	8.114
Kcna10	0	0	0	16	0.266667	0.269552	0.942229	Unclassified	chr3:106984060-106998639	12.58
Abca8a	0	0	0	40	0.666667	0.032365	0.624957	Unclassified	chr11:109886947-109954934	65.988
4930412F15Rik	0	0	0	45	0.75	0.079966	8.150456	Unclassified	chr4:43672493-43683731	9.239
Tmem8b	0	0	0	93	1.55	0.673613	6.967673	Unclassified	chr4:43679842-43705539	23.698
Baalc	0	0	0	20	0.333333	0.022145	0.476089	Unclassified	chr15:38763454-38782810	17.357
Rnf181	0	0	0	287	4.783333	29.0893	8.220018	Unclassified	chr6:72309707-72314375	2.669
Fam71f1	0	0	0	26	0.433333	0.121137	0.861295	Unclassified	chr6:29267139-29286022	16.884
Cul7	0	0	0	336	5.6	5.03001	18.37147	Unclassified	chr17:46785286-46801313	14.028
Gjc2	0	0	0	99	1.65	0.129756	3.34797	Unclassified	chr11:58989065-58998715	7.651
Aqp1	0	0	0	22	0.366667	0.455072	0.372067	Unclassified	chr6:55284292-55298549	12.258
Gpr35	0	0	0	28	0.466667	0.099401	0.329291	Unclassified	chr1:94867695-94882968	13.274
Arl6ip6	0	0	0	896	14.93333	10.349	42.00004	Unclassified	chr2:53049117-53078255	27.139
Trim50	0	0	0	39	0.65	0.044133	2.464945	Unclassified	chr5:135827165-135843524	14.36
Rcl1	0	0	0	965	16.08333	19.1891	10.64988	Unclassified	chr19:29173864-29218333	42.47
Chrm2	0	0	0	1	0.016667	0	0	Unclassified	chr6:36471169-36474774	1.606
Slc17a6	0	0	0	26	0.433333	0.017801	0	Unclassified	chr7:58875199-58926496	49.298
Lce1l	0	0	0	3	0.05	0	3	Unclassified	chr3:92653870-92657208	1.339
Rab2a	0	0	0	842	14.03333	22.0775	12.77056	Unclassified	chr4:8460790-8534849	72.06
Pdzk1	0	0	0	176	2.933333	0.724486	0.949719	Unclassified	chr3:96631987-96674848	40.862
Usp14	0	0	0	704	11.73333	5.39488	13.69055	Unclassified	chr18:9993612-10032147	36.536
Med12	0	0	0	336	5.6	11.7486	9.699201	Unclassified	chrX:98467429-98494273	24.845
Nampt	0	0	0	1016	16.93333	8.35648	17.25659	Unclassified	chr12:33503199-33538233	33.035
Huwe1	0	0	0	2241	37.35	23.3886	35.00605	Unclassified	chrX:148235824-148369961	132.138
Lpl	0	0	0	29	0.483333	0.123447	1.54189	Unclassified	chr8:71402453-71430831	26.379
Rbm27	0	0	0	766	12.76667	5.87011	30.03971	Unclassified	chr18:42433006-42501192	66.187
Rassf8	0	0	0	10	0.166667	0.377168	0	Unclassified	chr6:145754902-145766104	9.203
ENSMUSG00000	0	0	0	274	4.566667	14.3001	10.5814	Unclassified	chr10:112362483-112368082	3.6
Sema3f	0	0	0	81	1.35	0.169978	1.472756	Unclassified	chr9:107583832-107614806	28.975
Best3	0	0	0	54	0.9	0.315812	0.415836	Unclassified	chr10:116421369-116462096	38.728
App	0	0	0	461	7.683333	5.51455	9.456437	Unclassified	chr16:84954687-85175948	219.262
Cntfr	0	0	0	56	0.933333	0.076578	0.426017	Unclassified	chr4:41604529-41646123	39.595
Cdh16	0	0	0	23	0.383333	0.062737	0.698116	Unclassified	chr8:107138046-107150161	10.116

Cdh2	0	0	0	134	2.233333	0.047334	0.6259	Unclassified	chr18:16747385-16969558	220.174
Rnft1	0	0	0	548	9.133333	2.59227	23.63283	Unclassified	chr11:86296158-86312509	14.352
Cyp3a41b	0	0	0	1	0.016667	0.036273	0	Unclassified	chr5:146319532-146347599	26.068
Memo1	0	0	0	1120	18.66667	9.92041	36.39441	Unclassified	chr17:74600045-74696323	94.279
Tmx1	0	0	0	408	6.8	17.7571	47.50164	Stalled	chr12:71552140-71568611	14.472
Cobl	0	0	0	154	2.566667	0.025094	0.597671	Unclassified	chr11:12136678-12366963	228.286
Gstm7	0	0	0	11	0.183333	0.387822	3.671817	Unclassified	chr3:107729251-107736663	5.413
Tas2r139	0	0	0	1	0.016667	0.040051	1	Unclassified	chr6:42088934-42091894	0.961
Pnp1a5	0	0	0	25	0.416667	0.022697	0.605653	Unclassified	chr15:83943050-83955605	10.556
Zmym1	0	0	0	326	5.433333	3.27894	19.45688	Unclassified	chr4:126724337-126740376	14.04
Tpx2	0	0	0	701	11.68333	26.0633	9.627428	Unclassified	chr2:152671699-152721057	47.359
Brsk2	0	0	0	254	4.233333	0.112957	0.887149	Unclassified	chr7:149133655-149190148	54.494
Trib3	0	0	0	135	2.25	3.855	13.22605	Stalled	chr2:152163160-152171796	6.637
Tchh1	0	0	0	1	0.016667	0.01861	0	Unclassified	chr3:93270675-93275902	3.228
Uchl3	0	0	0	717	11.95	32.6027	9.867315	Unclassified	chr14:102051183-102095342	42.16
Clic5	0	0	0	111	1.85	0.395128	0.456188	Unclassified	chr17:44323520-444171117	91.598
Enpp4	0	0	0	24	0.4	0.31765	4.794872	Unclassified	chr17:44233258-44244757	9.5
E330017A01Rik	0	0	0	5	0.083333	0.056793	0.416683	Unclassified	chr16:58635374-58640516	3.143
Rfng	0	0	0	174	2.9	8.33118	16.91312	Stalled	chr11:120642058-120647518	3.461
5430407P10Rik	0	0	0	47	0.783333	0.590238	4.141482	Unclassified	chr2:6019545-6053231	31.687
Ikzf5	0	0	0	234	3.9	2.4502	27.16291	Stalled	chr7:138532162-138555992	21.831
Resp18	0	0	0	13	0.216667	0.054154	0.320148	Unclassified	chr1:75268776-75276955	6.18
Kcnd3	0	0	0	268	4.466667	0.03933	1.365912	Unclassified	chr3:105253247-105476920	221.674
Bex1	0	0	0	1	0.016667	0.353525	0	Unclassified	chrX:132748510-132752052	1.543
Irak1bp1	0	0	0	249	4.15	5.0587	46.83928	Stalled	chr9:82721412-82741295	17.884
Rev3l	0	0	0	1116	18.6	2.02456	52.79628	Stalled	chr10:39449965-39595011	143.047
Btbd12	0	0	0	408	6.8	7.17764	0.692772	Unclassified	chr16:3979122-4003680	22.559
Zfp161	0	0	0	188	3.133333	3.1296	18.71073	Stalled	chr17:69731317-69739884	6.568
Zfp148	0	0	0	1444	24.06667	2.45301	34.77144	Unclassified	chr16:33378860-33503989	123.13
Olfr635	0	0	0	0	0	0.009356	0	Unclassified	chr7:111125689-111128654	0.966
1700019M22Rik	0	0	0	2	0.033333	0.084876	2	Unclassified	chr12:97284828-97287432	0.605
Gcm2	0	0	0	12	0.2	0.102388	0.45662	Unclassified	chr13:41196795-41207357	8.563
Mthfs	0	0	0	66	1.1	8.37112	5.530926	Unclassified	chr9:89104027-89135063	29.037
1700016C15Rik	0	0	0	50	0.833333	0	0.985196	Unclassified	chr1:179657944-179683436	23.493
Klk7	0	0	0	4	0.066667	0.036723	0	Unclassified	chr7:51064813-51071729	4.917
Sic7a11	0	0	0	96	1.6	0	5.317864	Unclassified	chr3:50168857-50249535	78.679
Arl6ip5	0	0	0	404	6.733333	63.966	7.615213	Unclassified	chr6:97158785-97183309	22.525
Nudt19	0	0	0	474	7.9	13.1544	15.72487	Unclassified	chr7:36332203-36342947	8.745
Asb17	0	0	0	10	0.166667	0.122293	0.582463	Unclassified	chr3:153505210-153516579	9.37
D1Pas1	0	0	0	4	0.066667	1.07294	1.377529	Unclassified	chr1:188789294-188794506	3.213
Rpl10	0	0	0	708	11.8	0	4.78457	Unclassified	chrX:71514154-71518473	2.32
Nudt15	0	0	0	169	2.816667	1.34558	0	Unclassified	chr14:73919670-73950049	28.38
Fpgt	0	0	0	181	3.016667	0.943138	27.93438	Stalled	chr3:154747882-154758342	8.461
1700019G17Rik	0	0	0	47	0.783333	1.76064	6.729525	Unclassified	chr6:85849044-85856932	5.889
Gm13088	0	0	0	0	0	0.014075	0	Unclassified	chr4:143243662-143249149	3.488
Olfr1256	0	0	0	2	0.033333	0	1	Unclassified	chr2:89675179-89678100	0.922
Il20rb	0	0	0	240	4	0.951656	1.106893	Unclassified	chr9:100358137-100388892	28.756
Tmem192	0	0	0	455	7.583333	12.8569	29.84764	Unclassified	chr8:67469083-67492933	21.851
3110007F17Rik	0	0	0	37	0.616667	1.26014	30.62795	Stalled	chrX:120215167-120256902	39.736
Ppp1r16a	0	0	0	256	4.266667	5.63316	8.596917	Unclassified	chr15:76500109-76525345	23.237
Olfr1203	0	0	0	2	0.033333	0.016723	2	Unclassified	chr2:88669275-88672199	0.925
Fut11	0	0	0	688	11.46667	6.8322	14.83346	Unclassified	chr14:21512189-21519419	5.231
Ccdc79	0	0	0	101	1.683333	0.265016	26.93623	Stalled	chr8:106970618-107035787	63.17
Tcf7l1	0	0	0	305	5.083333	0.635415	4.361295	Unclassified	chr6:72576373-72740950	162.578
Sparcl1	0	0	0	29	0.483333	0.053504	0.548234	Unclassified	chr5:104508129-104545107	34.979
Ecm1	0	0	0	158	2.633333	1.34267	3.739243	Unclassified	chr3:95538070-95545492	5.423
Eda	0	0	0	97	1.616667	0.315487	0.817011	Unclassified	chrX:97168944-97596099	425.156
Ect2	0	0	0	746	12.43333	5.76968	12.12673	Unclassified	chr3:26996147-27054758	56.612
Flna	0	0	0	1058	17.63333	49.7328	6.076401	Unclassified	chrX:71468799-71493873	23.075
1700018A14Rik	0	0	0	70	1.166667	10.3613	65	Unclassified	chr18:46356674-46359385	0.712
Sgpp1	0	0	0	300	5	9.93355	15.71125	Unclassified	chr12:76815234-76838716	21.483
Elp4	0	0	0	560	9.333333	2.82745	54.99943	Stalled	chr2:105540265-105746657	204.393
Fam195b	0	0	0	363	6.05	24.0121	11.19799	Unclassified	chr11:120404201-120413041	6.841
Eif4a3	0	0	0	841	14.01667	68.8194	7.534844	Unclassified	chr11:119149676-119163357	11.682
Acot11	0	0	0	167	2.783333	1.2828	2.379516	Unclassified	chr4:106417165-106474436	55.272
2410042D21Rik	0	0	0	296	4.933333	2.55547	23.86955	Stalled	chr2:112217367-112254394	35.028
Fam132b	0	0	0	389	6.483333	0.359677	0.309593	Unclassified	chr1:93261006-93270794	7.789
Olfr1214	0	0	0	1	0.016667	0	0	Unclassified	chr2:88827421-88830357	0.937
Sost	0	0	0	19	0.316667	0.75667	0	Unclassified	chr11:101823772-101830329	4.558
Cdc16	0	0	0	483	8.05	9.87714	9.983443	Unclassified	chr8:13755689-13781882	24.194
Angptl2	0	0	0	126	2.1	0	1.248892	Unclassified	chr2:33069480-33103234	31.755
Amotl1	0	0	0	122	2.033333	0.197909	1.557219	Unclassified	chr9:14346410-14421444	73.035
Dvl3	0	0	0	295	4.916667	5.9662	13.20306	Unclassified	chr16:20515136-20532260	15.125
Lgi1	0	0	0	37	0.616667	0.046535	0.552195	Unclassified	chr19:38337271-38383429	44.159
Mmp16	0	0	0	88	1.466667	0.07282	0.754464	Unclassified	chr4:17778628-18045881	265.254
Dvl1	0	0	0	349	5.816667	18.0266	5.066667	Unclassified	chr4:155219520-155233412	11.893
D1Ert622e	0	0	0	757	12.61667	9.54371	11.69106	Unclassified	chr1:99540478-99560595	18.118
Mme	0	0	0	47	0.783333	0.021159	1.309609	Unclassified	chr3:63097793-63186153	86.361
Mmp12	0	0	0	9	0.15	0.053298	0	Unclassified	chr9:7345373-7360461	13.089
Ctsr	0	0	0	2	0.033333	0.019201	0.798995	Unclassified	chr13:61260575-61267549	4.975
Zfp353	0	0	0	1	0.016667	0.018813	0	Unclassified	chr8:43164626-43171733	5.108
V1rd20	0	0	0	0	0	0	0	Unclassified	chr7:24767130-24770045	0.916
Slitrk3	0	0	0	6	0.1	0.017171	1.323181	Unclassified	chr3:72852046-72862865	8.82
V1rd10	0	0	0	0	0	0	0	Unclassified	chr7:5405428-5408361	0.934
V1rd11	0	0	0	1	0.016667	0.005474	0	Unclassified	chr7:5835181-5838144	0.964
V1rd17	0	0	0	2	0.033333	0	2	Unclassified	chr7:24711404-24714376	0.973

1190002N15Rik	0	0	0	186	3.1	2.45908	34.10895	Stalled	chr9:94418282-94440500	20.219
Ap1s1	0	0	0	184	3.066667	36.454	6.707891	Unclassified	chr5:137510863-137523930	11.068
Sncb	0	0	0	25	0.416667	0.439058	3.187924	Unclassified	chr13:54860220-54869801	7.582
Cyb5r1	0	0	0	72	1.2	1.34108	0.50741	Unclassified	chr4:106740772-106757410	14.639
Zfp575	0	0	0	29	0.483333	0.477022	2.438247	Unclassified	chr7:25368856-25374660	3.805
Wtip	0	0	0	29	0.483333	0.252127	1.428398	Unclassified	chr7:34894566-34920287	23.722
Strbp	0	0	0	382	6.366667	2.76012	0.505607	Unclassified	chr2:37425389-37504805	77.417
Spock1	0	0	0	460	7.666667	0.088746	2.053866	Unclassified	chr13:57527451-58011693	482.243
Bambi	0	0	0	93	1.55	0.747466	15.90151	Stalled	chr18:3505954-3516402	8.449
Spop	0	0	0	1099	18.31667	23.1181	12.94192	Unclassified	chr11:95273396-95354724	79.329
Spnb3	0	0	0	172	2.866667	0.085598	0	Unclassified	chr19:4709222-4752352	41.131
Csgalnact2	0	0	0	243	4.05	1.36908	27.72404	Stalled	chr6:118057470-118091158	31.689
Esrgr	0	0	0	149	2.483333	0.082776	1.190143	Unclassified	chr1:189819737-190038763	217.027
Olfr1223	0	0	0	0	0	0.020878	0	Unclassified	chr2:88984242-88993493	7.252
Gm4951	0	0	0	19	0.316667	0.065311	0.684698	Unclassified	chr18:60369730-60404774	35.745
Perp	0	0	0	27	0.45	0.59871	5.261618	Unclassified	chr10:18562876-18576878	12.003
Oxct2a	0	0	0	2	0.033333	0.498178	2	Unclassified	chr4:122999118-123002877	1.76
Adamts19	0	0	0	97	1.616667	0	0	Unclassified	chr18:58994417-59213332	216.916
Sv2a	0	0	0	207	3.45	1.966	5.071001	Unclassified	chr3:95983149-95999103	13.955
Thsd4	0	0	0	612	10.2	0.038742	0	Unclassified	chr9:59814738-60360842	544.105
1700016K19Rik	0	0	0	37	0.616667	3.97949	3.056517	Unclassified	chr11:75811413-75817071	3.659
D130040H23Rik	0	0	0	264	4.4	1.83862	31.89571	Stalled	chr8:71792978-71827274	32.297
0610040J01Rik	0	0	0	99	1.65	0.082244	2.917449	Unclassified	chr5:64201733-64290858	87.126
Grit	0	0	0	123	2.05	0.093673	1.102344	Unclassified	chr9:31921720-32072082	148.363
Tnnc2	0	0	0	7	0.116667	0.037041	2.445998	Unclassified	chr2:164602661-164607234	2.574
Tnnc1	0	0	0	12	0.2	0.072924	0.375098	Unclassified	chr14:32019497-32024897	3.401
Tnc	0	0	0	95	1.583333	0.230619	0	Unclassified	chr4:63620818-63683760	60.943
Clec3b	0	0	0	21	0.35	0.310072	0.844828	Unclassified	chr9:123058063-123066550	6.488
Csnk1g1	0	0	0	857	14.28333	3.54844	31.86116	Stalled	chr9:65754816-65892821	136.006
Adcy8	0	0	0	136	2.266667	0.073759	1.258343	Unclassified	chr15:64530596-64755858	223.263
Tnfaip2	0	0	0	36	0.6	0.441571	2.072864	Unclassified	chr12:112678871-112693229	12.359
Sic22a5	0	0	0	292	4.866667	4.1186	25.27207	Stalled	chr11:53678047-53707205	27.159
Sic22a12	0	0	0	28	0.466667	0.176345	1.101503	Unclassified	chr19:6535855-6545070	7.216
Sic23a1	0	0	0	672	11.2	1.09769	1.030489	Elongating	chr18:35774257-35788872	12.616
Sic25a14	0	0	0	94	1.566667	3.39303	19.79992	Stalled	chrX:45974756-46015469	38.714
Sic25a17	0	0	0	424	7.066667	15.9279	18.65918	Unclassified	chr15:81149350-81193195	41.846
Sic2a2	0	0	0	27	0.45	0.049869	0.540939	Unclassified	chr3:28594824-28627282	30.459
Sic2a3	0	0	0	150	2.5	5.4597	4.415422	Unclassified	chr6:122677828-122694763	14.936
Sic11a1	0	0	0	56	0.933333	0.377951	0.477769	Unclassified	chr1:74419776-74432625	10.85
Olfr45	0	0	0	3	0.05	0.030202	3	Unclassified	chr7:147874805-147877741	0.937
Hbb-bh1	0	0	0	3	0.05	0.105052	0.689384	Unclassified	chr7:110990151-110993676	1.526
Spint4	0	0	0	6	0.1	0.05154	0.595878	Unclassified	chr2:164522000-164527948	3.949
Fam189a1	0	0	0	658	10.96667	0.115924	0.758347	Unclassified	chr7:1900981-72303414	400.434
Spin2	0	0	0	22	0.366667	1.13808	3.25985	Unclassified	chrX:150264835-150268783	1.949
Barhl1	0	0	0	141	2.35	0.177908	1.038566	Elongating	chr2:28763199-28773941	8.743
Cldn8	0	0	0	4	0.066667	0.021741	2	Unclassified	chr16:88561070-88565428	2.359
Btn1a1	0	0	0	23	0.383333	1.56477	0.952629	Unclassified	chr13:23548861-23559770	8.91
Dnmt3l	0	0	0	173	2.883333	0.10592	4.196656	Unclassified	chr10:77503031-77526360	21.33
Gsc2	0	0	0	6	0.1	0.936918	0	Unclassified	chr16:17913646-17917152	1.507
Aktip	0	0	0	155	2.583333	2.94951	0.274977	Unclassified	chr8:93647397-93661395	11.999
CommD3	0	0	0	180	3	33.9914	20.44826	Stalled	chr2:18592088-18597843	3.756
Ptch2	0	0	0	63	1.05	0.05778	0.926216	Unclassified	chr4:116766960-116787436	18.477
Rnf214	0	0	0	536	8.933333	5.63611	69.43504	Stalled	chr9:45671773-45716960	43.188
Serpinc1	0	0	0	118	1.966667	0.450824	1.542435	Unclassified	chr1:162906736-162933143	24.408
Spag11a	0	0	0	2	0.033333	0	0	Unclassified	chr8:19155886-19159578	1.693
Lefty2	0	0	0	12	0.2	0.220891	0.767809	Unclassified	chr1:182821249-182829233	5.985
Inpp4b	0	0	0	755	12.58333	0.525377	0.350808	Unclassified	chr8:84237098-84646460	407.363
Pgrmc2	0	0	0	472	7.866667	17.4833	38.22806	Unclassified	chr3:40870249-40888968	16.72
Fam19a5	0	0	0	143	2.383333	0.044313	0	Unclassified	chr15:87453659-87589794	134.136
Dbx2	0	0	0	31	0.516667	0.067722	1.074898	Unclassified	chr15:95453993-95487202	31.21
Tcl1	0	0	0	11	0.183333	0	1.663161	Unclassified	chr12:106454966-106462947	5.982
Gipr	0	0	0	62	1.033333	0.428919	0.369393	Unclassified	chr7:19742473-19753476	9.004
Hipk4	0	0	0	49	0.816667	0.084947	0.884365	Unclassified	chr7:28306279-28316193	7.915
Olfr1132	0	0	0	1	0.016667	0	1	Unclassified	chr2:87474975-87477902	0.928
Olfr1270	0	0	0	2	0.033333	0	0	Unclassified	chr2:89989246-89992161	0.916
Tmem144	0	0	0	131	2.183333	0.687787	16.2901	Stalled	chr3:79617074-79648584	29.511
Prx	0	0	0	192	3.2	0.595776	0.287562	Unclassified	chr7:28282342-28305060	20.719
Rfk	0	0	0	172	2.866667	6.36248	28.30341	Stalled	chr19:17466532-17475837	7.306
Gabbr1	0	0	0	453	7.55	9.74644	7.090237	Unclassified	chr17:37180910-37211250	28.341
Crif3	0	0	0	1135	18.91667	30.1178	15.24208	Unclassified	chr11:79860000-79896457	34.458
Irgm2	0	0	0	185	3.083333	4.97859	5.758922	Unclassified	chr11:58026478-58036282	7.805
Ppt2	0	0	0	52	0.866667	2.7271	2.505177	Unclassified	chr17:34753606-34766042	10.437
Sic25a26	0	0	0	508	8.466667	2.60779	9.970026	Unclassified	chr6:94448307-94554644	104.338
Thoc2	0	0	0	650	10.83333	5.05775	28.49702	Stalled	chrX:39148170-39267078	116.909
Lrrc18	0	0	0	877	14.61667	0	0.902357	Unclassified	chr14:33802567-33828478	23.912
Aph1a	0	0	0	113	1.883333	16.8273	6.536718	Unclassified	chr3:95695918-95702213	4.296
Krt36	0	0	0	10	0.166667	0.025044	0.340297	Unclassified	chr11:99963328-99969422	4.095
Krt34	0	0	0	4	0.066667	0	0	Unclassified	chr11:99898664-99904868	4.205
Il17rc	0	0	0	190	3.166667	2.16615	0.162976	Unclassified	chr6:113419448-113433132	11.685
Gm561	0	0	0	83	1.383333	13.3732	16.93241	Unclassified	chr2:144417800-144421101	1.302
Cxx1b	0	0	0	24	0.4	10.6558	21	Unclassified	chrX:50972353-50975585	1.233
Ubxn2b	0	0	0	281	4.683333	1.87553	22.6489	Stalled	chr4:6116251-6146935	28.685
Manea	0	0	0	452	7.533333	5.53574	20.30373	Unclassified	chr4:26251652-26275799	22.148
Nipa1	0	0	0	68	1.133333	1.01645	1.982916	Unclassified	chr7:63233853-63276943	41.091
Snord22	0	0	0	248	4.133333	9.96543	115	Unclassified	chr19:8798355-8800481	0.127
Adam32	0	0	0	182	3.033333	0.062851	18.86642	Stalled	chr8:25946614-26061276	112.663

Mul1	0	0	0	378	6.3	6.06589	5.394879	Unclassified	chr4:137988586-137998180	7.595
Ptcd1	0	0	0	638	10.63333	6.00936	14.46593	Unclassified	chr5:145908246-145929973	19.728
A530016L24Rik	0	0	0	17	0.283333	0	0	Unclassified	chr12:113725658-113738138	10.481
Ppm1f	0	0	0	283	4.716667	7.97559	1.069689	Unclassified	chr16:16901413-16927455	24.043
Taf2	0	0	0	647	10.78333	8.57192	25.41084	Unclassified	chr15:54846683-54905707	57.025
Pmvk	0	0	0	242	4.033333	63.5336	10.71405	Unclassified	chr3:89261039-89272930	9.892
Olfr1282	0	0	0	0	0	0.019704	0	Unclassified	chr2:111175315-111178233	0.919
4930433I11Rik	0	0	0	5	0.083333	0.024782	0.608802	Unclassified	chr7:48240978-48250202	7.225
Narg1	0	0	0	1210	20.16667	12.8407	20.55401	Unclassified	chr3:51217937-51279906	59.97
Hdhd1a	0	0	0	3	0.05	0	1	Unclassified	chr18:50727309-50730353	1.045
Stk36	0	0	0	181	3.016667	0.269353	52.2198	Stalled	chr1:74646028-74683467	35.44
Olfr1221	0	0	0	1	0.016667	0.027385	1	Unclassified	chr2:88951731-88954667	0.937
Kcnj11	0	0	0	6	0.1	0.166662	0.509443	Unclassified	chr7:53352531-53357607	3.077
Zfp523	0	0	0	353	5.883333	3.8068	14.66657	Unclassified	chr17:28312362-28342829	28.468
Cyp2j12	0	0	0	26	0.433333	0.033973	0.63723	Unclassified	chr4:95766333-95809733	41.401
Ccdc40	0	0	0	300	5	1.02169	3.031952	Unclassified	chr11:119087885-119126526	36.642
Rxcc4	0	0	0	645	10.75	2.24679	90.89546	Stalled	chr13:89988525-90231213	240.689
Xrxfp4	0	0	0	17	0.283333	0.061765	0.521432	Unclassified	chr3:88455819-88459064	1.246
Gabbr1	0	0	0	47	0.783333	0.139487	0	Unclassified	chr4:33217530-33250563	31.034
Gm13280	0	0	0	0	0	0	0	Unclassified	chr4:88322190-88324760	0.571
Gabre	0	0	0	4	0.066667	0.013776	0.844487	Unclassified	chrX:69502770-69522060	17.291
Gabrg1	0	0	0	28	0.466667	0.016118	0.776962	Unclassified	chr5:71142285-71235856	91.572
Gabrg2	0	0	0	38	0.633333	0.038892	0.713113	Unclassified	chr11:41723696-41816180	90.485
Gabrg3	0	0	0	348	5.8	0.022982	1.975743	Unclassified	chr7:63979611-64644241	662.631
Rps4y2	0	0	0	7	0.116667	5.15216	7	Unclassified	chr6:148301177-148304118	0.942
Pmch	0	0	0	1	0.016667	0.039643	1	Unclassified	chr10:87551816-87555119	1.304
Gabrb3	0	0	0	130	2.166667	0.009323	1.299147	Unclassified	chr7:64843903-65084171	238.269
Gabrd	0	0	0	33	0.55	0.095492	1.630001	Unclassified	chr4:154759087-154774178	13.092
Pbp2	0	0	0	4	0.066667	0.040816	2	Unclassified	chr6:135259146-135262402	1.257
Sic35d3	0	0	0	26	0.433333	1.34062	1.983368	Unclassified	chr10:19567722-19573265	3.544
2610008E11Rik	0	0	0	177	2.95	1.04396	11.70867	Stalled	chr10:78527118-78562302	33.185
Abcc3	0	0	0	124	2.066667	0.069181	1.762993	Unclassified	chr11:94204608-94256290	49.683
Fam123a	0	0	0	7	0.116667	0.288457	0	Unclassified	chr14:60995122-60999839	2.718
Dennd2d	0	0	0	291	4.85	3.80991	7.692498	Unclassified	chr3:106283348-106303972	18.625
Tbc1d2b	0	0	0	124	2.066667	1.01079	3.726681	Unclassified	chr9:90096886-90167607	68.722
Sei12	0	0	0	80	1.333333	0.034654	0.670683	Unclassified	chr2:140055593-140217446	159.854
Cpeb1	0	0	0	85	1.416667	0.073601	2.319098	Unclassified	chr7:88492328-88601562	107.235
Epha3	0	0	0	157	2.616667	0.03544	1.344527	Unclassified	chr16:63545043-63865983	318.941
Stom	0	0	0	125	2.083333	2.1248	20.52727	Stalled	chr2:35169509-35194529	23.021
Epc1	0	0	0	2332	38.86667	11.9791	15.87413	Unclassified	chr18:6435948-6518085	80.138
Myh10	0	0	0	397	6.616667	0.420831	1.937863	Unclassified	chr11:68503416-68630126	124.711
Bcl9	0	0	0	264	4.4	5.3083	0.566081	Unclassified	chr3:97008550-97022430	11.881
Gm5736	0	0	0	1	0.016667	0.091709	0	Unclassified	chr7:110987637-110991035	1.399
Fam115a	0	0	0	20	0.333333	0.044573	0.549473	Unclassified	chr6:42622545-42645058	20.514
Vps33a	0	0	0	418	6.966667	8.56678	21.46721	Unclassified	chr5:123978770-124025024	44.255
Epha5	0	0	0	135	2.25	0.054313	0	Unclassified	chr5:84483787-84848407	362.621
Zdhhc6	0	0	0	744	12.4	12.3943	22.98772	Unclassified	chr19:55372788-55392522	17.735
Olfr212	0	0	0	5	0.083333	0.287122	0	Unclassified	chr6:116454533-116467983	11.451
Kcnj15	0	0	0	78	1.3	0.173367	0.353791	Unclassified	chr16:95477257-95521865	42.609
Pion	0	0	0	286	4.766667	1.74164	21.7686	Stalled	chr5:20690084-20797519	105.436
Defb21	0	0	0	8	0.133333	0	0.230917	Unclassified	chr2:152396479-152400679	2.201
Atpaf1	0	0	0	379	6.316667	4.88253	25.98894	Unclassified	chr4:115455589-115484896	27.308
4732418C07Rik	0	0	0	573	9.55	6.13111	15.68264	Unclassified	chr4:115408677-115449932	39.256
Ctct811	0	0	0	3	0.05	0.019607	0.324781	Unclassified	chr5:25019884-25023845	1.962
Tomm70a	0	0	0	763	12.71667	14.979	19.57226	Unclassified	chr16:57119826-57154643	32.818
Actr3b	0	0	0	276	4.6	2.23197	21.15521	Stalled	chr5:25263843-25356159	90.317
Plekhg1	0	0	0	212	3.533333	0.060123	2.101995	Unclassified	chr10:6379240-6608164	226.925
Mppe1	0	0	0	449	7.483333	7.09741	19.09466	Unclassified	chr18:67385183-67407484	20.302
Ripk4	0	0	0	31	0.516667	0.122748	1.741295	Unclassified	chr16:97963548-97987362	21.815
Slmo1	0	0	0	52	0.866667	0.472981	4.940537	Unclassified	chr18:67622502-67640235	15.734
Vsx1	0	0	0	17	0.283333	0.097039	2.890185	Unclassified	chr2:150506439-150516873	8.435
Sic35e4	0	0	0	90	1.5	3.12075	4.110256	Unclassified	chr11:3807024-3816667	7.644
6330403K07Rik	0	0	0	23	0.383333	0.473193	0.571455	Unclassified	chr11:70845442-70849119	1.678
Chrm5	0	0	0	4	0.066667	0.080744	0.42759	Unclassified	chr2:112319228-112322974	1.747
Ccdc106	0	0	0	95	1.583333	1.3043	0.291221	Unclassified	chr7:5006327-5012386	4.06
Atmin	0	0	0	278	4.633333	5.90262	5.857793	Unclassified	chr8:119465292-119484344	17.053
Smad1	0	0	0	371	6.183333	2.14248	11.94038	Stalled	chr8:81862297-81925367	61.071
Mia2	0	0	0	9	0.15	0	1.345407	Unclassified	chr12:60194786-60210117	13.332
Amhr2	0	0	0	25	0.416667	0.092156	0.877909	Unclassified	chr15:102273797-102285070	9.274
Spata18	0	0	0	33	0.55	0.782927	2.041616	Unclassified	chr5:74040618-74070722	28.105
Iws1	0	0	0	996	16.6	5.15765	20.88749	Unclassified	chr18:32225387-32263985	36.599
Kif2b	0	0	0	2	0.033333	0.011292	0	Unclassified	chr11:91436599-91440869	2.271
Clca3	0	0	0	30	0.5	0.048034	1.534964	Unclassified	chr3:144667500-144697740	28.241
Trim59	0	0	0	580	9.666667	5.86602	12.42144	Unclassified	chr3:68839215-68850664	9.45
9230105E10Rik	0	0	0	184	3.066667	6.62801	14.45251	Stalled	chr7:111487268-111503872	14.605
Ttc15	0	0	0	1085	18.08333	10.3134	11.25211	Unclassified	chr12:29375492-29437318	59.827
Foxj3	0	0	0	926	15.43333	4.28476	32.42644	Unclassified	chr4:119210292-119301724	89.433
Crisp3	0	0	0	6	0.1	0.147823	0	Unclassified	chr17:40358725-40381207	20.483
Crisp1	0	0	0	13	0.216667	0.022596	0.689713	Unclassified	chr17:40430706-40458156	25.451
Npsr1	0	0	0	105	1.75	0.027046	0.676398	Unclassified	chr9:23900461-24120842	218.382
Me3	0	0	0	185	3.083333	0.167169	1.643623	Unclassified	chr7:96779327-97002869	221.543
Arpc1b	0	0	0	1628	27.13333	209.833	3.83439	Unclassified	chr5:145873124-145889055	13.932
Raly	0	0	0	1500	25	103.569	29.09338	Unclassified	chr2:154614845-154692995	76.151
Ran	0	0	0	807	13.45	99.7971	11.66706	Unclassified	chr5:129524030-129530196	4.167
Gm6592	0	0	0	2	0.033333	0.050558	0	Unclassified	chrX:8419119-8426733	5.615
Upk3a	0	0	0	9	0.15	0.023176	1.574991	Unclassified	chr15:84845570-84852990	5.421

Upp1	0	0	0	15	0.25	0.465678	0.58852	Unclassified	chr11:9016010-9036172	18.163
Car7	0	0	0	26	0.433333	0.233327	0.89754	Unclassified	chr8:107062706-107074243	9.538
Urod	0	0	0	92	1.533333	14.9607	8.777778	Unclassified	chr4:116662821-116668980	4.16
Lsm14b	0	0	0	358	5.966667	12.2145	8.928982	Unclassified	chr2:179757691-179770166	10.476
Pot1a	0	0	0	400	6.666667	2.0749	45.13439	Stalled	chr6:25693734-25761226	65.493
Lrrc30	0	0	0	1	0.016667	0.029145	0	Unclassified	chr17:67980304-67984063	1.76
Slc36a1	0	0	0	227	3.783333	2.17338	7.787248	Unclassified	chr11:55015841-55049832	31.992
Hnrnpa3	0	0	0	1014	16.9	0	13.41361	Unclassified	chr2:75495315-75507464	10.15
Phc3	0	0	0	918	15.3	3.39443	13.26714	Unclassified	chr3:30798217-30870337	70.121
Cplx3	0	0	0	22	0.366667	0.040373	1.042733	Unclassified	chr9:57447800-57456088	6.289
Ireb2	0	0	0	808	13.46667	6.48012	17.30349	Unclassified	chr9:54709561-54760341	48.781
Dnm1l	0	0	0	481	8.016667	11.2404	27.61042	Unclassified	chr16:16312325-16361123	46.799
Btbd11	0	0	0	329	5.483333	0.4318	1.830322	Unclassified	chr10:84847558-85123037	273.48
Psd2	0	0	0	85	1.416667	0.153072	1.517109	Unclassified	chr18:36122488-36174369	49.882
Slc35d1	0	0	0	662	11.03333	3.1273	30.21634	Unclassified	chr4:102844322-102889489	43.168
Wdr78	0	0	0	432	7.2	1.18961	87.0066	Stalled	chr4:102710670-102788904	76.235
Ptdss2	0	0	0	187	3.116667	6.98512	7.061686	Unclassified	chr7:148315184-148342053	24.87
Akr1c13	0	0	0	9	0.15	0.249545	0.626482	Unclassified	chr13:4188432-4204849	14.418
Sh2d3c	0	0	0	455	7.583333	8.38341	4.967556	Unclassified	chr2:32574591-32610514	33.924
Npas3	0	0	0	540	9	0.172221	1.815006	Unclassified	chr12:54347663-55173162	823.5
Tcl1b2	0	0	0	4	0.066667	0.048556	0	Unclassified	chr12:106383242-106393435	8.194
Tcl1b4	0	0	0	3	0.05	0	0.641127	Unclassified	chr12:106438631-106445203	4.573
Tcl1b5	0	0	0	8	0.133333	0.072763	0.972911	Unclassified	chr12:106412567-106419355	4.789
Pcsk7	0	0	0	647	10.78333	10.0772	24.01992	Unclassified	chr9:45712651-45737805	23.155
Cmtm2a	0	0	0	10	0.166667	0.188722	2.599848	Unclassified	chr8:106804941-106819081	12.141
Prrs52	0	0	0	29	0.483333	0	0.489689	Unclassified	chr14:64721159-64732588	9.43
1700058C13Rik	0	0	0	15	0.25	0.035113	0.333651	Unclassified	chr2:153954082-153964091	8.01
Hbp1	0	0	0	357	5.95	5.68925	5.264214	Unclassified	chr12:32611319-32637400	24.082
Gprin2	0	0	0	21	0.35	0.49641	3.260975	Unclassified	chr14:35007627-35016819	7.193
AU042651	0	0	0	37	0.616667	0.248113	0	Unclassified	chr13:56537715-56573724	34.01
Onecut1	0	0	0	45	0.75	0.674718	1.201654	Unclassified	chr9:74707727-74737454	27.728
Retn	0	0	0	12	0.2	0.125987	0.739261	Unclassified	chr8:3653788-3658095	2.308
Apba3	0	0	0	82	1.366667	14.7659	3.501068	Unclassified	chr10:80728916-80735991	5.076
Cxcl14	0	0	0	15	0.25	0.077249	2.171235	Unclassified	chr13:56390005-56399912	7.908
Gm806	0	0	0	15	0.25	0.02515	0.439252	Unclassified	chr13:50560675-50570724	8.05
Ltb4r2	0	0	0	17	0.283333	3.31256	8	Unclassified	chr14:56378760-56381843	1.084
Retnlb	0	0	0	2	0.033333	0	0.509082	Unclassified	chr16:48814968-48819004	2.037
Retnla	0	0	0	7	0.116667	0	0.154119	Unclassified	chr16:48840664-48844574	1.911
Slc30a6	0	0	0	482	8.033333	3.10766	27.64425	Unclassified	chr17:74792971-74823569	28.599
Extl3	0	0	0	546	9.1	7.2187	9.96787	Unclassified	chr14:65670896-65718943	46.048
Olfr646	0	0	0	3	0.05	0.027298	2	Unclassified	chr7:111252794-111255733	0.94
Rdh14	0	0	0	250	4.166667	9.28889	22.84916	Stalled	chr12:10395585-10402368	4.784
Azi1	0	0	0	149	2.483333	2.54619	10.36707	Stalled	chr11:119925743-119950141	22.399
Axin2	0	0	0	62	1.033333	0.180596	1.722616	Unclassified	chr11:108779662-108812095	30.434
Olfr652	0	0	0	2	0.033333	0.080353	1	Unclassified	chr7:111710665-111713726	1.062
Olfr362	0	0	0	2	0.033333	0.026869	1	Unclassified	chr2:36960214-36963168	0.955
Olfr582	0	0	0	2	0.033333	0.032192	2	Unclassified	chr7:110187994-110190954	0.961
Olfr589	0	0	0	1	0.016667	0	1	Unclassified	chr7:110303305-110306259	0.955
Gm6377	0	0	0	1	0.016667	0.690919	1	Unclassified	chrX:106390094-106395784	3.691
Olfr584	0	0	0	1	0.016667	0	1	Unclassified	chr7:110232033-110234993	0.961
1810029B16Rik	0	0	0	315	5.25	7.59357	7.0974	Unclassified	chr8:69000244-69012406	10.163
Esrrb	0	0	0	193	3.216667	0.109317	0.910166	Unclassified	chr12:87700066-87862577	160.512
Spink2	0	0	0	14	0.233333	0.104709	2.165303	Unclassified	chr5:77634132-77642478	6.347
Cln3	0	0	0	165	2.75	4.07231	8.829036	Unclassified	chr7:133714913-133728750	11.838
Thap3	0	0	0	178	2.966667	12.4838	2.738175	Elongating	chr4:151356747-151365095	6.349
Ifi202b	0	0	0	11	0.183333	0.017862	0	Unclassified	chr1:175892699-175914975	20.277
Ltf	0	0	0	35	0.583333	0.037393	0	Unclassified	chr9:110919795-110945270	23.476
Ddx1	0	0	0	581	9.683333	26.2093	13.94126	Unclassified	chr12:13226112-13257980	29.869
Magee1	0	0	0	71	1.183333	3.40406	5.980882	Unclassified	chrX:102313734-102319250	3.517
Aqp9	0	0	0	45	0.75	0.222977	0.539893	Unclassified	chr9:70958467-71013096	52.63
1110002B05Rik	0	0	0	361	6.016667	14.3664	21.95833	Unclassified	chr12:55746360-55759559	11.2
Il1r12	0	0	0	66	1.1	0.427211	3.781013	Unclassified	chr1:40379471-40422316	40.846
Tmem184c	0	0	0	237	3.95	8.81414	24.64386	Stalled	chr8:80119878-80136552	14.675
4930526D03Rik	0	0	0	13	0.216667	0.0537	0.698	Unclassified	chr2:181431499-181435147	1.649
Kras	0	0	0	544	9.066667	4.72986	15.76292	Unclassified	chr6:145165220-145200751	33.532
Cdh19	0	0	0	22	0.366667	0	0	Unclassified	chr1:112785771-112875949	88.179
Spag11b	0	0	0	2	0.033333	0	0.556147	Unclassified	chr8:19138758-19143010	2.253
Ltk	0	0	0	67	1.116667	1.8631	0.342034	Unclassified	chr2:119577061-119588167	9.107
Olfr937	0	0	0	0	0	0.027385	0	Unclassified	chr9:38867313-38870249	0.937
1700037H04Rik	0	0	0	313	5.216667	15.6337	52.81522	Stalled	chr2:130972060-130987756	13.697
1700023A16Rik	0	0	0	22	0.366667	0	1.007346	Unclassified	chr6:146796631-146819926	21.296
Ptov1	0	0	0	182	3.033333	7.74626	2.685274	Elongating	chr7:52118437-52127158	6.722
Gpr87	0	0	0	2	0.033333	0	2	Unclassified	chr3:58982844-58986007	1.164
Folr4	0	0	0	55	0.916667	1.23272	4.883005	Unclassified	chr9:14690257-14710395	18.139
1810033B17Rik	0	0	0	29	0.483333	0.724283	1.236311	Unclassified	chr8:3663761-3668905	3.145
Olfr1272	0	0	0	0	0	0.014218	0	Unclassified	chr2:90121803-90124730	0.928
Pes1	0	0	0	752	12.53333	32.0788	4.733702	Unclassified	chr11:3861977-3880007	16.031
1700042G07Rik	0	0	0	3	0.05	0.065389	3	Unclassified	chr4:115843976-115846902	0.927
Erp27	0	0	0	284	4.733333	0.59173	7.830544	Unclassified	chr6:136855907-136872701	14.795
Dyrk2	0	0	0	482	8.033333	7.74124	6.544439	Unclassified	chr10:118296404-118307959	9.556
Hrct1	0	0	0	8	0.133333	0.042113	4	Unclassified	chr4:43738069-43740982	0.914
C1qtnf2	0	0	0	26	0.433333	0	1.271482	Unclassified	chr11:43285845-43305027	17.183
Zfp9	0	0	0	50	0.833333	0.325225	8.690865	Unclassified	chr6:118411967-118431291	17.325
Islr	0	0	0	11	0.183333	0.029903	0.422535	Unclassified	chr9:58004075-58008949	2.875
Rfxank	0	0	0	771	12.85	10.7282	0.997781	Unclassified	chr8:72654704-72665096	8.393
Iqcf4	0	0	0	3	0.05	0.035258	1	Unclassified	chr9:106470649-106475298	2.65

Tnfsf13b	0	0	0	41	0.683333	0.203793	4.944917	Unclassified	chr8:10004632-10035999	29.368
Kcna2	0	0	0	11	0.183333	0.100128	2.091332	Unclassified	chr3:106902484-106909797	5.314
BC026585	0	0	0	116	1.933333	3.08145	15.96087	Stalled	chr1:159386712-159418864	30.153
Spire1	0	0	0	106	1.766667	0.804398	0.376906	Unclassified	chr18:67647862-67714375	64.514
Zcchc13	0	0	0	1	0.016667	0.035634	0	Unclassified	chrX:100823924-100827003	1.08
Tpp1	0	0	0	68	1.133333	6.42192	2.065506	Unclassified	chr7:112893360-112902721	7.362
A930038C07Rik	0	0	0	69	1.15	0.3912	10.93591	Stalled	chr6:65619604-65656924	35.321
Fam171b	0	0	0	53	0.883333	0.547545	2.949962	Unclassified	chr2:83650884-83721515	68.632
Lemd3	0	0	0	765	12.75	7.31755	24.23665	Unclassified	chr10:120360466-120418386	55.921
Xirp1	0	0	0	18	0.3	0.030015	0.825036	Unclassified	chr9:119923382-119930933	5.552
Accs3	0	0	0	87	1.45	0.102338	0	Unclassified	chr10:106373220-106562720	187.501
Ces5	0	0	0	5	0.083333	0.050085	0	Unclassified	chr8:107448159-107458572	8.414
Tmprss12	0	0	0	5	0.083333	0.038002	0	Unclassified	chr15:100109267-100123484	12.218
Lin28b	0	0	0	46	0.766667	0.042742	0.672894	Unclassified	chr10:45096438-45192007	93.57
Cpne9	0	0	0	166	2.766667	0.096849	9.396198	Unclassified	chr6:113230300-113255565	23.266
Slc44a4	0	0	0	108	1.8	0.068323	14.32883	Stalled	chr17:35049424-35067301	15.878
Dpf3	0	0	0	210	3.5	0.039496	9.142819	Unclassified	chr12:84370184-84830658	458.475
Fut10	0	0	0	76	1.266667	0.471096	1.522403	Unclassified	chr8:32295803-32371955	74.153
Glp1r	0	0	0	56	0.933333	0.129895	1.206707	Unclassified	chr17:31036811-31073455	34.645
Gira1	0	0	0	103	1.716667	0.027327	1.444855	Unclassified	chr11:55328314-55423292	92.979
Gira4	0	0	0	30	0.5	0.02725	1.789539	Unclassified	chrX:133292212-133316260	22.049
Glrp1	0	0	0	21	0.35	0.193763	3.471057	Unclassified	chr1:90396445-90408641	10.197
Glrb	0	0	0	43	0.716667	0.030025	0.627347	Unclassified	chr3:80647525-80719546	70.022
Csl	0	0	0	2	0.033333	12.6975	0.488491	Unclassified	chr10:99220338-99224292	1.955
Dcaf7	0	0	0	593	9.883333	22.2967	9.314446	Unclassified	chr11:105896185-105920637	22.453
Ggt6	0	0	0	10	0.166667	0.070342	1.093023	Unclassified	chr11:72247027-72251906	2.88
1700003E16Rik	0	0	0	31	0.516667	1.9254	5.074148	Unclassified	chr6:83104397-83112969	6.573
Bcl11b	0	0	0	125	2.083333	0.075165	0	Unclassified	chr12:109148612-109243624	93.013
Arglu1	0	0	0	877	14.61667	56.3376	9.153949	Unclassified	chr8:8666575-8692537	23.963
Ercc6l	0	0	0	202	3.366667	3.26294	19.60514	Stalled	chrX:99338158-99354430	14.273
Ppp1r1a	0	0	0	62	1.033333	0.079174	0.774191	Unclassified	chr15:103360709-103370423	7.715
Slc43a3	0	0	0	1342	22.36667	22.3542	4.292572	Unclassified	chr2:84774812-84798666	21.855
Pdcd1lg2	0	0	0	708	11.8	2.52241	0.240822	Unclassified	chr19:29483408-29547416	62.009
Pdgrfa	0	0	0	66	1.1	0.079926	0	Unclassified	chr5:75546315-75594229	45.915
2610524H06Rik	0	0	0	112	1.866667	5.813	9.247786	Unclassified	chr5:115271945-115275477	1.533
Wdr47	0	0	0	162	2.7	1.74472	31.37804	Stalled	chr3:108392195-108448637	54.443
Akr1c19	0	0	0	5	0.083333	0.030982	0.772998	Unclassified	chr13:4230985-4247605	14.621
Pnpla1	0	0	0	83	1.383333	0.062816	0	Unclassified	chr17:28993355-29027253	31.899
Rabep1	0	0	0	880	14.66667	3.39759	24.32466	Unclassified	chr11:70656264-70756606	98.343
Olfr358	0	0	0	1	0.016667	0	1	Unclassified	chr2:36860139-36863132	0.994
Pim2	0	0	0	364	6.066667	15.99	14.00164	Unclassified	chrX:7453431-7460558	5.128
Pip	0	0	0	1	0.016667	0	0	Unclassified	chr6:41795547-41802061	4.515
Pik3r3	0	0	0	332	5.533333	1.09876	72.67135	Stalled	chr4:115892518-115975661	81.144
Pikfyve	0	0	0	611	10.18333	2.04989	38.38923	Stalled	chr1:65231258-65325270	92.013
Cul2	0	0	0	519	8.65	4.6579	17.76829	Unclassified	chr18:3381222-3436698	53.477
Pggt1b	0	0	0	710	11.83333	7.2974	20.40251	Unclassified	chr18:46399602-46442504	40.903
Scn1a	0	0	0	75	1.25	0.01755	1.396836	Unclassified	chr2:66108838-66280894	170.057
Scn10a	0	0	0	118	1.966667	0.028898	0	Unclassified	chr9:119517583-119605478	85.896
Prol1	0	0	0	5	0.083333	0.200397	1.555786	Unclassified	chr5:88744336-88757842	11.507
Muc5ac	0	0	0	40	0.666667	0.015775	0.4339	Unclassified	chr7:148972915-149005040	30.126
Opn4	0	0	0	19	0.316667	0.073597	0.334012	Unclassified	chr14:35403803-35415328	9.526
Mug1	0	0	0	19	0.316667	0.012455	0	Unclassified	chr6:121786558-121839074	50.517
Cpamd8	0	0	0	19	0.316667	0.008288	0	Unclassified	chr6:121954815-122035985	79.171
Rpl14	0	0	0	706	11.76667	366.355	5.926659	Unclassified	chr9:120478633-120483770	3.138
Dynl1c3	0	0	0	93	1.55	7.42245	12.18766	Stalled	chrX:9231395-9242109	8.715
Cd84	0	0	0	319	5.316667	3.49204	4.60037	Unclassified	chr1:173768709-173820849	50.141
Fgf22	0	0	0	90	1.5	0.131046	0.484084	Unclassified	chr10:79215863-79219706	1.844
Ccdc159	0	0	0	57	0.95	0.995212	14.15071	Stalled	chr9:21729914-21740316	8.403
Fam135a	0	0	0	100	1.666667	0.293307	16.25573	Stalled	chr1:24017596-24109180	89.585
Dppa1	0	0	0	24	0.4	0.016983	0	Unclassified	chr11:46420511-46444776	22.266
Lrrc20	0	0	0	450	7.5	2.16191	42.49912	Stalled	chr10:60936580-61044976	106.397
Parp12	0	0	0	111	1.85	1.65469	6.080615	Unclassified	chr6:39036410-39070348	31.939
Grik4	0	0	0	518	8.633333	0.088797	2.725879	Unclassified	chr9:42328518-42754454	423.937
Tpk1	0	0	0	619	10.31667	0.980206	77.78066	Stalled	chr6:43295005-43618174	321.17
Grxcr1	0	0	0	57	0.95	0.047956	0.715914	Unclassified	chr5:68421073-68557635	134.563
1110057K04Rik	0	0	0	686	11.43333	5.07723	34.48733	Unclassified	chr12:8212912-8292564	77.653
Pdcl3	0	0	0	149	2.483333	15.9802	18.58347	Stalled	chr1:39042658-39054081	9.424
Armc8	0	0	0	822	13.7	5.22136	24.94587	Unclassified	chr9:99378810-99471318	90.509
Cox4i1	0	0	0	815	13.58333	378.71	6.079423	Unclassified	chr8:123190189-123198109	5.921
AF529169	0	0	0	34	0.566667	0.075479	0.49964	Unclassified	chr9:89484871-89519824	32.954
Zfp560	0	0	0	198	3.3	0.72857	33.66742	Stalled	chr9:20149579-20191602	40.024
Ankrd46	0	0	0	244	4.066667	6.25482	13.45992	Unclassified	chr15:36407422-36428546	19.125
Ngly1	0	0	0	577	9.616667	4.79256	46.48259	Stalled	chr14:17079827-17144440	62.614
Gm1574	0	0	0	13	0.216667	0.09403	0	Unclassified	chr13:46367089-46395484	26.396
Maea	0	0	0	906	15.1	36.9733	25.6089	Unclassified	chr5:33676220-33715943	37.724
Wdr8	0	0	0	232	3.866667	8.89058	4.695114	Unclassified	chr4:153514480-153530927	14.448
Gm904	0	0	0	0	0	0	0	Unclassified	chr13:50736596-50741207	2.612
Vwc2l	0	0	0	85	1.416667	0.022026	0.653871	Unclassified	chr1:70770288-70931971	159.684
Fam20c	0	0	0	224	3.733333	0.700274	21.24146	Stalled	chr5:139229034-139286017	54.984
Sh3rf1	0	0	0	560	9.333333	0.757397	16.36547	Stalled	chr8:63700967-63874869	171.903
Cep290	0	0	0	163	2.716667	0.261807	0.910276	Unclassified	chr10:99948922-100036289	85.368
Gai3st2	0	0	0	5	0.083333	0.021824	2.802006	Unclassified	chr1:95755920-95773071	15.152
Hook1	0	0	0	197	3.283333	5.16688	52.88269	Stalled	chr4:95632069-95690965	56.897
4930458L03Rik	0	0	0	4	0.066667	0.012164	0.705493	Unclassified	chr13:65016713-65024503	5.791
Olfr531	0	0	0	3	0.05	0.070035	3	Unclassified	chr7:147586028-147588943	0.916
Olfr522	0	0	0	3	0.05	0.027298	3	Unclassified	chr7:147347908-147350847	0.94

Olfr341	0	0	0	0	0	0.008395	0	Unclassified	chr2:36334706-36337648	0.943
Olfr342	0	0	0	2	0.033333	0.057403	1	Unclassified	chr2:36380933-36383872	0.94
Lonrf2	0	0	0	30	0.5	0.116122	0	Unclassified	chr1:38851353-38880060	26.708
Olfr170	0	0	0	0	0	0.062817	0	Unclassified	chr16:19605817-19608759	0.943
Olfr525	0	0	0	7	0.116667	0.020622	2	Unclassified	chr7:147506599-147509529	0.931
Abat	0	0	0	139	2.316667	0.06163	5.514571	Unclassified	chr16:8511521-8621658	108.138
Plekhg6	0	0	0	40	0.666667	0.021226	0.301763	Unclassified	chr6:125312668-125332522	17.855
Il17d	0	0	0	40	0.666667	1.18514	0.732546	Unclassified	chr14:58141665-58162003	18.339
6530401D17Rik	0	0	0	30	0.5	1.75372	0.597771	Unclassified	chrX:132526358-132569483	41.126
Ccdc65	0	0	0	43	0.716667	1.01739	1.104172	Unclassified	chr15:98536657-98553764	15.108
Bdh2	0	0	0	39	0.65	0.074876	1.731495	Unclassified	chr3:134942255-134967389	23.135
Mmp13	0	0	0	13	0.216667	0.024255	1.48393	Unclassified	chr9:7270544-7283331	10.788
Fam118b	0	0	0	814	13.56667	7.17906	36.53785	Unclassified	chr9:35024549-35077352	50.804
Col2a1	0	0	0	62	1.033333	0.069912	2.132653	Unclassified	chr15:97806032-97837155	29.124
Col3a1	0	0	0	13	0.216667	0.020735	0.755944	Unclassified	chr1:45366382-45406550	38.169
Col4a1	0	0	0	189	3.15	0.081374	1.159541	Unclassified	chr8:11198422-11314826	114.405
Col17a1	0	0	0	153	2.55	0.04237	0	Unclassified	chr19:47720830-47768532	45.703
Col18a1	0	0	0	283	4.716667	0.081976	0.868932	Unclassified	chr10:76514923-76631275	114.353
Cd151	0	0	0	246	4.1	6.23203	0.519858	Unclassified	chr7:148651260-148657380	4.121
Olfr1290	0	0	0	0	0	0.020457	0	Unclassified	chr2:111329374-111332313	0.94
Olfr773	0	0	0	0	0	0.102833	0	Unclassified	chr10:128623541-128626475	0.935
Rnf19a	0	0	0	501	8.35	4.34567	44.68967	Stalled	chr15:36169688-36214902	43.215
Olfr772	0	0	0	0	0	0.031869	0	Unclassified	chr10:128611107-128614110	1.004
Olfr769	0	0	0	1	0.016667	0	0	Unclassified	chr10:128548540-128551479	0.94
Lrrtm2	0	0	0	22	0.366667	0	1.002548	Unclassified	chr18:35368662-35376678	6.017
Fam186b	0	0	0	29	0.483333	0.040214	0	Unclassified	chr15:99101448-99119611	16.164
Olfr137	0	0	0	1	0.016667	0	0	Unclassified	chr17:38441465-38444404	0.94
Olfr130	0	0	0	1	0.016667	0	1	Unclassified	chr17:38202117-38205071	0.955
Dzip1	0	0	0	111	1.85	0.62405	1.579726	Unclassified	chr14:119274741-119324389	47.649
Olfr266	0	0	0	1	0.016667	0	0	Unclassified	chr3:106624524-106627475	0.952
Olfr724	0	0	0	0	0	0.013748	0	Unclassified	chr14:50579765-50582771	1.007
Olfr1410	0	0	0	3	0.05	0.03305	1	Unclassified	chr1:94502415-94505384	0.97
Olfr722	0	0	0	5	0.083333	0	1.539436	Unclassified	chr14:50513932-50523616	7.685
Olfr730	0	0	0	0	0	0	0	Unclassified	chr14:50805936-50808893	0.958
Olfr486	0	0	0	0	0	0.027092	0	Unclassified	chr7:115315311-115318256	0.946
Gpr107	0	0	0	1035	17.25	8.71488	6.798274	Unclassified	chr2:31005835-31072087	64.253
Lcmt1	0	0	0	281	4.683333	14.6393	16.14645	Stalled	chr7:130519495-130573872	52.378
Nmnat2	0	0	0	191	3.183333	0.104843	0	Unclassified	chr1:154800230-154966391	164.162
Rtn4r	0	0	0	60	1	0.054712	1.269223	Unclassified	chr16:18125798-18152501	24.704
Plin1	0	0	0	29	0.483333	0.275428	0.564364	Unclassified	chr7:86866049-86879662	11.614
Dnm3	0	0	0	568	9.466667	0.489966	1.396933	Unclassified	chr1:163917432-164410165	490.734
Ube2cbp	0	0	0	369	6.15	3.04945	42.8345	Stalled	chr9:86200840-86360523	157.684
Try5	0	0	0	0	0	0.080002	0	Unclassified	chr6:41261230-41266709	3.48
Rpn1	0	0	0	799	13.31667	63.886	7.560938	Unclassified	chr6:88032466-88055298	20.833
Mmp10	0	0	0	10	0.166667	0.104684	1.602701	Unclassified	chr9:7500359-7510240	7.882
Wfdc3	0	0	0	20	0.333333	0.046889	0.787576	Unclassified	chr2:164556725-164570767	12.043
Zfp11	0	0	0	206	3.433333	0.366456	28.79475	Stalled	chr5:130160469-130177963	15.495
Zfp101	0	0	0	200	3.333333	3.32825	14.06229	Stalled	chr17:33517123-33533582	14.46
Tspyl2	0	0	0	296	4.933333	12.2344	8.526261	Unclassified	chrX:148771394-148779027	5.634
Zfp105	0	0	0	9	0.15	0.140698	0.49828	Unclassified	chr9:122830195-122840146	7.952
Rnf103	0	0	0	347	5.783333	5.72014	41.75416	Stalled	chr6:71441887-71460875	16.989
Khdrbs3	0	0	0	159	2.65	0.480697	1.547627	Unclassified	chr15:68756849-68923948	165.1
Hunk	0	0	0	146	2.433333	0.097229	2.223963	Unclassified	chr16:90384641-90499798	113.158
Arhgap20	0	0	0	66	1.1	0.090625	3.5705	Unclassified	chr9:51571456-51661164	87.709
Rab3d	0	0	0	75	1.25	2.10166	8.978188	Unclassified	chr9:21711954-21724565	10.612
C1qtnf9	0	0	0	23	0.383333	0.013477	0	Unclassified	chr14:61384970-61399705	12.736
Fgd6	0	0	0	423	7.05	0.933616	33.96498	Stalled	chr10:93496745-93608084	109.34
Fam162b	0	0	0	5	0.083333	0.069403	0	Unclassified	chr10:51305256-51312266	5.011
Homer1	0	0	0	468	7.8	3.71282	32.40498	Stalled	chr13:94072449-94174917	100.469
Dfna5	0	0	0	178	2.966667	0.078112	2.946229	Unclassified	chr6:50157401-50213768	54.368
Cul3	0	0	0	916	15.26667	13.0605	24.84169	Unclassified	chr1:80263392-80339005	73.614
Panx3	0	0	0	10	0.166667	0.035629	1.086281	Unclassified	chr9:37467486-37478807	9.322
Sirpa	0	0	0	162	2.7	1.6083	3.271205	Unclassified	chr2:129417313-129457964	38.652
Atg10	0	0	0	858	14.3	1.13087	108.0004	Stalled	chr13:91074953-91365592	288.64
Cntnap2	0	0	0	933	15.55	0.026574	0.706431	Unclassified	chr6:45008059-47251370	2241.312
Grtp1	0	0	0	174	2.9	1.07591	1.273069	Unclassified	chr8:13176868-13202624	23.757
Efcab1	0	0	0	9	0.15	0	0.678431	Unclassified	chr16:14904738-14924615	17.878
Wdr61	0	0	0	398	6.633333	28.163	12.25535	Unclassified	chr9:54564961-54584301	17.341
Nr2c1	0	0	0	253	4.216667	1.28589	18.96801	Stalled	chr10:93608675-93659959	49.285
Crisp2	0	0	0	10	0.166667	0.045513	0.759055	Unclassified	chr17:40901685-40933037	29.353
Spinlw1	0	0	0	6	0.1	0.033951	1.027947	Unclassified	chr2:164413842-164421071	5.23
Gnptg	0	0	0	207	3.45	11.6241	8.107123	Unclassified	chr17:25371261-25379061	5.801
1700018L24Rik	0	0	0	35	0.583333	0	0.321911	Unclassified	chr8:11838520-11855761	15.242
Klhl23	0	0	0	25	0.416667	0.48018	3.152124	Unclassified	chr2:69658426-69674707	14.282
1700109H08Rik	0	0	0	356	5.933333	0	1.071195	Elongating	chr5:3569715-3584341	12.627
Mrap	0	0	0	56	0.933333	0	0.691699	Unclassified	chr16:90736568-90750021	11.454
2510039O18Rik	0	0	0	325	5.416667	34.0984	4.644079	Unclassified	chr4:147313003-147321423	6.421
V1rg9	0	0	0	0	0	0	0	Unclassified	chr7:12845107-12848028	0.922
Camk2n2	0	0	0	157	2.616667	1.8192	1.565091	Elongating	chr16:20619287-20623351	2.065
Glrx5	0	0	0	383	6.383333	75.0674	15.01691	Unclassified	chr12:106268898-106279120	8.223
V1rg7	0	0	0	0	0	0	0	Unclassified	chr7:12735812-12738753	0.942
Prpf8	0	0	0	983	16.38333	46.9789	4.158277	Unclassified	chr11:75298278-75322949	22.672
Olfr1418	0	0	0	5	0.083333	0.167259	3	Unclassified	chr19:11929484-11932441	0.958
Olfr1148	0	0	0	0	0	0.020327	0	Unclassified	chr2:87671197-87674142	0.946
Olfr310	0	0	0	0	0	0	0	Unclassified	chr7:93417239-93420321	1.083
Ehf	0	0	0	47	0.783333	0.1636	0.462783	Unclassified	chr2:103103589-103145353	39.765

Ei24	0	0	0	123	2.05	15.2155	24.94872	Stalled	chr9:36586740-36606653	17.914
Socs7	0	0	0	481	8.016667	5.54029	15.12076	Unclassified	chr11:97221864-97259856	35.993
Ribp1	0	0	0	13	0.216667	0.048001	0.426277	Unclassified	chr7:86519756-86531671	9.916
Igfbp6	0	0	0	9	0.15	0.1392	0.764124	Unclassified	chr15:101972616-101979943	5.328
Stard6	0	0	0	256	4.266667	0.196078	55.69365	Stalled	chr18:70630198-70660717	28.52
C80913	0	0	0	724	12.06667	7.84095	20.91616	Unclassified	chr7:38745011-38806571	59.561
GpnmB	0	0	0	46	0.766667	1.07271	0.32978	Unclassified	chr6:48984516-49008181	21.666
Narg2	0	0	0	415	6.916667	2.44594	46.43246	Stalled	chr9:69243804-69280881	35.078
Gpr45	0	0	0	62	1.033333	0.258891	2.371845	Unclassified	chr1:43007716-43092294	82.579
Plk5	0	0	0	27	0.45	0.121367	0.802344	Unclassified	chr10:79817203-79828234	9.032
Gm7337	0	0	0	5	0.083333	0.056522	0	Unclassified	chr5:88277383-88282037	2.655
Insm2	0	0	0	74	1.233333	0.56989	0.31082	Unclassified	chr12:56697903-56703004	3.102
OlfR749	0	0	0	2	0.033333	0	0	Unclassified	chr14:51355895-51365999	8.105
Prkd3	0	0	0	430	7.166667	6.12536	13.79235	Stalled	chr17:79348745-79422156	71.412
Fgfr10p	0	0	0	459	7.65	7.00881	2.000339	Elongating	chr17:8356400-8389333	30.934
Adam28	0	0	0	31	0.516667	0.082879	0	Unclassified	chr14:69224083-69275899	49.817
CrB3	0	0	0	50	0.833333	0.554339	0.389626	Unclassified	chr17:57199699-57205337	3.639
Sic26a2	0	114.7574	0	411	6.85	2.53427	30.36294	Unclassified	chr18:61356507-61373250	14.744
Adam24	0	0	0	4	0.066667	0	0	Unclassified	chr8:41758447-41767553	7.107
Dtna	0	0	0	167	2.783333	0.089647	0	Unclassified	chr18:23571915-23818215	244.301
OlfR898	0	0	0	1	0.016667	0.026982	0	Unclassified	chr9:38154669-38157619	0.951
Tm6sf2	0	0	0	96	1.6	0.424801	10.42562	Stalled	chr8:72594830-72603951	7.122
Pri8a2	0	0	0	3	0.05	0.028137	0	Unclassified	chr13:27435557-27446073	8.517
Fmo2	0	0	0	26	0.433333	0.026893	0	Unclassified	chr1:164805177-164830843	23.667
Hhla1	0	0	0	24	0.4	0.050993	0	Unclassified	chr15:65754004-65810366	54.363
Sic25a5	0	0	0	514	8.566667	130.45	5.74724	Unclassified	chrX:34333646-34338801	3.156
Anxa11	0	0	0	481	8.016667	10.8157	13.54741	Unclassified	chr14:26659640-26706290	44.651
Anxa3	0	0	0	63	1.05	0.216682	0.454153	Unclassified	chr5:97220403-97274987	52.585
Anxa4	0	0	0	246	4.1	3.83878	15.84067	Stalled	chr6:86686833-86745578	56.746
4925202D21Rik	0	0	0	16	0.266667	0.090025	0.835969	Unclassified	chr6:129272182-129283799	9.618
Qsox1	0	0	0	366	6.1	8.55549	23.39958	Unclassified	chr1:157625284-157662029	34.746
Git6d1	0	0	0	18	0.3	0.035242	0	Unclassified	chr2:25649486-25673356	21.871
Rtn1	0	0	0	296	4.933333	0.415783	1.210572	Unclassified	chr12:73312738-73511926	197.189
Erc1	0	0	0	588	9.8	1.55631	24.53831	Stalled	chr6:119520813-11980168	277.356
Ctsq	0	0	0	1	0.016667	0	0	Unclassified	chr13:61136402-61143958	5.557
Ube4a	0	0	0	671	11.18333	6.68969	18.50975	Unclassified	chr9:44731209-44775683	42.475
Wnt8a	0	0	0	15	0.25	0.143435	0	Unclassified	chr18:34699981-34707715	5.735
Serpinb9d	0	0	0	13	0.216667	0.043941	1.001149	Unclassified	chr13:33282827-33295849	11.023
Ucma	0	0	0	23	0.383333	0.081633	0.281703	Unclassified	chr2:4895167-4906794	9.628
Serpinb5	0	0	0	21	0.35	0.019987	0	Unclassified	chr1:108755756-108779925	22.17
Lck	0	0	0	188	3.133333	13.2864	1.62505	Elongating	chr4:129225587-129237616	10.03
Stra8	0	0	0	50	0.833333	0.044042	0.531751	Unclassified	chr6:34868959-34889342	18.384
Spic	0	0	0	7	0.116667	0.131709	0	Unclassified	chr10:88138014-88147768	7.755
Spin1	0	0	0	634	10.56667	10.8037	11.64478	Unclassified	chr13:51194266-51247915	51.65
Kcnu1	0	0	0	77	1.283333	0.018148	0	Unclassified	chr8:26958094-27048406	88.313
Tcf15	0	0	0	12	0.2	0.275324	0	Unclassified	chr2:151967344-151974832	5.489
Nudt10	0	0	0	0	0	0.173705	0	Unclassified	chrX:5745814-5752109	4.296
Zfp512	0	0	0	249	4.15	6.20292	15.52136	Stalled	chr5:31752808-31784124	29.317
Tatdn2	0	0	0	808	13.46667	23.1004	8.993076	Unclassified	chr6:113645492-113661062	13.571
Cntn5	0	0	0	501	8.35	0.014217	1.427042	Unclassified	chr9:9660890-10906726	1243.837
Gm12942	0	0	0	165	2.75	3.13352	12.81159	Stalled	chr4:126801289-126806888	3.6
Rbm26	0	0	0	997	16.61667	9.77078	35.75969	Unclassified	chr14:105513735-105578544	62.81
Hus1b	0	0	0	15	0.25	0.370147	13	Unclassified	chr13:31038712-31041543	0.832
Bspry	0	0	0	98	1.633333	1.96326	4.432455	Unclassified	chr4:62139100-62158332	17.233
Glyctk	0	0	0	70	1.166667	1.55999	0.834633	Unclassified	chr9:106055190-106062469	5.28
Xlr5b	0	0	0	0	0	0	0	Unclassified	chrX:70392179-70403738	9.56
Gm13124	0	0	0	3	0.05	0	0.901342	Unclassified	chr4:144144902-144157037	10.136
Naa20	0	0	0	18	0.3	0	0.583078	Unclassified	chr8:70045752-70072526	24.775
Ypel4	0	0	0	17	0.283333	0.920321	2.158501	Unclassified	chr2:84572360-84578034	3.675
Prmt8	0	0	0	107	1.783333	0.445333	1.321397	Unclassified	chr6:127639028-127720747	79.72
Tacc1	0	0	0	1785	29.75	8.51078	8.688398	Unclassified	chr8:26265023-26313921	46.899
Neurod2	0	0	0	11	0.183333	0.3349	0.947214	Unclassified	chr11:98186730-98192959	4.23
Rps29	0	0	0	401	6.683333	144.71	4.665201	Unclassified	chr12:70258708-70262173	1.466
Zfp455	0	0	0	59	0.983333	0.709454	6.626807	Unclassified	chr13:67293441-67310234	14.794
OlfR1166	0	0	0	0	0	0.009457	0	Unclassified	chr2:87963516-87967150	1.635
Zfp595	0	0	0	137	2.283333	1.3378	19.71472	Stalled	chr13:67413933-67435496	19.564
Vps37d	0	0	0	45	0.75	0.467676	2.527974	Unclassified	chr5:135548770-135556136	5.367
Rxfp1	0	0	0	73	1.216667	0.073172	0	Unclassified	chr3:79448637-79543716	93.08
Optc	0	0	0	23	0.383333	0.142872	2.248464	Unclassified	chr1:135793771-135806576	10.806
Lmnb2	0	0	0	485	8.083333	13.5917	5.802228	Unclassified	chr10:80364107-80382990	16.884
Lmna	0	0	0	252	4.2	2.58872	5.873892	Unclassified	chr3:88285070-88309254	22.185
Lmo2	0	0	0	929	15.48333	73.449	0.048183	Unclassified	chr2:103796151-103822034	23.884
OlfR152	0	0	0	2	0.033333	0	2	Unclassified	chr2:87620692-87623643	0.952
Gm10565	0	0	0	17	0.283333	0.368061	3.184142	Unclassified	chr4:141638212-141644014	3.803
Ramp2	0	0	0	13	0.216667	0.499719	1.306629	Unclassified	chr11:101105647-101109564	1.918
Sic17a3	0	0	0	26	0.433333	0.038965	0.447904	Unclassified	chr13:23929302-23952583	21.282
AW209491	0	0	0	217	3.616667	3.62775	23.73727	Stalled	chr13:14720511-14730469	7.959
Ywhab	0	0	0	732	12.2	42.7118	12.51395	Unclassified	chr2:163818932-163844323	23.392
Sic4a4	0	0	0	261	4.35	0.055419	2.333328	Unclassified	chr5:89314284-89668681	352.398
Ndufa1	0	0	0	119	1.983333	124.414	15.58316	Stalled	chrX:34727583-34733233	3.651
Kcnip1	0	0	0	250	4.166667	0	0.460746	Unclassified	chr11:33529779-33745527	213.749
Secisbp2l	0	0	0	512	8.533333	7.08493	10.84771	Unclassified	chr2:125562721-125610606	45.886
Basp1	0	0	0	106	1.766667	7.4374	3.263232	Unclassified	chr15:25293032-25345519	50.488
Ppp4r1	0	0	0	1248	20.8	7.19127	11.09151	Unclassified	chr17:66130694-66191266	58.573
Steap1	0	0	0	6	0.1	0.042159	1.714224	Unclassified	chr5:5736321-5751317	12.997
Krcc1	0	0	0	484	8.066667	5.8026	26.54451	Unclassified	chr6:71220012-71235313	13.302

Olfir902	0	0	0	1	0.016667	0	0	Unclassified	chr9:38254376-38257431	1.056
1700090G07Rik	0	0	0	10	0.166667	0	0.802395	Unclassified	chr17:87314687-87321706	5.02
Tcf20	0	0	0	1155	19.25	8.7811	0.327639	Unclassified	chr15:82639054-82744564	103.511
Hnf1b	0	0	0	112	1.866667	1.17349	1.392674	Unclassified	chr11:83662370-83719317	54.948
Zeb1	0	0	0	1329	22.15	3.72952	22.18053	Unclassified	chr18:5589888-5774909	183.022
Tlr13	0	0	0	13	0.216667	0.047894	1.237223	Unclassified	chrX:103336613-103355832	17.22
Pnn	0	0	0	608	10.13333	54.6163	10.7425	Unclassified	chr12:60165905-60175004	7.1
Pnmt	0	0	0	7	0.116667	0.072164	0.567896	Unclassified	chr11:98245945-98249411	1.467
Tcfap2b	0	0	0	31	0.516667	0.126978	0	Unclassified	chr1:19196994-19228815	29.822
Tcfap2a	0	0	0	90	1.5	0.642239	0.164666	Unclassified	chr13:40811043-40831192	18.15
1700084C01Rik	0	0	0	5	0.083333	0.080102	0.611198	Unclassified	chr1:171857069-171864784	5.716
Defa-ps13	0	0	0	2	0.033333	0	0.757223	Unclassified	chr8:19298676-19304794	4.119
Olfir52	0	0	0	1	0.016667	0	1	Unclassified	chr2:86021306-86024266	0.961
Ccdc73	0	0	0	224	3.733333	0.133629	0.335152	Unclassified	chr2:104724480-104839894	113.415
Olfir1394	0	0	0	1	0.016667	0	1	Unclassified	chr11:48971517-48974456	0.94
Nes	0	0	0	43	0.716667	0.786612	3.508393	Unclassified	chr3:87773014-87784373	9.36
Defb43	0	0	0	11	0.183333	0	0.742929	Unclassified	chr14:63628607-63636925	6.319
Defb25	0	0	0	1	0.016667	0.131225	1	Unclassified	chr2:152448091-152450789	0.699
Frmppd1	0	0	0	117	1.95	0.077239	1.923396	Unclassified	chr4:45195777-45298808	101.032
Olfir1311	0	0	0	3	0.05	0	1	Unclassified	chr2:111861070-111864009	0.94
Mgat4c	0	0	0	6	0.1	0.01707	0	Unclassified	chr10:101835070-101854100	17.031
Mrfap1	0	0	0	271	4.516667	52.1108	34.72067	Unclassified	chr5:37186105-37189993	1.889
Tmem35	0	0	0	8	0.133333	0.287332	1.418013	Unclassified	chrX:130827763-130840508	10.746
Wdr48	0	0	0	715	11.91667	6.49795	9.403743	Unclassified	chr9:119802012-119835697	31.686
Pias1	0	128.7278	0	1019	16.98333	4.68704	19.76954	Unclassified	chr9:62727883-62830686	100.804
Nek1	0	0	0	804	13.4	7.66021	53.89178	Stalled	chr8:63470016-63609031	137.016
Gm12657	0	0	0	58	0.966667	0	1.308573	Unclassified	chr4:94258340-94267010	6.671
Cnn3	0	0	0	559	9.316667	16.9059	14.78398	Unclassified	chr3:121127458-121161123	31.666
Tslp	0	0	0	8	0.133333	0.204879	0	Unclassified	chr18:32973036-32979455	4.422
Erc2	0	0	0	589	9.816667	0.02739	0.592954	Unclassified	chr14:28433627-29291723	856.097
Snord82	0	0	0	141	2.35	0	60	Unclassified	chr1:88252834-88254902	0.069
Fbxo22	0	0	0	430	7.166667	12.2855	19.49311	Unclassified	chr9:55054741-55072240	15.5
Slc25a35	0	0	0	118	1.966667	2.45804	6.883218	Unclassified	chr11:68779632-68786017	4.386
Vwc2	0	0	0	87	1.45	0.028656	0	Unclassified	chr11:11012018-11163529	149.512
Gfra2	0	0	0	118	1.966667	0.270246	1.776776	Unclassified	chr14:71287936-71379645	89.71
Timm23	0	0	0	826	13.76667	7.58416	10.23783	Unclassified	chr14:32993351-33017077	21.727
Tmem22	0	0	0	23	0.383333	0.226408	1.49578	Unclassified	chr9:100452606-100473504	18.899
Btg4	0	0	0	2	0.033333	0.019552	0	Unclassified	chr9:50922105-50927805	3.701
Atp5a1	0	0	0	858	14.3	243.672	6.260034	Unclassified	chr18:78010506-78021607	9.102
Fbxw9	0	0	0	137	2.283333	10.3724	6.967395	Unclassified	chr8:87582017-87591019	7.003
Zbtb24	0	0	0	504	8.4	4.97922	18.84607	Unclassified	chr10:41168201-41185380	15.18
Elac2	0	0	0	586	9.766667	14.3717	13.50277	Unclassified	chr11:64790536-64815578	23.043
Mrpl46	0	0	0	262	4.366667	31.17	12.69231	Unclassified	chr7:85920226-85929975	7.75
AI427809	0	0	0	10	0.166667	0.063041	1.223482	Unclassified	chr4:53274227-53285104	8.878
Prrx2	0	0	0	89	1.483333	0.090977	0.298426	Unclassified	chr2:30698886-30736765	35.88
Gpx7	0	0	0	53	0.883333	1.84661	13.65209	Stalled	chr4:108072821-108081318	6.498
Fam164a	0	0	0	53	0.883333	0.183036	12.9054	Stalled	chr3:7501425-7553848	50.424
Olfir65	0	0	0	1	0.016667	0	1	Unclassified	chr7:111049970-111056050	4.081
Olfir66	0	0	0	4	0.066667	0	3	Unclassified	chr7:111029819-111032755	0.937
Olfir64	0	0	0	3	0.05	0	2	Unclassified	chr7:111041323-111044985	1.663
Olfir60	0	0	0	1	0.016667	0.07811	1	Unclassified	chr7:147530950-147533886	0.937
Olfir62	0	0	0	1	0.016667	0.040601	0	Unclassified	chr4:118336123-118339070	0.948
Slc22a7	0	0	0	20	0.333333	0.134102	0.745844	Unclassified	chr17:46569133-46577426	6.294
Lce1i	0	0	0	1	0.016667	0	1	Unclassified	chr3:92581131-92584821	1.691
Gm6890	0	0	0	0	0	0	0	Unclassified	chrX:71984265-71987527	1.263
Olfir67	0	0	0	6	0.1	0.020638	0	Unclassified	chr7:110935725-110942344	4.62
Nedd1	0	0	0	414	6.9	2.96663	40.0552	Stalled	chr10:92147489-92187163	37.675
Gbp2	0	0	0	233	3.883333	60.8842	4.005014	Unclassified	chr3:142281626-142300972	17.347
Ndufs4	0	0	0	556	9.266667	31.0255	21.00112	Stalled	chr13:115078003-115180302	100.3
S100b	0	0	0	32	0.533333	0.169753	0.365507	Unclassified	chr10:75714580-75724064	7.485
Gata3	0	0	0	28	0.466667	0.769258	0.882297	Unclassified	chr2:9778704-9802227	21.524
Gata4	0	0	0	61	1.016667	0.162318	2.428948	Unclassified	chr14:63817751-63866097	46.347
Gata1	0	0	0	10	0.166667	0.099296	0	Unclassified	chrX:7536385-7546941	8.557
Ppia	0	0	0	1507	25.11667	0	7.537954	Unclassified	chr11:6313872-6319813	3.942
Gbas	0	0	0	464	7.333333	6.06539	20.1682	Unclassified	chr5:130228949-130264201	33.253
Gata5	0	0	0	23	0.383333	0.036869	1.747042	Unclassified	chr2:180059792-180071384	9.593
Gata6	0	0	0	33	0.55	0.09229	1.017853	Unclassified	chr18:11050507-11085633	33.127
Otop2	0	0	0	50	0.833333	0.098798	0.33007	Unclassified	chr11:115166476-115193617	25.142
Usp31	0	0	0	489	8.15	1.15618	15.34863	Unclassified	chr7:128785535-128852767	65.233
Mov10	0	0	0	384	6.4	8.30278	14.58273	Unclassified	chr3:104597749-104623223	23.475
Kcns1	0	0	0	63	1.05	1.52603	0.756874	Unclassified	chr2:163989354-163998849	7.496
Cdr2l	0	0	0	33	0.55	0.325604	0.597856	Unclassified	chr11:115241229-115257446	14.218
Lilra5	0	0	0	7	0.116667	0.048616	1.081621	Unclassified	chr7:4187355-4195065	5.711
Epm2a	0	0	0	152	2.533333	1.38939	32.93896	Stalled	chr10:11061242-11177275	114.034
Ephx2	0	0	0	60	1	0.352685	3.950912	Unclassified	chr14:66703213-66745337	40.125
Vps33b	0	0	0	384	6.4	10.4503	10.91751	Unclassified	chr7:87412540-87436465	21.926
Epo	0	0	0	10	0.166667	0.053775	0.408729	Unclassified	chr5:137924247-137929044	2.798
Ppp1r12c	0	0	0	737	12.28333	30.622	8.922957	Unclassified	chr7:4433122-4455282	20.161
Epn2	0	0	0	156	2.6	0.353112	7.021101	Unclassified	chr11:61330750-61395153	62.404
Tmod3	0	0	0	490	8.166667	13.5211	23.01157	Unclassified	chr9:75345590-75409464	61.875
Tmod4	0	0	0	105	1.75	0.154624	0.480023	Unclassified	chr3:94926435-94933130	4.696
Gpr98	0	0	0	336	5.6	0.040449	0.61586	Unclassified	chr13:81234066-81774143	538.078
Btbd3	0	0	0	20	0.333333	0.074605	0.637062	Unclassified	chr2:138080319-138113158	30.84
Vash1	0	0	0	91	1.516667	1.69593	3.159894	Unclassified	chr12:88017649-88036630	16.982
DOH4S114	0	0	0	22	0.366667	0.218939	4.550735	Unclassified	chr18:33596672-33625683	27.012
Itgal	0	0	0	1305	21.75	57.6333	4.696855	Unclassified	chr7:134437861-134477412	37.552

Olfr728	0	0	0	0	0	0	0	Unclassified	chr14:50759376-50762312	0.937
Tesk2	0	0	0	394	6.566667	4.56105	12.69813	Stalled	chr4:116391559-116476853	83.295
Tmem145	0	0	0	19	0.316667	0.418132	1.292949	Unclassified	chr7:26089126-26101214	10.089
Plin5	0	0	0	58	0.966667	0.078144	0.265367	Unclassified	chr17:56251023-56258971	5.949
Trit1	0	0	0	671	11.18333	7.06987	9.11293	Unclassified	chr4:122691839-122732177	38.339
Golt1b	0	0	0	653	10.88333	6.13683	20.44566	Unclassified	chr6:142333762-142352378	16.617
Ctu2	0	0	0	557	9.283333	13.327	2.424796	Elongating	chr8:124998042-125006992	6.951
Olfr191	0	0	0	0	0	0.026291	0	Unclassified	chr16:59085377-59088307	0.931
Olfr198	0	0	0	1	0.016667	0.090435	1	Unclassified	chr16:59201329-59204250	0.922
Gm10334	0	0	0	2	0.033333	0.012703	0.7426	Unclassified	chr6:41392212-41398096	3.885
Mageb3	0	0	0	423	7.05	3.64338	219.8356	Stalled	chr2:121779506-121783828	2.323
1700034015Rik	0	0	0	1	0.016667	0.034592	0	Unclassified	chr6:41632429-41635716	1.288
Sic25a41	0	0	0	67	1.116667	0.198622	0.108172	Unclassified	chr17:57172194-57183077	8.884
Dmrt2	0	0	0	57	0.95	0.839345	2.221951	Unclassified	chr4:109648629-109656289	5.661
Defb7	0	0	0	1	0.016667	0	0	Unclassified	chr8:19493096-19497775	2.68
Zdhhc19	0	0	0	24	0.4	0.214964	0	Unclassified	chr16:32494366-32507300	10.935
Wscd2	0	0	0	135	2.25	0.020854	0	Unclassified	chr5:113917466-114039679	120.214
Tmem40	0	0	0	68	1.133333	0.0519601	7.324873	Unclassified	chr6:115679158-115711017	29.86
Nut	0	0	0	45	0.75	0.048091	1.49788	Unclassified	chr2:112088104-112101448	11.345
Onecut2	0	0	0	57	0.95	0.053597	1.02813	Unclassified	chr18:64498017-64458142	58.126
Gucy2f	0	0	0	30	0.5	0.009468	0.798293	Unclassified	chrX:138515702-138633474	115.773
Rhcg	0	0	0	45	0.75	0.116568	0.346162	Unclassified	chr7:86738249-86764543	24.295
Gm101	0	0	0	67	1.116667	0.030624	0.520978	Unclassified	chr1:121820095-121893787	71.693
Pxmp2	0	0	0	327	5.45	5.31917	90.26101	Stalled	chr5:110703304-110717187	11.884
Nupr1	0	0	0	29	0.483333	1.57554	2.158029	Unclassified	chr7:133766759-133770984	2.226
Ppig	0	0	0	527	8.783333	9.47096	29.09755	Unclassified	chr2:69559144-69592116	30.973
Vmn2r-ps11	0	0	0	47	0.783333	0.005159	0.820929	Unclassified	chr3:64436784-64650665	211.882
Nol4	0	0	0	143	2.383333	0.124768	0.709908	Unclassified	chr18:22851655-23202154	348.5
Calb2	0	0	0	29	0.483333	0.026869	0.477453	Unclassified	chr8:112666437-112694106	25.67
C1ql2	0	0	0	9	0.15	0.454786	0.569896	Unclassified	chr1:122235158-122239751	2.594
Oxnad1	0	0	0	312	5.2	6.942	43.6218	Stalled	chr14:32896913-32916389	17.477
Ccnk	0	0	0	825	13.75	18.8514	7.336684	Unclassified	chr12:109415947-109441569	23.623
Kif24	0	0	0	712	11.86667	3.7931	32.08742	Unclassified	chr4:41337780-41413881	74.102
Hmgn2	0	0	0	533	8.883333	20.9414	13.21926	Unclassified	chr4:133520653-133525906	3.254
Sic7a9	0	0	0	22	0.366667	0.0203	0.454368	Unclassified	chr7:36232197-36251018	16.822
Polk	0	0	0	464	7.733333	3.53577	58.92258	Stalled	chr13:97250643-97314440	61.798
Ccr6	0	0	0	180	3	3.70878	1.737259	Elongating	chr17:8433390-8449992	14.603
Cttnbp2nl	0	0	0	69	1.15	0.279968	3.645508	Unclassified	chr3:104804834-104858064	51.231
Wdr75	0	0	0	567	9.45	10.3076	19.68325	Unclassified	chr1:45850345-45880458	28.114
Bckdk	0	0	0	282	4.7	10.5444	11.57851	Unclassified	chr7:135045586-135053178	5.593
Defb30	0	0	0	5	0.083333	0.090712	0	Unclassified	chr14:63652923-63658670	3.748
Olfr1082	0	0	0	1	0.016667	0.019403	0	Unclassified	chr2:86434041-86440966	4.926
Unc5c	0	0	0	191	3.183333	0.054212	1.331358	Unclassified	chr3:141126527-141497886	369.36
Tex19.1	0	0	0	6	0.1	0.04422	0.561841	Unclassified	chr11:121005456-121009627	2.172
Ung	0	0	0	503	8.383333	18.1189	3.08906	Unclassified	chr5:114578443-114589330	8.888
Olfr606	0	0	0	3	0.05	0	2	Unclassified	chr7:110597852-110600812	0.961
Cpne4	0	0	0	338	5.633333	0.052515	0	Unclassified	chr9:104470117-104936874	464.758
Bcl2a1a	0	0	0	4	0.066667	30.7964	1.384426	Unclassified	chr9:88849757-88857254	5.498
Rd3	0	0	0	31	0.516667	0.326164	0.898022	Unclassified	chr1:193799269-193809795	8.527
Taf4b	0	0	0	983	16.38333	2.9067	57.07296	Unclassified	chr18:14939753-15058868	117.116
Dzip1l	0	0	0	40	0.666667	0.032628	0.51099	Unclassified	chr9:99528013-99569675	39.663
Ier5l	0	0	0	131	2.183333	4.75988	25.8125	Unclassified	chr2:30328160-30331719	1.56
2610507B11Rik	0	0	0	591	9.85	17.5799	16.87873	Unclassified	chr11:78073255-78104128	28.874
Cwf191l	0	0	0	654	10.9	4.24654	8.637434	Unclassified	chr19:44183126-44212366	27.241
Olfr993	0	0	0	0	0	0.016352	0	Unclassified	chr2:85254089-85257034	0.946
Odf3l2	0	0	0	12	0.2	0.051348	1.578326	Unclassified	chr10:79102270-79110483	6.214
Rps6kb1	0	0	0	858	14.3	7.83252	23.94276	Unclassified	chr11:86312512-86360309	45.798
Kctd3	0	0	0	597	9.95	5.614	8.402006	Unclassified	chr1:190794976-190833719	36.744
Tnip2	0	0	0	514	8.566667	15.0628	9.826588	Unclassified	chr5:34838744-34858628	17.885
Bcl2l10	0	0	0	9	0.15	0.03131	0.837885	Unclassified	chr9:75193564-75199447	3.884
Dok7	0	0	0	52	0.866667	0.041293	0	Unclassified	chr5:35397732-35430480	30.749
Zfp462	0	0	0	113	1.883333	0.068346	0	Unclassified	chr4:54958816-55096435	135.62
Kdm3b	0	0	0	1098	18.3	10.6099	9.630907	Unclassified	chr18:34934661-34999024	62.364
Zfp763	0	0	0	130	2.166667	2.10531	4.95955	Unclassified	chr17:33153808-33172326	16.519
Cyp2d22	0	0	0	39	0.65	0.577057	1.664344	Unclassified	chr15:82200957-82212690	9.734
Actr10	0	0	0	362	6.033333	4.60438	30.5731	Stalled	chr12:72036843-72065702	26.86
Dnaja2	0	0	0	763	12.71667	36.7512	18.72015	Unclassified	chr8:88061538-88081170	17.633
Arpc1a	0	0	0	583	9.716667	36.4442	9.61432	Unclassified	chr5:145842737-145869625	24.889
Nat6	0	0	0	196	3.266667	8.26002	2.083472	Elongating	chr9:107480500-107486379	3.88
Tmem87b	0	0	0	322	5.366667	2.12904	29.51559	Stalled	chr2:128642038-128679997	35.96
Gabrq	0	0	0	6	0.1	0.012816	0.707773	Unclassified	chrX:70068774-70083883	13.11
Ly6i	0	0	0	9	0.15	11.4452	1.031496	Unclassified	chr15:74810241-74815860	3.62
AI894139	0	0	0	586	9.766667	0	4.680234	Unclassified	chr6:47901388-47915296	11.909
Zfp276	0	0	0	429	7.15	7.17126	5.428826	Unclassified	chr8:125776094-125794451	16.358
Skint7	0	0	0	1	0.016667	0.031997	0	Unclassified	chr4:111643531-111660824	15.294
Olfr604	0	0	0	1	0.016667	0.034041	1	Unclassified	chr7:110531575-110534514	0.94
Olfr686	0	0	0	1	0.016667	0	0	Unclassified	chr7:112351901-112354855	0.955
Olfr166	0	0	0	1	0.016667	0.061339	0	Unclassified	chr16:19484932-19487871	0.94
Nkx3-2	0	0	0	17	0.283333	0.46353	0.647733	Unclassified	chr5:42152721-42157459	2.739
Barx1	0	0	0	7	0.116667	0.386091	0.661849	Unclassified	chr13:48756404-48761876	3.473
Olfr1352	0	0	0	1	0.016667	0.041343	0	Unclassified	chr10:78444536-78447466	0.931
Prkar2a	0	0	0	306	5.1	4.71826	13.70404	Stalled	chr9:108592473-108651842	57.37
Olfr656	0	0	0	1	0.016667	0.051783	0	Unclassified	chr7:111764170-111767160	0.991
Bax	0	0	0	313	5.216667	110.595	5.167236	Unclassified	chr7:52717064-52724268	5.205
Zranb3	0	0	0	468	7.8	3.08457	10.64144	Stalled	chr1:129850762-130000985	148.224
Ctdspl	0	0	0	249	4.15	0.375164	2.804336	Unclassified	chr9:118833653-118953237	117.585

Zfp607	0	0	0	274	4.566667	2.14621	24.55582	Stalled	chr7:28643603-28665844	20.242
Mtap7d1	0	0	0	516	8.6	19.3035	16.90644	Unclassified	chr4:125909413-125935563	24.151
Grm5	0	0	0	220	3.666667	0.185397	2.153933	Unclassified	chr7:94730677-95283573	550.897
Senp6	0	0	0	1570	26.16667	14.4213	12.10083	Unclassified	chr9:79912709-79992587	77.879
Ddah1	0	0	0	115	1.916667	0.16076	0	Unclassified	chr3:145419655-145557241	135.587
Fam159a	0	0	0	37	0.616667	0.56133	2.006793	Unclassified	chr4:108040381-108057954	15.574
Sat2	0	0	0	5	0.083333	0.276089	0.275887	Unclassified	chr11:69433610-69437371	1.762
Tshz3	0	0	0	60	1	0.017936	0.566015	Unclassified	chr7:37481136-37558476	75.341
Plekha4	0	0	0	500	8.333333	0.708271	100.9749	Stalled	chr7:52779699-52809599	27.901
Ccdc23	0	0	0	100	1.666667	19.07	6.93901	Unclassified	chr4:118865914-118873903	5.99
Spag1	0	0	0	91	1.516667	0.08958	1.986051	Unclassified	chr1:75369871-75428881	57.011
Myst3	0	0	0	1320	22	8.71638	22.24787	Unclassified	chr8:23968010-24053734	83.725
Zfp828	0	0	0	407	6.783333	8.20844	8.396596	Unclassified	chr8:13867640-13881638	11.999
Gstt4	0	0	0	16	0.266667	0.199839	1.269231	Unclassified	chr10:75277689-75287288	7.6
Epdr1	0	0	0	24	0.4	0.623996	3.073567	Unclassified	chr13:19683577-19713699	28.123
Grm7	0	0	0	387	6.45	0.018392	0.706206	Unclassified	chr6:110593591-111517224	921.634
Egfl8	0	0	0	47	0.783333	0.156114	0.529994	Unclassified	chr17:34750294-34754916	2.623
Fam5c	0	0	0	139	2.316667	0.042722	0	Unclassified	chr1:148340795-148749602	406.808
Hdc	0	0	0	83	1.383333	0.614408	0.230762	Unclassified	chr2:126419403-126446401	24.999
Tbx19	0	0	0	27	0.45	0.077033	0.477375	Unclassified	chr1:167067983-167092904	22.922
Strc	0	0	0	25	0.416667	0.020036	1.307134	Unclassified	chr2:121189462-121208676	17.215
Sec22a	0	0	0	316	5.266667	1.09469	28.17204	Stalled	chr16:35311216-35366004	52.789
Masp2	0	0	0	1035	17.25	0.075955	0.069546	Unclassified	chr4:147974652-147989589	12.938
Masp1	0	0	0	89	1.483333	0.060542	2.248138	Unclassified	chr16:23451857-23522663	68.807
Uhrf1bp1	0	0	0	600	10	5.51273	19.52278	Unclassified	chr10:89205735-89282614	74.88
Cdc23	0	0	0	522	8.7	0	8.793287	Unclassified	chr18:34791336-34813390	20.055
Ascl1	0	0	0	8	0.133333	0.175877	0.576766	Unclassified	chr10:86953785-86958405	2.621
4930505A04Rik	0	0	0	18	0.3	0.069277	0	Unclassified	chr11:30326005-30373829	45.825
Matk	0	0	0	306	5.1	2.08432	0.385302	Unclassified	chr10:80718289-80725726	5.438
Fxyd3	0	0	0	8	0.133333	0	0.925116	Unclassified	chr7:31855553-31863716	6.164
Usp50	0	0	0	83	1.383333	0.021996	0	Unclassified	chr2:126586785-126611196	22.412
Hdac11	0	0	0	134	2.233333	1.89082	6.434633	Unclassified	chr6:91104808-91124677	17.87
Gpr149	0	0	0	31	0.516667	0.088362	0.712034	Unclassified	chr3:62333884-62411062	75.179
Fgd5	0	0	0	130	2.166667	0.047873	0.405248	Unclassified	chr6:91935103-92025999	88.897
Duoxa1	0	0	0	16	0.266667	0.068491	1.91482	Unclassified	chr2:122129284-122141466	10.183
Cdsn	0	0	0	14	0.233333	0.047858	1.00896	Unclassified	chr17:35687072-35694125	5.054
Apbh	0	0	0	3	0.05	0	3	Unclassified	chr7:32075537-32078835	1.299
Trpc6	0	0	0	68	1.133333	0.078652	0	Unclassified	chr9:8542141-8680741	136.601
Znhit1	0	0	0	229	3.816667	21.1577	3.0314	Unclassified	chr5:137458070-137465752	5.683
Cyp4f16	0	0	0	103	1.716667	2.13031	1.067722	Unclassified	chr17:32671573-32688742	15.17
Gm7092	0	0	0	6	0.1	0.126755	2	Unclassified	chr7:26399639-26402911	1.273
Olf952	0	0	0	0	0	0	0	Unclassified	chr9:39233709-39236654	0.946
Gspt2	0	0	0	12	0.2	1.10242	3.848311	Unclassified	chrX:91879407-91883900	2.494
Mmp19	0	0	0	38	0.633333	0.165927	0.667595	Unclassified	chr10:128226008-128237880	9.873
Aspg	0	0	0	44	0.733333	0.042221	1.688854	Unclassified	chr12:113342893-113365784	20.892
Arhgef9	0	0	0	80	1.333333	0.29407	24.56787	Stalled	chrX:92244282-92363825	117.544
Pctp	0	0	0	104	1.733333	4.18685	14.17634	Stalled	chr11:89844730-89866208	19.479
Gnai1	0	0	0	60	1	0.12443	0.619123	Unclassified	chr5:17770952-17868231	95.28
Cdk16	0	0	0	443	7.383333	13.1011	10.1674	Unclassified	chrX:20263618-20277003	11.386
Gna11	0	0	0	402	6.7	5.20555	5.763489	Unclassified	chr10:80991476-81009791	16.316
Furin	0	0	0	233	3.883333	4.38482	0.453466	Unclassified	chr7:87534079-87552317	16.239
Pcdh24	0	0	0	82	1.366667	0.183535	1.656977	Unclassified	chr13:54800823-54838022	35.2
BC054059	0	0	0	27	0.45	0.060837	0.9369	Unclassified	chr2:158326347-158333934	5.588
Cd300lf	0	0	0	216	3.6	1.98335	5.500361	Unclassified	chr11:114977528-114997306	17.779
Rab3gap1	0	0	0	758	12.63333	10.302	36.84374	Unclassified	chr1:129763349-129840453	75.105
Cda	0	0	0	57	0.95	0.237633	2.570135	Unclassified	chr4:137894442-137925870	29.429
Gpm6a	0	0	0	64	1.066667	0.402435	0.625062	Unclassified	chr8:56038195-56146222	106.028
Sall1	0	0	0	33	0.55	0.036576	0.33222	Unclassified	chr8:91551142-91570061	16.92
Lrrc49	0	0	0	219	3.65	1.86056	7.477906	Unclassified	chr9:60435045-60537941	100.897
Cyp2b13	0	0	0	10	0.166667	0.003408	0.808167	Unclassified	chr7:26844513-26881215	34.703
Cyp2b10	0	0	0	24	0.4	0.013693	1.119331	Unclassified	chr7:26680682-26711643	28.962
Vwde	0	0	0	15	0.25	0.022547	1.554268	Unclassified	chr6:13135609-13176965	39.357
Cyp2a5	0	0	0	3	0.05	0.011201	0	Unclassified	chr7:27618357-27628283	7.927
Cyp2a4	0	0	0	2	0.033333	0.018674	0	Unclassified	chr7:27090210-27100107	7.898
Gnat2	0	0	0	30	0.5	0.554904	0.231237	Unclassified	chr3:107893985-107904203	8.219
Cyp26a1	0	0	0	16	0.266667	0.395788	1.250859	Unclassified	chr19:37770297-37776026	3.73
Tmem39b	0	0	0	299	4.983333	8.37487	14.35278	Unclassified	chr4:129353598-129376082	20.485
Pla2g1b	0	0	0	34	0.566667	2.27472	0.184238	Unclassified	chr5:115914274-115924726	8.453
Pla2r1	0	0	0	148	2.466667	0.220931	3.438368	Unclassified	chr2:60257095-60393318	134.224
Ybx1	0	0	0	1147	19.11667	214.139	10.0955	Unclassified	chr4:118949931-118969118	17.188
Gm5640	0	0	0	0	0	0	0	Unclassified	chrX:71884457-71892974	6.518
Phtf2	0	0	0	1047	17.45	4.42492	33.49413	Unclassified	chr5:20264481-20389942	123.462
Pkp1	0	0	0	86	1.433333	0.054282	1.087553	Unclassified	chr1:137767971-137817601	47.631
Pklr	0	0	0	22	0.366667	0.079464	0.310435	Unclassified	chr3:88938063-88950516	10.454
Pknox1	0	0	0	648	10.8	3.46186	24.89233	Unclassified	chr17:31699717-31744637	42.921
Pri3b1	0	0	0	0	0	0.027385	0	Unclassified	chr13:27332298-27341609	7.312
Lypla1	0	0	0	408	6.8	7.1936	40.89436	Stalled	chr1:4795973-4836816	38.844
Scx	0	0	0	98	1.633333	0	1.473146	Unclassified	chr15:76285867-76289890	2.024
Star	0	0	0	214	3.566667	0.410913	0.439351	Unclassified	chr8:26916984-26926454	7.471
Abhd5	0	0	0	165	2.75	1.24558	47.69991	Stalled	chr9:122258733-122290641	29.909
Zdhhc4	0	0	0	516	8.6	7.65794	12.18861	Unclassified	chr5:144078169-144092905	12.737
Sct	0	0	0	6	0.1	0.480296	6	Unclassified	chr7:148464236-148467030	0.795
Zc3h7b	0	0	0	781	13.01667	12.1905	5.060412	Unclassified	chr15:81573277-81626699	51.423
Scp2	0	0	0	513	8.55	9.66083	17.16872	Unclassified	chr4:107716443-107793104	74.662
Msx3	0	0	0	14	0.233333	0.515567	1.70566	Unclassified	chr7:147232055-147236987	2.933
Agap1	0	0	0	567	9.45	0.152349	0.875032	Unclassified	chr1:91349385-91791857	440.473

AI747448	0	0	0	7	0.116667	0.016843	1.609528	Unclassified	chr3:144573884-144597493	21.61
Susd4	0	0	0	154	2.566667	0.081873	1.386465	Unclassified	chr1:184693036-184825785	130.75
Fcho2	0	0	0	478	7.966667	0.99638	24.40323	Stalled	chr13:99493361-99587404	92.044
Rnaset2a	0	0	0	111	1.85	56.2249	12.59973	Stalled	chr17:8321462-8342653	19.192
Tmem85	0	0	0	283	4.716667	23.9336	10.13201	Unclassified	chr2:112203175-112210184	5.01
II20	0	0	0	5	0.083333	0	1.216608	Unclassified	chr1:132803768-132809873	4.106
Lim2	0	0	0	12	0.2	0	0.898274	Unclassified	chr7:50683470-50691361	5.892
Siglec5	0	0	0	13	0.216667	0.17338	0.414074	Unclassified	chr7:50604774-50614840	8.067
8430426H19Rik	0	0	0	119	1.983333	2.44021	21.24223	Stalled	chr13:62554376-62570172	13.797
Armc7	0	0	0	504	8.4	6.60132	7.368466	Unclassified	chr11:115334990-115351780	14.791
Kprp	0	0	0	3	0.05	0	0	Unclassified	chr3:92626995-92633169	4.175
Cyp2c55	0	0	0	18	0.3	0.051549	0	Unclassified	chr19:39079508-39117177	35.67
Pigx	0	0	0	191	3.183333	13.0594	22.61558	Stalled	chr16:32084501-32101813	15.313
Osgepl1	0	0	0	106	1.766667	4.6777	20.45112	Stalled	chr1:53368506-53380908	10.403
4921530L21Rik	0	0	0	1	0.016667	0.044347	0	Unclassified	chr14:96278484-96281994	1.511
Ush1c	0	0	0	75	1.25	0.012545	1.117393	Unclassified	chr7:53450720-53495860	43.141
Ppil1	0	0	0	735	12.25	89.4416	5.165233	Unclassified	chr17:29387779-29402916	13.138
Nexn	0	0	0	463	7.716667	0.06502	0.057907	Unclassified	chr3:151899949-151931284	29.336
2010011I20Rik	0	0	0	185	3.083333	2.568	2.565744	Elongating	chr2:172169076-172181249	10.174
Dock5	0	0	0	219	3.65	0.176093	3.25366	Unclassified	chr14:68369984-68553629	181.646
Rad51ap1	0	0	0	600	10	10.8937	17.29972	Unclassified	chr6:126873436-126891573	16.138
Pld5	0	0	0	207	3.45	0.061013	1.817494	Unclassified	chr1:177892436-178207443	313.008
Gm7334	0	0	0	436	7.266667	0	14.10337	Unclassified	chr16:78360107-78379002	16.896
Hsd17b10	0	0	0	100	1.666667	29.131	8.406104	Unclassified	chrX:148434438-148438985	2.548
Hal	0	0	0	50	0.833333	0.055764	1.587419	Unclassified	chr10:92949512-92979488	27.977
4930529M08Rik	0	0	0	121	2.016667	0.131365	37.21159	Stalled	chr2:145758519-145789962	29.444
Cyp2t4	0	0	0	323	5.383333	0.356009	0.084832	Unclassified	chr7:27936732-27943583	4.852
Ttc35	0	0	0	212	3.533333	9.45259	33.23379	Stalled	chr15:43306774-43359323	50.55
Cknj13	0	0	0	36	0.6	0	1.184056	Unclassified	chr1:89282858-89293304	8.447
4933434E20Rik	0	0	0	489	8.15	14.4634	21.92658	Unclassified	chr3:89854738-89866369	9.632
Fate1	0	0	0	6	0.1	0	0	Unclassified	chrX:69216324-69234385	16.062
Slc26a6	0	0	0	291	4.85	3.86932	105.5162	Stalled	chr9:108754373-108815380	59.008
Olfr807	0	0	0	0	0	0	0	Unclassified	chr10:129191568-129194504	0.937
Olfr808	0	0	0	1	0.016667	0	0	Unclassified	chr10:129202553-129205492	0.94
Olfr796	0	0	0	2	0.033333	0	1	Unclassified	chr10:129044602-129047535	0.934
Olfr791	0	0	0	1	0.016667	0	1	Unclassified	chr10:128961284-128964223	0.94
Nin	0	0	0	980	16.33333	6.28216	22.40467	Unclassified	chr12:71112421-71214912	100.492
Olfr167	0	0	0	1	0.016667	0	0	Unclassified	chr16:19514788-19517727	0.94
Olfr1417	0	0	0	1	0.016667	0.087731	1	Unclassified	chr19:11902566-11905514	0.949
Nkx2-3	0	0	0	18	0.3	1.17726	2.346476	Unclassified	chr19:43684814-43690382	3.569
Stoml3	0	0	0	27	0.45	0	0.853348	Unclassified	chr3:53290714-53311574	18.861
Ndufb6	0	0	0	292	4.866667	74.0203	25.83912	Stalled	chr4:40217695-40228401	8.707
Cdx1	0	0	0	32	0.533333	0.095058	0.352583	Unclassified	chr18:61178516-61197853	17.338
Cdx2	0	0	0	16	0.266667	0.197174	2.00397	Unclassified	chr5:148112475-148120825	6.351
Cdx4	0	0	0	4	0.066667	0.056247	0.722941	Unclassified	chrX:100514736-100525563	8.828
Tram1	0	0	0	1247	20.78333	18.2366	6.924628	Unclassified	chr1:13554782-13581945	25.164
Stfa2l1	0	0	0	1	0.016667	0	0	Unclassified	chr16:36154896-36162034	5.139
Fbxo45	0	0	0	445	7.416667	5.99225	23.42143	Unclassified	chr16:32230197-32249111	16.915
Sprn	0	0	0	28	0.466667	0.077158	0.48464	Unclassified	chr7:147336526-147342558	4.033
Snrnp48	0	0	0	524	8.733333	10.8801	14.54118	Unclassified	chr13:38294807-38319532	22.726
Rnl3	0	0	0	395	6.583333	3.61714	81.19192	Stalled	chr19:33212236-33468785	254.55
Cyp3a16	0	0	0	13	0.216667	0.025272	0	Unclassified	chr5:146197177-146232592	33.416
Tgm6	0	0	0	38	0.633333	0.05808	1.404804	Unclassified	chr2:129947020-129979961	30.942
Rab39b	0	0	0	27	0.45	0.903471	12.63623	Stalled	chrX:72817396-72825543	6.148
Col1a1	0	0	0	37	0.616667	0.122686	0.613096	Unclassified	chr11:94795583-94813170	15.588
Krt6b	0	0	0	4	0.066667	0.024082	0.620349	Unclassified	chr15:101506453-101512720	4.268
Col9a3	0	0	0	167	2.783333	0.450203	6.588648	Unclassified	chr2:180330926-180356890	23.965
Comt1	0	0	0	526	8.766667	13.0925	10.35926	Unclassified	chr16:18406974-18428809	19.836
Copa	0	0	0	710	11.83333	33.8247	21.04158	Unclassified	chr1:174010659-174052463	39.805
Comp	0	0	0	58	0.966667	0.559988	0.126344	Unclassified	chr8:72895446-72905965	8.52
Slc6a17	0	0	0	73	1.216667	0.062985	1.684555	Unclassified	chr3:107270465-107322936	50.472
Spopl	0	0	0	394	6.566667	2.27852	28.68947	Stalled	chr2:23365573-23429624	62.052
Slc7a2	0	0	0	66	1.1	0.220222	0.972702	Unclassified	chr8:41945720-42007424	59.705
Klhl38	0	0	0	14	0.233333	0.011588	0.417419	Unclassified	chr15:58146127-58157724	9.598
H2-M1	0	0	0	1	0.016667	0	0	Unclassified	chr17:36806952-36811142	2.191
H2-M11	0	0	0	2	0.033333	0	0.541074	Unclassified	chr17:36682019-36686197	2.179
Rad51	0	0	0	531	8.85	15.1994	24.2777	Unclassified	chr2:118936552-118961806	23.255
H2-M10.4	0	0	0	7	0.116667	0	2.692663	Unclassified	chr17:36597108-36601274	2.167
Psmg2	0	0	0	568	9.466667	16.2255	25.82884	Unclassified	chr18:67799252-67813816	12.565
Grin3a	0	0	0	162	2.7	0.034453	1.597617	Unclassified	chr4:49678097-49859953	179.857
Pyy	0	0	0	4	0.066667	0.180149	2	Unclassified	chr11:101967990-101971090	1.101
Nags	0	0	0	11	0.183333	0.439376	0.650321	Unclassified	chr11:102004900-102010790	3.891
Asb16	0	0	0	26	0.433333	0.338758	0.583569	Unclassified	chr11:102128136-102139375	9.24
BC030867	0	0	0	333	5.55	7.98619	6.624874	Unclassified	chr11:102108195-102126497	16.303
Liph	0	0	0	423	7.05	25.3921	5.980175	Unclassified	chr10:119662115-119669126	5.012
Atxn713	0	0	0	905	15.08333	19.5212	3.461876	Unclassified	chr11:102150613-102159943	7.331
Trappc2	0	0	0	284	4.733333	0.574521	40.16349	Stalled	chrX:162876756-162890475	11.72
Zdhhc12	0	0	0	412	6.866667	12.407	7.402426	Unclassified	chr2:29946463-29951155	2.693
Mrp135	0	0	0	263	4.383333	7.15494	15.71215	Unclassified	chr6:71762991-71775778	10.788
Serp1b1a	0	0	0	47	0.783333	1.35847	6.871563	Unclassified	chr13:32933960-32945054	9.095
Dcst1	0	0	0	62	1.033333	0.958545	0.608904	Unclassified	chr3:89154156-89171161	15.006
Ywhae	0	0	0	1783	29.71667	167.898	10.46677	Unclassified	chr11:75544388-75579341	32.954
Slc23a3	0	0	0	52	0.866667	0.199282	7.248521	Unclassified	chr1:75122115-75132464	8.35
Ywhah	0	0	0	511	8.516667	67.4556	18.00451	Unclassified	chr5:33359464-33370615	9.152
A1cf	0	0	0	80	1.333333	0.033481	0.502039	Unclassified	chr19:31941250-32023896	80.647
Pdzd4	0	0	0	251	4.183333	1.09804	1.741979	Unclassified	chrX:71038695-71072308	31.614

Pnma3	0	0	0	2	0.033333	0.013152	0	Unclassified	chrX:70308125-70313530	3.406
Krt2	0	0	0	12	0.2	0.088287	0	Unclassified	chr15:101641119-101650600	7.482
D4Bwg0951e	0	0	0	23	0.383333	0.165746	2.041794	Unclassified	chr4:80554589-80600205	43.617
Rhov	0	0	0	11	0.183333	1.0762	3.049587	Unclassified	chr2:119094938-119098962	2.025
Yap1	0	0	0	76	1.266667	0.165151	3.055372	Unclassified	chr9:7932002-8006596	72.595
Zbtb8a	0	0	0	151	2.516667	2.11545	4.485882	Unclassified	chr4:129030875-129057272	24.398
Rufy3	0	0	0	193	3.216667	1.07992	0.948483	Unclassified	chr5:89010598-89071721	59.124
Teddm1	0	0	0	6	0.1	0.049784	2	Unclassified	chr1:155736775-155740190	1.416
Tmem47	0	0	0	5	0.083333	0.050236	1.858322	Unclassified	chrX:78313982-78343214	27.233
Dennd2a	0	0	0	173	2.883333	0.402881	0.725322	Unclassified	chr6:39412376-39509833	95.458
5830403L16Rik	0	0	0	1	0.016667	0.085236	0	Unclassified	chr1:155696671-155700325	1.655
Pax2	0	0	0	103	1.716667	0.153388	0.884049	Unclassified	chr19:44829883-44910517	78.635
Gpr139	0	0	0	37	0.616667	0	0	Unclassified	chr7:126287836-126329888	40.053
Cxcl10	0	0	0	81	1.35	1.32624	4.072626	Unclassified	chr5:92775666-92779880	2.215
Cpne7	0	0	0	45	0.75	0.324923	1.377748	Unclassified	chr8:125639273-125659085	17.813
Eif2c4	0	0	0	95	1.583333	0.673743	8.668503	Unclassified	chr4:126166788-126212702	43.915
Gm11818	0	0	0	27	0.45	0.236528	0.738995	Unclassified	chr4:12832004-12908618	74.615
Defb36	0	0	0	8	0.133333	0	0.512365	Unclassified	chr2:152428108-152438462	8.355
Gm136	0	0	0	10	0.166667	0.029508	0.589175	Unclassified	chr4:34691036-34705508	12.473
Zcchc6	0	0	0	909	15.15	7.06725	22.16868	Unclassified	chr13:59873239-59926508	51.27
Gm52	0	0	0	4	0.066667	0.179733	0.598949	Unclassified	chr5:135034109-135037963	1.855
AI182371	0	0	0	8	0.133333	0	1.51494	Unclassified	chr2:34939565-34958180	16.616
1700013F07Rik	0	0	0	13	0.216667	0.411335	2.018985	Unclassified	chr3:108338501-108347615	7.115
Egf	0	0	0	358	5.966667	0.840292	0.534527	Unclassified	chr3:129380492-129460240	77.749
Cdk3	0	0	0	66	1.1	0.296383	4.374673	Unclassified	chr11:116075315-116081601	4.287
Efnb3	0	0	0	97	1.616667	0.502112	7.861792	Unclassified	chr11:69367594-69375739	6.146
Efnb2	0	0	0	253	4.216667	0.225442	21.83469	Stalled	chr8:8617438-8662773	43.336
Efnb1	0	0	0	71	1.183333	1.88014	28.33638	Stalled	chrX:96329468-96344330	12.863
Efna5	0	0	0	270	4.5	0.156884	3.633368	Unclassified	chr17:62952305-63232666	278.362
Mpped2	0	0	0	130	2.166667	0.101105	0.576023	Unclassified	chr2:106531615-106708517	174.903
Gpkow	0	0	0	206	3.433333	7.69639	9.752766	Unclassified	chrX:7272259-7287385	13.127
5730590G19Rik	0	0	0	777	12.95	6.43413	10.88329	Unclassified	chr7:86803081-86843031	37.951
Egfr	0	0	0	170	2.833333	0.256992	1.512736	Unclassified	chr11:16650205-16813910	161.706
Cd80	0	0	0	430	7.166667	4.80507	1.592147	Elongating	chr16:38457012-38487014	28.003
Catsper4	0	0	0	26	0.433333	0.016998	0.770612	Unclassified	chr4:133767882-133785298	15.417
Cacng3	0	0	0	130	2.166667	0.050491	0.876043	Unclassified	chr7:129813257-129912905	97.649
Slc6a5	0	0	0	82	1.366667	0.085476	0.763828	Unclassified	chr7:57163668-57214863	49.196
Foxi2	0	0	0	9	0.15	0.069251	0.857143	Unclassified	chr7:142600049-142605298	3.25
Olfr1022	0	0	0	0	0	0.054077	0	Unclassified	chr2:85706750-85709696	0.947
Gnmt	0	0	0	57	0.95	0.39706	2.09319	Unclassified	chr17:46862612-46868114	3.503
Olfr452	0	0	0	2	0.033333	0.080574	0	Unclassified	chr6:42738039-42740993	0.955
Olfr1264	0	0	0	1	0.016667	0	1	Unclassified	chr2:89861294-89864221	0.928
Olfr1178	0	0	0	1	0.016667	0	0	Unclassified	chr2:88229405-88232377	0.973
Olfr538	0	0	0	1	0.016667	0.023381	1	Unclassified	chr7:147758053-147760986	0.934
Hgf	0	0	0	37	0.616667	0.032564	0	Unclassified	chr5:16057367-16125257	65.891
Gnrh1	0	0	0	28	0.466667	1.25217	0.476372	Unclassified	chr14:68361285-68367493	4.209
Slc40a1	0	0	0	12	0.2	0.261635	0.623011	Unclassified	chr1:45964914-45984439	17.526
Grin3b	0	0	0	393	6.55	0.318742	0.557511	Unclassified	chr10:79431468-79439935	6.468
Ppef2	0	0	0	42	0.7	0.090176	1.594442	Unclassified	chr5:92655999-92684185	26.187
Gnrhr	0	0	0	15	0.25	0.031855	1.067231	Unclassified	chr5:86611022-86628895	15.874
Gm11569	0	0	0	1	0.016667	0.012133	1	Unclassified	chr11:99664861-99667760	0.9
Foxb2	0	0	0	8	0.133333	0.803664	0	Unclassified	chr19:16946805-16950320	1.516
Mif1	0	0	0	24	0.4	0.482335	1.741405	Unclassified	chr3:67176018-67203922	25.905
Pitpnb	0	0	0	1473	24.55	23.6468	18.93933	Unclassified	chr5:111757782-111817379	57.598
Fam60a	0	0	0	764	12.733333	2.36366	4.053022	Unclassified	chr6:148869580-148896954	25.375
Mitf	0	0	0	228	3.8	0.742956	7.52296	Unclassified	chr6:97755051-97971352	214.302
Pate4	0	0	0	6	0.1	0.088302	0.431431	Unclassified	chr9:35414677-35421470	4.794
Ptpn11	0	0	0	898	14.96667	14.5165	17.90561	Unclassified	chr5:121580541-121643406	60.866
Bhlha15	0	0	0	219	3.65	9.70847	3.250341	Unclassified	chr5:144949154-144955310	4.157
Dscam	0	0	0	507	8.45	0.034268	0.533555	Unclassified	chr16:96813686-97394342	578.657
Klk15	0	0	0	10	0.166667	0	0	Unclassified	chr7:51187140-51194960	5.821
Dsc1	0	0	0	21	0.35	0.02037	0	Unclassified	chr18:20243203-20275274	30.072
Dsc2	0	0	0	20	0.333333	0.014511	0.619763	Unclassified	chr18:20189298-20220006	28.709
Dsc3	0	0	0	19	0.316667	0.055566	0.715145	Unclassified	chr18:20119430-20162598	41.169
Ly6h	0	0	0	5	0.083333	0	0.324172	Unclassified	chr15:75395174-75399612	2.439
Pth1r	0	0	0	91	1.516667	0.325409	0.212821	Unclassified	chr9:110624588-110651649	25.062
Synpo	0	0	0	158	2.633333	0.928166	1.150866	Unclassified	chr18:60753643-60785959	30.317
Leprot	0	0	0	256	4.266667	9.69481	18.98309	Stalled	chr4:10131837-101331963	11.577
Tat	0	0	0	10	0.166667	0.027234	1.08771	Unclassified	chr8:112512356-112523701	9.346
Rdh8	0	0	0	11	0.183333	0	0.908669	Unclassified	chr9:20620947-20630607	7.661
Mapk7	0	0	0	265	4.416667	8.62647	6.914555	Unclassified	chr11:61302313-61309705	5.393
Pla2g7	0	0	0	53	0.883333	1.16097	4.539928	Unclassified	chr17:43703399-43749150	43.752
Tceb3	0	0	0	718	11.96667	21.3947	9.313951	Unclassified	chr4:135559284-135579564	18.281
Cacng6	0	0	0	29	0.483333	0.261892	1.263741	Unclassified	chr7:3423422-3435658	10.237
Cartpt	0	0	0	7	0.116667	0.168838	0.545661	Unclassified	chr13:100668438-100672638	2.201
Gpr20	0	0	0	34	0.566667	0.059861	1.883905	Unclassified	chr15:73525036-73539935	12.9
Sc4mol	0	0	0	726	12.1	39.3773	8.468049	Unclassified	chr8:67196941-67214375	15.435
Serpnb9f	0	0	0	1	0.016667	0.024868	0	Unclassified	chr13:33413945-33427235	11.291
Zfp707	0	0	0	219	3.65	15.2998	21.49094	Stalled	chr15:75797614-75806295	6.682
Serpina1a	0	0	0	3	0.05	0	0	Unclassified	chr12:105091668-105103829	10.162
Serpina1b	0	0	0	3	0.05	0.005549	0	Unclassified	chr12:104966365-104978399	10.035
Serpina1c	0	0	0	2	0.033333	0	0.900259	Unclassified	chr12:105133135-105145160	10.026
Serpina1d	0	0	0	4	0.066667	0.034753	0	Unclassified	chr12:105001796-105013843	10.048
Serpina1e	0	0	0	6	0.1	0.013174	0	Unclassified	chr12:105185141-105197107	9.967
Plk4	0	0	0	537	8.95	8.0157	14.92968	Unclassified	chr3:40601872-40620805	16.934
Serpnb9b	0	0	0	22	0.366667	0.152749	0.755677	Unclassified	chr13:33117282-33132427	13.146

Serpnb9c	0	0	0	4	0.066667	0.030588	3	Unclassified	chr13:33241143-33252220	9.078
Slc5a3	0	0	0	686	11.433333	15.5054	26.10294	Unclassified	chr16:92056566-92087718	29.153
1700125D06Rik	0	0	0	19	0.316667	0.436398	12	Unclassified	chr4:129166433-129169200	0.768
Nphp1	0	0	0	133	2.216667	1.41458	15.8154	Stalled	chr2:127566467-127616590	48.124
Efr3b	0	0	0	180	3	0.49527	6.458865	Unclassified	chr12:3962553-4040915	76.363
Cdkl2	0	0	0	85	1.416667	1.44627	23.30636	Stalled	chr5:92435100-92474044	36.945
Rhbdd2	0	0	0	289	4.816667	2.35021	14.50486	Unclassified	chr5:136106523-136122246	13.724
Otos	0	0	0	30	0.5	0.14564	2.056738	Unclassified	chr1:94540794-94547418	4.625
Olfr69	0	0	0	4	0.066667	0.033	0.768465	Unclassified	chr7:110915790-110922108	4.319
Muc4	0	0	0	71	1.183333	0.060162	0	Unclassified	chr16:32733971-32782476	46.506
Leprel1	0	0	0	122	2.033333	0.131128	2.210072	Unclassified	chr16:25960408-26107870	145.463
Krt8	0	0	0	13	0.216667	0.028368	1.697179	Unclassified	chr15:101827141-101836773	7.633
Dmbx1	0	0	0	47	0.783333	0.051048	0.746258	Unclassified	chr4:115587723-115614531	24.809
LOC16697	0	0	0	1	0.016667	0.029162	0	Unclassified	chr10:77167331-77169731	0.401
Ttyh2	0	0	0	272	4.533333	0.915673	14.87668	Stalled	chr11:114534781-114582298	45.518
Krtap12-1	0	0	0	3	0.05	0.082451	2	Unclassified	chr10:77181330-77184001	0.672
2210010C04Rik	0	0	0	5	0.083333	0.083767	0.585807	Unclassified	chr6:40980266-40987508	5.243
Krtap13	0	0	0	1	0.016667	0.077083	0	Unclassified	chr16:88750989-88753873	0.885
Chic2	0	0	0	509	8.483333	17.1252	20.79087	Unclassified	chr5:75402448-75442651	38.204
Tulp1	0	0	0	24	0.4	0.223215	1.160976	Unclassified	chr17:28488463-28504088	13.626
Olfr1100	0	0	0	0	0	0.05307	0	Unclassified	chr2:86817985-86820951	0.967
5730455P16Rik	0	0	0	316	5.266667	2.9531	18.89733	Unclassified	chr11:80173994-80193517	17.524
Sp8	0	0	0	12	0.2	0.142202	0.85705	Unclassified	chr12:120082801-120091049	6.249
B430306N03Rik	0	0	0	64	1.066667	0.312788	1.704379	Unclassified	chr17:48453486-48465836	10.351
Catsperg2	0	0	0	19	0.316667	0.043637	0	Unclassified	chr7:30482237-30514034	29.798
Kcnj8	0	0	0	13	0.216667	0.02343	0	Unclassified	chr6:142513458-142521876	6.419
Hs3st6	0	0	0	10	0.166667	0.737524	2.696649	Unclassified	chr17:24887947-24895629	5.683
Ciptm1l	0	134.7152	0	971	16.183333	43.6798	9.342488	Unclassified	chr13:73739748-73758053	16.306
1700054N08Rik	0	0	0	234	3.9	5.36464	1.418158	Unclassified	chr8:126364743-126386109	19.367
Gabra2	0	0	0	70	1.166667	0.048222	1.359737	Unclassified	chr5:71352295-71489088	134.794
Xcl1	0	0	0	6	0.1	0.051061	0.417249	Unclassified	chr1:166861778-166867641	3.864
Gtsf1l	0	0	0	22	0.366667	0.050922	0.323634	Unclassified	chr2:162912766-162917337	2.572
Myo3a	0	0	0	114	1.9	0.029383	1.469287	Unclassified	chr2:22160694-22473767	311.074
Frmf3	0	0	0	68	1.133333	0.036883	3.678287	Unclassified	chr4:73657506-73835832	176.327
C9	0	0	0	39	0.65	0.058025	0.584946	Unclassified	chr15:6393332-6448476	53.145
Cd300lg	0	0	0	16	0.266667	0.054584	0.967095	Unclassified	chr11:101900824-101916931	14.108
Utp15	0	0	0	588	9.8	7.26474	19.90866	Unclassified	chr13:99016799-99034947	16.149
4930503L19Rik	0	0	0	344	5.733333	6.72237	19.5612	Unclassified	chr18:70612793-70634134	19.342
Ankrd32	0	0	0	434	7.233333	2.70527	32.93202	Stalled	chr13:77182348-77276729	92.382
C5ar1	0	0	0	20	0.333333	0.250584	3.427052	Unclassified	chr7:16832091-16846600	12.51
Dnahc7b	0	0	0	100	1.666667	0.026963	0	Unclassified	chr1:46121582-46430395	306.814
C6	0	0	0	36	0.6	0.009022	0	Unclassified	chr15:4675209-4754045	76.837
Pclo	0	0	0	154	2.566667	0.047643	2.095556	Unclassified	chr5:14512917-14863459	348.543
Tas2r108	0	0	0	3	0.05	0	3	Unclassified	chr6:40441590-40444484	0.895
Kcnk9	0	0	0	44	0.733333	0.074205	0.453268	Unclassified	chr15:72342548-72378709	34.162
Fbln7	0	0	0	48	0.8	0.076010	0.822083	Unclassified	chr2:128687667-128722770	33.104
2210415F13Rik	0	0	0	13	0.216667	0.086016	1.53737	Unclassified	chr11:58190533-58204043	11.511
17000200O3Rik	0	0	0	689	11.483333	4.95715	31.40823	Unclassified	chr12:87580827-87632318	49.492
Psma5	0	0	0	614	10.233333	23.2034	16.05304	Unclassified	chr3:108057843-108082870	23.028
Pax4	0	0	0	7	0.116667	0.039015	0	Unclassified	chr6:28392334-28401340	7.007
Ccdc27	0	0	0	37	0.616667	0.055349	0.313001	Unclassified	chr4:153400752-153418786	16.035
H2-M2	0	0	0	2	0.033333	0.255783	1	Unclassified	chr17:37617795-37622474	2.68
H2-M9	0	0	0	3	0.05	0.062276	1	Unclassified	chr17:36777369-36781589	2.221
Pola1	0	0	0	1329	22.15	4.77982	31.04568	Stalled	chrX:90550105-90879494	327.39
Brd1	0	0	0	1020	17	11.6571	8.564923	Unclassified	chr15:88517464-88566649	47.186
II7	0	0	0	34	0.566667	1.26811	4.93965	Unclassified	chr3:7572076-7615427	41.352
Rfx8	0	0	0	100	1.666667	0	0.716337	Unclassified	chr1:39722147-39779834	55.688
Asap2	0	0	0	650	10.833333	0.899566	10.029	Stalled	chr12:21115616-21276032	158.417
Zcchc16	0	0	0	91	1.516667	0.021172	0.830933	Unclassified	chrX:141121449-141556951	433.503
Cspp1	0	0	0	1057	17.61667	3.46399	22.58858	Unclassified	chr1:10026298-10126849	98.552
Sycp2	0	0	0	38	0.633333	0.018029	1.993114	Unclassified	chr2:178080000-178144363	62.364
Gm12824	0	0	0	316	5.266667	0.168508	3.315523	Unclassified	chr4:114077328-114287703	208.376
Olfr402	0	0	0	1	0.016667	0	1	Unclassified	chr11:73966657-73969605	0.949
Trappc6a	0	0	0	475	7.916667	54.3771	12.18569	Unclassified	chr7:20092077-20101494	7.418
Cog6	0	0	0	282	4.7	6.03886	19.89696	Stalled	chr3:52786044-52823145	35.102
Ano2	0	0	0	311	5.183333	0.044078	0	Unclassified	chr6:125638436-125990144	349.709
Gatm	0	0	0	108	1.8	9.36513	22.15207	Stalled	chr2:122420208-122439013	16.806
Slc39a8	0	0	0	483	8.05	3.20663	21.89512	Stalled	chr3:135486454-135551534	63.081
Rps10	0	0	0	1197	19.95	312.75	3.726723	Unclassified	chr17:27767373-27774187	4.815
Gpt2	0	0	0	154	2.566667	2.84146	9.151458	Unclassified	chr8:88014515-88051457	34.943
Edem2	0	0	0	516	8.6	29.3037	18.02585	Unclassified	chr2:155527408-155557211	27.804
Ccdc88a	0	0	0	262	4.366667	1.3005	49.59064	Stalled	chr11:29271774-29410811	137.038
Zswim1	0	0	0	284	4.733333	6.29046	7.809148	Unclassified	chr2:164646185-164652367	4.183
Scand3	0	0	0	14	0.233333	8.54218	7.753061	Unclassified	chr5:130369592-130379492	7.901
Rbpm2	0	0	0	47	0.783333	0.566523	1.223801	Unclassified	chr9:65476388-65508325	29.938
Dnmbp	0	0	0	191	3.183333	0.784722	1.550612	Unclassified	chr19:43922456-43988882	64.427
Fhl1	0	0	0	32	0.533333	0.104689	0	Unclassified	chrX:53982963-54046523	61.561
Hp1bp3	0	0	0	971	16.183333	21.984	10.57957	Unclassified	chr4:137770541-137799085	26.545
Lypd2	0	0	0	5	0.083333	0	3	Unclassified	chr15:74562681-74566743	2.063
1110020G09Rik	0	0	0	414	6.9	4.04902	20.35685	Unclassified	chr15:8999008-9040244	39.237
Stk39	0	0	0	772	12.86667	2.01643	3.871125	Unclassified	chr2:68048503-68312038	261.536
C030046I01Rik	0	0	0	207	3.45	18.8069	8.795907	Unclassified	chr10:79372797-79381675	6.879
1700019L03Rik	0	0	0	62	1.033333	0.117985	0.435975	Unclassified	chr2:32632932-32641925	6.994
Rgr	0	0	0	14	0.233333	0.015451	0.932194	Unclassified	chr14:37850675-37864150	11.476
Ly9	0	0	0	294	4.9	29.3549	5.607051	Unclassified	chr1:173518743-173539491	18.749
Sepsecs	0	0	0	315	5.25	4.65919	16.71575	Unclassified	chr5:53034645-53062940	26.296

Oifr1312	0	0	0	0	0	0	0	0	Unclassified	chr2:111882233-111885187	0.955
Hspa12b	0	0	0	53	0.883333	0.195968	0.252584	0	Unclassified	chr2:130951147-130971719	18.573
Gm1661	0	0	0	75	1.25	0.21628	4.851999	0	Unclassified	chr4:116887794-116926522	36.729
Akt3	0	0	0	612	10.2	1.57779	0.812042	0	Unclassified	chr1:178952245-179180898	226.654
Zfp69	0	0	0	326	5.433333	2.68536	53.26747	0	Stalled	chr4:120602743-120626306	21.564
Pgbd5	0	0	0	86	1.433333	0.122536	1.801098	0	Unclassified	chr8:126892948-126959836	64.889
Zdhhc13	0	0	0	402	6.7	3.92394	26.60803	0	Unclassified	chr7:56042372-56082807	38.436
Kng2	0	0	0	23	0.383333	0.078608	0	0	Unclassified	chr16:22985924-23031174	43.251
Acsm2	0	0	0	16	0.266667	0.015881	0	0	Unclassified	chr7:126703224-126740105	34.882
Oifr44	0	0	0	5	0.083333	0.029903	1.629149	0	Unclassified	chr9:39291788-39303573	9.786
Ftl2	0	0	0	1	0.016667	38.5812	0	0	Unclassified	chr4:125179288-125182245	0.958
Oifr263-ps1	0	0	0	1	0.016667	0.013402	1	0	Unclassified	chr13:21222645-21225599	0.955
Oifr48	0	0	0	2	0.033333	0	1	0	Unclassified	chr2:89684222-89687128	0.907
Lins2	0	0	0	34	0.566667	1.72617	0.939636	0	Unclassified	chr7:738590989-73859542	6.554
Oifr46	0	0	0	0	0	0.002754	0	0	Unclassified	chr7:147794066-147797023	0.958
Adam23	0	0	0	108	1.8	0.084723	1.769779	0	Unclassified	chr1:63490477-63643089	150.613
Oifr5	0	0	0	2	0.033333	0	0	0	Unclassified	chr7:6432926-6435865	0.94
Oifr49	0	0	0	6	0.1	0	3	0	Unclassified	chr14:54901570-54904600	1.031
Gemin7	0	0	0	475	7.916667	42.659	9.077404	0	Unclassified	chr7:20150297-20160692	8.396
Rab42	0	0	0	29	0.483333	0.976482	24	0	Unclassified	chr4:131858108-131861271	1.164
Gm7197	0	0	0	0	0	0	0	0	Unclassified	chrX:83643544-83646583	1.04
Etl4	0	0	0	345	5.75	0.115836	0	0	Unclassified	chr2:20209539-20732162	520.624
Ccdc14	0	0	0	265	4.416667	1.85009	14.69061	0	Stalled	chr16:34688701-34725280	34.58
Ncoa1	0	0	0	1010	16.833333	3.4535	27.03717	0	Stalled	chr12:4247362-4486060	236.699
Prss37	0	0	0	6	0.1	0.097402	2.359795	0	Unclassified	chr6:40464822-40471507	4.686
Gm4922	0	0	0	6	0.1	0.032653	0	0	Unclassified	chr10:18499532-18508599	7.068
Oifr706	0	0	0	3	0.05	0.026953	0	0	Unclassified	chr7:114029378-114032329	0.952
Oifr521	0	0	0	1	0.016667	0.106265	0	0	Unclassified	chr7:106913673-106916637	0.965
Zkscan17	0	0	0	514	8.566667	5.95044	4.923902	0	Unclassified	chr11:59299022-59322142	21.121
A930005I04Rik	0	0	0	103	1.716667	0.344027	1.155521	0	Unclassified	chr5:35256563-35266488	7.926
Sdha	0	0	0	560	9.333333	47.2142	41.67701	0	Unclassified	chr13:74459702-74489688	27.987
Oifr93	0	0	0	2	0.033333	0.009615	2	0	Unclassified	chr17:37287976-37290915	0.94
Tmc3	0	0	0	70	1.166667	0.109871	1.456157	0	Unclassified	chr7:90731440-90772219	38.78
Kiss1r	0	0	0	153	2.55	2.6837	19.53496	0	Stalled	chr10:79377715-79385015	5.301
Cygb	0	0	0	29	0.483333	0.896055	1.113997	0	Unclassified	chr11:116506908-116517627	8.72
Ercc2	0	0	0	444	7.4	14.7057	3.354161	0	Unclassified	chr7:19965387-19981041	13.655
Spast	0	0	0	484	8.066667	3.88598	27.39044	0	Unclassified	chr17:74736326-74790453	52.128
Nlrp2	0	0	0	29	0.483333	0.022591	0.647754	0	Unclassified	chr7:5250148-5304637	52.49
Erf	0	0	0	296	4.933333	5.81263	5.847429	0	Unclassified	chr7:26027579-26037777	8.199
Oifr574	0	0	0	1	0.016667	0	0	0	Unclassified	chr7:110094980-110098021	1.042
2610020H08Rik	0	0	0	328	5.466667	6.58709	33.00103	0	Stalled	chr7:126935643-126992455	54.813
Trnau1ap	0	0	0	906	15.1	14.5954	8.125446	0	Unclassified	chr4:131867677-131887453	17.777
Lims2	0	0	0	48	0.8	0.037963	0.367213	0	Unclassified	chr18:32089160-32118273	27.114
Stk38	0	0	0	587	9.783333	16.8459	21.99266	0	Unclassified	chr17:29107829-29146882	37.054
Ankrd49	0	0	0	139	2.316667	5.31733	0.655138	0	Unclassified	chr9:14584641-14589408	2.768
Oxgr1	0	0	0	17	0.283333	0.402915	1.185933	0	Unclassified	chr14:120418806-120443657	22.852
Fbxl5	0	0	0	594	9.9	6.43223	33.87352	0	Unclassified	chr5:44135856-44175388	37.533
BC026782	0	0	0	7	0.116667	0.026797	0	0	Unclassified	chr1:141706869-141757276	48.408
Tmem86a	0	0	0	106	1.766667	0.74422	18.44907	0	Stalled	chr7:54304009-54310146	4.138
Nif311	0	0	0	213	3.55	4.05768	1.511188	0	Elongating	chr1:58502476-58519120	14.645
Ppa1	0	0	0	814	13.56667	38.3636	21.42068	0	Unclassified	chr10:61109368-61136913	25.546
Fam45a	0	0	0	295	4.916667	3.01425	26.80051	0	Stalled	chr19:60885472-60912130	24.659
Ccdc80	0	0	0	36	0.6	0.172149	0.499036	0	Unclassified	chr16:45092165-45128037	33.873
Rragb	0	0	0	98	1.633333	3.47874	22.501	0	Stalled	chrX:149572500-149606485	31.986
Klf8	0	0	0	133	2.216667	0.287475	9.851109	0	Unclassified	chrX:149670587-149830677	158.091
Unc13c	0	0	0	247	4.116667	0.0349	0	0	Unclassified	chr9:73327230-73783374	454.145
Cd51	0	0	0	40	0.666667	0.251671	0.516792	0	Unclassified	chr3:87159802-87174996	13.195
Lyzl1	0	0	0	18	0.3	0.090468	0.981086	0	Unclassified	chr18:4163829-4182234	16.406
Tmem220	0	0	0	91	1.516667	0.737159	10.29323	0	Stalled	chr11:66836655-66848292	9.638
Fam109b	0	0	0	30	0.5	0.183966	0.399465	0	Unclassified	chr15:82169608-82176140	4.533
0610009D07Rik	0	0	0	447	7.45	23.1932	17.50824	0	Unclassified	chr12:4822413-4834465	10.053
Sdhc	0	0	0	314	5.233333	34.5604	23.99053	0	Stalled	chr1:173059288-173082734	21.447
Txlnb	0	0	0	177	2.95	0.523092	18.23371	0	Stalled	chr10:17514024-17565469	49.446
Nanos2	0	0	0	5	0.083333	0.089064	2	0	Unclassified	chr7:19570872-19574311	1.44
6030446N20Rik	0	0	0	684	11.4	1.74915	31.68386	0	Stalled	chr18:12140447-12281962	139.516
Ust	0	0	0	474	7.9	0.810577	19.59177	0	Stalled	chr10:7924550-8240623	314.074
Sic41a2	0	0	0	327	5.45	0.610637	10.2791	0	Stalled	chr10:82693883-82802562	106.68
Adamts8	0	0	0	43	0.716667	0.158695	1.028314	0	Unclassified	chr9:30748147-30770443	20.297
A230050P20Rik	0	0	0	202	3.366667	18.8832	4.582129	0	Unclassified	chr9:20671085-20678751	5.667
Grrp1	0	0	0	14	0.233333	0.595865	0.726678	0	Unclassified	chr4:133807024-133812021	2.998
Zcchc12	0	0	0	10	0.166667	0.067227	2.575342	0	Unclassified	chrX:33733898-33739153	3.256
Hnrp11	0	0	0	107	1.783333	2.16725	10.85212	0	Stalled	chr17:80428826-80463674	32.849
Alp2	0	0	0	400	6.666667	8.06996	59.85449	0	Stalled	chr9:30957141-31021400	62.26
A230046K03Rik	0	0	0	1043	17.38333	4.59225	31.04853	0	Unclassified	chr10:83004685-83059218	52.534
Tmprss8	0	0	0	8	0.133333	0.034922	1.034076	0	Unclassified	chr17:24109094-24114197	3.104
Hmgn1	0	0	0	449	7.483333	49.257	9.769726	0	Unclassified	chr16:96343194-96351332	6.139
Usp25	0	0	0	711	11.85	7.23659	19.31703	0	Unclassified	chr16:77012313-77117025	102.713
Abt1	0	0	0	249	4.15	5.83204	5.671837	0	Unclassified	chr13:23510229-23517735	5.507
EG635895	0	0	0	0	0	0.017616	0	0	Unclassified	chr17:14083379-14087685	2.307
Zfp354c	0	0	0	165	2.75	1.51507	10.16803	0	Stalled	chr11:50624586-50643233	16.648
Ms4a7	0	0	0	17	0.283333	0.468711	2.666278	0	Unclassified	chr19:11395897-11412606	14.71
Ankle2	0	0	0	734	12.23333	7.6673	24.17015	0	Unclassified	chr5:110658059-110685667	25.609
Mcc	0	0	0	378	6.3	0.105957	3.059927	0	Unclassified	chr18:44584713-44973836	387.124
4921501E09Rik	0	0	0	6	0.1	0.03108	2.372992	0	Unclassified	chr17:33201087-33207003	3.917
Ttf2	0	0	0	463	7.716667	6.22624	12.91963	0	Unclassified	chr3:100742783-100775586	30.804
Oifr985	0	0	0	1	0.016667	0.034453	0	0	Unclassified	chr9:39934508-39937624	1.117

Nr1h5	0	0	0	25	0.416667	0.07295	1.548717	Unclassified	chr3:102743580-102770056	24.477
Fvxo34	0	0	0	553	9.216667	4.6321	17.10327	Unclassified	chr14:48090235-48151637	59.403
Av19	0	0	0	541	9.016667	3.01062	37.09757	Unclassified	chr6:56662898-56711905	47.008
Ctsf	0	0	0	21	0.35	0.551408	1.140304	Unclassified	chr19:4853128-4860912	5.785
Ccdc36	0	0	0	43	0.716667	0.179312	0.735427	Unclassified	chr9:108305970-108332813	24.844
Kcnp3	0	0	0	92	1.533333	0.089617	1.253464	Unclassified	chr2:127282233-127349106	64.874
Socs5	0	0	0	201	3.35	0.834199	21.06833	Stalled	chr17:87505018-87536925	29.908
Pdk1	0	0	0	365	6.083333	8.0337	24.75627	Stalled	chr2:71709328-71741914	30.587
Bnc2	0	0	0	253	4.216667	0.035695	0	Unclassified	chr4:83918445-84322990	402.546
Lsm5	0	0	0	140	2.333333	6.95205	27.42722	Stalled	chr6:56651056-56656693	3.638
Stx12	0	0	0	494	8.233333	8.11394	39.02695	Unclassified	chr4:132409978-132442373	30.396
Ptpn20	0	0	0	23	0.383333	0.033181	1.432511	Unclassified	chr14:34400455-34453940	51.486
Mcrs1	0	0	0	425	7.083333	10.9627	6.643169	Unclassified	chr15:99073248-99084392	9.145
Ptpn2	0	0	0	1106	18.43333	11.159	38.54165	Unclassified	chr18:67825154-67886275	59.122
Fabp6	0	0	0	11	0.183333	0	0.386019	Unclassified	chr11:43409613-43417013	5.401
Zfp553	0	0	0	279	4.65	7.91628	8.66829	Unclassified	chr7:134374956-134381374	4.419
Lrig1	0	0	0	190	3.166667	0.229722	2.037586	Unclassified	chr6:94554522-94652139	95.618
Atp5sl	0	0	0	265	4.416667	14.5579	5.218425	Unclassified	chr7:26402511-26410569	6.059
Ptpn4	0	0	0	828	13.8	1.0675	41.30155	Stalled	chr1:121554669-121735648	178.98
1700029P11Rik	0	0	0	1	0.016667	0	1	Unclassified	chr15:81808974-81811993	1.02
Bckdhh	0	0	0	281	4.683333	1.49432	0	Unclassified	chr9:83840387-84017847	175.461
Olfr676	0	0	0	1	0.016667	0.026869	1	Unclassified	chr7:112181713-112184667	0.955
Zfp111	0	0	0	28	0.466667	0.129188	3.927355	Unclassified	chr7:24978233-24995168	14.936
Chd6	0	0	0	799	13.31667	2.9015	8.364741	Unclassified	chr2:160772713-160936792	162.08
Bcl2a1b	0	0	0	59	0.983333	58.3365	9.271012	Unclassified	chr9:89092110-89102676	8.567
Olfr568	0	0	0	1	0.016667	0	1	Unclassified	chr7:110023635-110026577	0.943
Olfr558	0	0	0	13	0.216667	0.013154	1.398548	Unclassified	chr7:109848836-109860568	9.733
Olfr561	0	0	0	1	0.016667	0.040687	0	Unclassified	chr7:109921039-109923984	0.946
Olfr585	0	0	0	1	0.016667	0.026753	1	Unclassified	chr7:110244256-110247213	0.958
Sic16a5	0	0	0	55	0.916667	0.199459	0.729354	Unclassified	chr11:115321786-115335712	11.927
Olfr572	0	0	0	0	0	0.040177	0	Unclassified	chr7:110074143-110077100	0.958
Olfr569	0	0	0	1	0.016667	0.029914	1	Unclassified	chr7:110035720-110038665	0.946
Stap1	0	0	0	235	3.916667	6.56517	2.99724	Elongating	chr5:86498852-86533018	32.167
Trhr	0	0	0	16	0.266667	0.006447	0	Unclassified	chr15:44025680-44067458	39.779
Fam48a	0	0	0	399	6.65	12.4229	15.5466	Unclassified	chr3:54495026-54520759	23.734
Tecta	0	0	0	82	1.366667	0.036683	0.464195	Unclassified	chr9:42137705-42210012	70.308
Gm766	0	0	0	21	0.35	0	0.482105	Unclassified	chr6:142734300-142754986	18.687
B020004J07Rik	0	0	0	4	0.066667	0.012979	0	Unclassified	chr4:101507573-101518627	9.055
Atg4b	0	0	0	498	8.3	6.65505	18.10437	Unclassified	chr1:95649609-95686106	34.498
E030002O03Rik	0	0	0	11	0.183333	0.062574	1.213704	Unclassified	chr7:111301526-111315330	11.805
2610034M16Rik	0	0	0	62	1.033333	0.030705	0	Unclassified	chr17:59018230-59132798	112.569
Muc15	0	0	0	4	0.066667	0	0	Unclassified	chr2:110559764-110578120	16.357
Olfr684	0	0	0	1	0.016667	0.040947	1	Unclassified	chr7:112305255-112308194	0.94
Btnl5	0	0	0	13	0.216667	0.092626	0	Unclassified	chr17:34624350-34636374	10.025
Col4a3	0	0	0	126	2.1	0.028592	1.039281	Unclassified	chr1:82581495-82718634	135.14
S100a14	0	0	0	5	0.083333	0	1	Unclassified	chr3:90328777-90332755	1.979
Pole	0	0	0	1269	21.15	9.63851	14.22318	Unclassified	chr5:110713337-110766472	51.136
Tcte2	0	0	0	69	1.15	0.063718	1.244621	Unclassified	chr17:13853442-13900401	44.96
Krtap9-3	0	0	0	1	0.016667	0	0	Unclassified	chr11:99458661-99461420	0.76
Tcte1	0	0	0	43	0.716667	0.133559	0.370494	Unclassified	chr17:45658382-45679626	19.245
Dynl1b	0	0	0	144	2.4	0	20.25321	Stalled	chr17:6427259-6435443	6.185
Nkx2-1	0	0	0	16	0.266667	0.178272	0.284232	Unclassified	chr12:57632925-57639895	4.971
Lman2l	0	0	0	160	2.666667	4.60117	13.1772	Stalled	chr1:36480030-36504084	22.055
Rgs12	0	0	0	397	6.616667	0.975263	8.954032	Unclassified	chr5:35290096-35376240	84.145
Olfr1126	0	0	0	0	0	0.039436	0	Unclassified	chr2:87295323-87298268	0.946
4930547N16Rik	0	0	0	521	8.683333	5.88305	67.81813	Stalled	chr10:87554142-87611686	55.545
Taf1d	0	0	0	953	15.88333	16.913	6.125908	Unclassified	chr9:15108657-15116548	5.892
4930550C14Rik	0	0	0	116	1.933333	0.041443	10.28901	Stalled	chr9:53211390-53240908	27.519
Col4a4	0	0	0	196	3.266667	0.049243	0.821127	Unclassified	chr1:82447297-82585424	136.128
Olfr1130	0	0	0	0	0	0.005579	0	Unclassified	chr2:87445546-87448491	0.946
Olfr545	0	0	0	5	0.083333	0.047088	2	Unclassified	chr7:109642336-109645287	0.952
Actc1	0	0	0	7	0.116667	0.222298	0.429875	Unclassified	chr2:113873024-113880547	5.524
Pck1	0	0	0	23	0.383333	0.269456	0.447071	Unclassified	chr2:172976573-172984754	6.182
Apol10b	0	0	0	16	0.266667	0.112498	2.496472	Unclassified	chr15:77414587-77428555	11.969
Olfr192	0	0	0	0	0	0.009761	0	Unclassified	chr16:59097891-59100816	0.926
Olfr118	0	0	0	0	0	0.041393	0	Unclassified	chr17:37806969-37809933	0.965
Actg2	0	0	0	32	0.533333	0.068224	0.887653	Unclassified	chr6:83462902-83488245	23.344
Smox	0	0	0	113	1.883333	3.27785	7.552108	Unclassified	chr2:131315678-131350908	33.231
Abi2	0	0	0	123	2.05	0.460856	9.033298	Unclassified	chr1:60464641-60538002	71.362
Hcrr2	0	0	0	47	0.783333	0.312654	0.692198	Unclassified	chr9:76073686-76173385	97.7
Gnb5	0	0	0	102	1.7	2.10812	1.021753	Unclassified	chr9:75157201-75193478	34.278
Gtf2e2	0	0	0	406	6.766667	9.39395	35.23465	Stalled	chr8:34840538-34887645	45.108
Mal	0	0	0	29	0.483333	0.073923	0.454226	Unclassified	chr2:127458961-127484431	23.471
Mak	0	0	0	77	1.283333	0.09395	2.644406	Unclassified	chr13:41120488-41177075	54.588
Cnndbp1	0	0	0	169	2.816667	14.5832	17.89092	Stalled	chr2:120832143-120842648	8.506
Mfap2	0	0	0	48	0.8	0.095024	0.383523	Unclassified	chr4:140564551-140571898	5.348
Man1a2	0	0	0	1342	22.36667	6.80025	48.497	Unclassified	chr3:100366126-100491396	123.271
Man2a1	0	0	0	1150	19.16667	8.89788	10.37198	Unclassified	chr17:64948988-65104450	153.463
Pex11c	0	0	0	214	3.566667	3.64229	8.302753	Unclassified	chr8:3458816-3469648	8.833
B230217C12Rik	0	0	0	109	1.816667	1.93964	2.285519	Unclassified	chr11:97700093-97704357	2.265
Pls1	0	0	0	95	1.583333	0.159554	2.536496	Unclassified	chr9:95653062-95747698	92.637
Vps36	0	0	0	395	6.583333	22.7598	17.6907	Unclassified	chr8:23301331-23329069	25.739
Heca	0	0	0	475	7.916667	9.41099	13.59134	Unclassified	chr10:17620271-17669873	47.603
Olfr371	0	0	0	0	0	0.054596	0	Unclassified	chr8:87752395-87755334	0.94
Fam169a	0	0	0	112	1.866667	0.126737	0	Unclassified	chr13:97835241-97899476	62.236
Olfm2	0	0	0	194	3.233333	0.184891	2.455333	Unclassified	chr9:20472429-20534658	60.23

Lipn	0	0	0	14	0.233333	0	1.2018	Unclassified	chr19:34139847-34159408	17.562
Clic6	0	0	0	59	0.983333	0.198597	0.876124	Unclassified	chr16:92496391-92541486	43.096
4933427D06Rik	0	0	0	24	0.4	0.092907	1.671711	Unclassified	chr6:89044108-89060031	13.924
8430410A17Rik	0	0	0	214	3.566667	5.02765	25.389	Stalled	chr6:87861969-87886607	22.639
Aox3	0	0	0	111	1.85	0.047032	0.44421	Unclassified	chr1:58167979-58257296	87.318
Gm9294	0	0	0	1	0.016667	27.5081	0	Unclassified	chr7:50208955-50211778	0.824
Bat2	0	0	0	938	15.633333	76.3954	0.848148	Unclassified	chr17:35286030-35301993	13.964
Defb18	0	0	0	0	0	0	0	Unclassified	chr1:18226553-18229524	0.972
Crbn	0	0	0	425	7.083333	3.45032	6.800294	Unclassified	chr6:106728238-106752068	21.831
Aplp1	0	0	0	21	0.35	0.486451	2.970063	Unclassified	chr7:31220000-31232580	10.581
Api5	0	0	0	553	9.216667	18.0786	15.87836	Unclassified	chr2:94251883-94280304	26.422
Apoa2	0	0	0	5	0.083333	1.30377	2	Unclassified	chr1:173153184-173156510	1.327
E330034G19Rik	0	0	0	7	0.116667	0.051499	0.722184	Unclassified	chr14:25110585-25129181	16.597
Gsc	0	0	0	9	0.15	0.316587	0.512025	Unclassified	chr12:105709418-105713446	2.029
Psmc6	0	0	0	399	6.65	19.1843	12.85945	Unclassified	chr14:45947498-45968746	19.249
Cdc14b	0	0	0	268	4.466667	0.854537	2.975658	Unclassified	chr13:64293852-64378296	82.445
Sh2d4b	0	0	0	105	1.75	0.197783	0.85457	Unclassified	chr14:41629156-41708254	77.099
Ucn3	0	0	0	8	0.133333	0.130247	0.378946	Unclassified	chr13:3939935-3946595	4.661
Mfsd7a	0	0	0	18	0.3	0.194187	1.034175	Unclassified	chr5:108870072-108879910	7.839
Shank2	0	0	0	349	5.816667	0.032512	0.417104	Unclassified	chr7:151359424-151608580	247.157
Mctp2	0	0	0	722	12.033333	0.911885	26.54858	Stalled	chr7:79222715-79453481	228.767
Irx5	0	0	0	13	0.216667	0.175992	1.536597	Unclassified	chr8:94879694-94885355	3.662
2210411K11Rik	0	0	0	399	6.65	9.32635	19.46655	Stalled	chr7:4736386-4743162	4.777
4932415M13Rik	0	0	0	0	0	0.01311	0	Unclassified	chr17:53861075-53865058	1.984
Cep76	0	0	0	545	9.083333	3.2269	51.74003	Unclassified	chr18:67777050-67802990	23.941
Dgkh	0	0	0	397	6.616667	0.662211	7.377618	Unclassified	chr14:78969415-79126896	155.482
Dennd1c	0	0	0	293	4.883333	11.4522	10.39705	Unclassified	chr17:57205477-57219933	12.457
Rasl12	0	0	0	26	0.433333	0.658338	1.641143	Unclassified	chr9:65244294-65260512	14.219
Ptgs2	0	0	0	23	0.383333	0.17925	6.015447	Unclassified	chr1:151945253-151955142	7.89
Kynu	0	0	0	642	10.7	11.1268	9.979066	Unclassified	chr2:43408848-43538235	127.388
Klhl30	0	0	0	31	0.516667	0.016975	0.276779	Unclassified	chr1:93245649-93258981	11.333
Gsdma	0	0	0	23	0.383333	0.137255	0	Unclassified	chr11:98523664-98539022	13.359
Psmc9	0	0	0	359	5.983333	10.3217	7.98166	Unclassified	chr5:123676198-123700134	21.937
Adamts2	0	0	0	239	3.983333	0.041111	0.917724	Unclassified	chr11:50413586-50617551	201.966
Brsk1	0	0	0	35	0.583333	0.184249	1.31124	Unclassified	chr7:4640529-4667598	25.07
Pde4a	0	0	0	317	5.283333	1.97837	2.474325	Elongating	chr9:20968157-21017692	47.536
Mcm9	0	0	0	1661	27.683333	2.85404	4.413192	Unclassified	chr10:53257129-53352245	93.117
Pde1a	0	0	0	152	2.533333	0.081418	1.995386	Unclassified	chr2:79674609-79971569	294.961
Abpe	0	0	0	3	0.05	0	0	Unclassified	chr7:32085787-32089996	2.21
Mrgprg	0	0	0	9	0.15	0.098533	0.940975	Unclassified	chr7:150949614-150954898	3.285
Armcx6	0	0	0	32	0.533333	1.44571	19.88537	Stalled	chrX:131282993-131287958	2.966
Tbccl	0	0	0	499	8.316667	3.92678	6.573408	Unclassified	chr9:42220399-42282309	59.911
Hba-x	0	0	0	2	0.033333	0.085728	0.339934	Unclassified	chr11:32174599-32178113	1.515
Gm906	0	0	0	0	0	0.013977	0	Unclassified	chr13:50340549-50347677	5.129
Cnot2	0	0	0	1269	21.15	15.0922	19.4642	Unclassified	chr10:115922216-116020567	96.352
2410129H14Rik	0	0	0	496	8.266667	5.40738	19.28622	Unclassified	chr14:99433762-99447355	11.594
Rap2c	0	0	0	288	4.8	6.22415	16.85175	Stalled	chrX:48357090-48373195	14.106
Xrcc6bp1	0	0	0	203	3.383333	6.48766	23.78731	Stalled	chr10:126305485-126340427	32.943
Klhdcc9	0	0	0	170	2.833333	2.91308	3.021219	Unclassified	chr1:173288579-173292929	2.351
E130306D19Rik	0	0	0	84	1.4	4.27936	2.816718	Elongating	chr4:43509017-43514532	3.516
Yipf6	0	0	0	306	5.1	3.09235	22.16532	Stalled	chrX:96131119-96144359	11.241
1600029D21Rik	0	0	0	42	0.7	0.339809	0.403703	Unclassified	chr9:50300629-50313744	11.116
Zdhhc15	0	0	0	66	1.1	0.195527	8.62874	Unclassified	chrX:101732310-101868403	134.094
Btnl1	0	0	0	95	1.583333	0.703425	3.515915	Unclassified	chr17:34512076-34522973	8.898
Gm5478	0	0	0	4	0.066667	0.0182	0	Unclassified	chr15:101473450-101479811	4.362
Prkcc	0	0	0	161	2.683333	2.29207	3.907529	Unclassified	chr7:3301657-3331005	27.349
Prkch	0	0	0	299	4.983333	0.535848	3.639531	Unclassified	chr12:74684027-74879171	193.145
2700081O15Rik	0	0	0	275	4.583333	6.45898	2.778335	Elongating	chr19:7490114-7500393	8.28
Olfr1377	0	0	0	0	0	0.044398	0	Unclassified	chr11:50796204-50799128	0.925
Olfr1378	0	0	0	2	0.033333	0.029787	0	Unclassified	chr11:50780521-50783469	0.949
Olfr1280	0	0	0	0	0	0	0	Unclassified	chr2:111153637-111156555	0.919
Olfr1336	0	0	0	0	0	0	0	Unclassified	chr7:6411221-6414166	0.946
Top1	0	0	0	1295	21.583333	29.5	28.72841	Unclassified	chr2:160469632-160548499	76.868
Olfr1348	0	0	0	2	0.033333	0.020425	2	Unclassified	chr7:6453996-6456935	0.94
Mamld1	0	0	0	55	0.916667	0.02069	0.665515	Unclassified	chrX:68301430-68407892	104.463
Tead4	0	0	0	97	1.616667	0.256467	1.31595	Unclassified	chr6:128177160-128252831	73.672
Cox6a1	0	0	0	328	5.466667	247.48	8.957659	Unclassified	chr5:115795662-115800964	3.303
Cox6a2	0	0	0	8	0.133333	2.81838	5	Unclassified	chr7:135348948-135351880	0.933
2200002K05Rik	0	0	0	59	0.983333	0.167618	1.320022	Unclassified	chr9:15041488-15063857	20.37
Cox6c	0	0	0	230	3.833333	83.0573	8.684876	Unclassified	chr15:35861730-35870001	6.272
Cox7a1	0	0	0	90	1.5	3.15156	3.421327	Unclassified	chr7:30967189-30971049	1.861
AW554918	0	0	0	648	10.8	0.659843	38.99989	Stalled	chr18:25325520-25625822	298.303
Cox7c	0	0	0	153	2.55	41.779	8.991642	Unclassified	chr13:86184402-86188400	1.999
Cox8b	0	0	0	109	1.816667	0.10592	0.990215	Unclassified	chr7:148084840-148088345	1.506
Atp6v0e2	0	0	0	12	0.2	0.174895	1.570162	Unclassified	chr6:48485567-48491797	4.231
1700029J11Rik	0	0	0	109	1.816667	0.296217	3.912331	Unclassified	chr2:172296053-172299816	1.764
Gltscr1	0	0	0	632	10.533333	15.7253	0.381659	Unclassified	chr7:16556610-16586844	28.235
Me2	0	0	0	814	13.56667	16.6721	31.87903	Unclassified	chr18:73929693-73977046	45.354
Defb23	0	0	0	3	0.05	0.127907	0	Unclassified	chr2:152284885-152292328	5.444
Sico1a5	0	0	0	49	0.816667	0.041437	0	Unclassified	chr6:142182749-142273470	88.722
Msi1	0	0	0	67	1.116667	0.256142	0.834806	Unclassified	chr5:115877693-115904211	24.519
Adcy10	0	0	0	111	1.85	0.022144	3.344782	Unclassified	chr1:167413313-167506904	91.592
Prrb1	0	0	0	1	0.016667	0	0	Unclassified	chr6:132156812-132162539	3.728
Lrriq4	0	0	0	26	0.433333	0.370476	1.057456	Unclassified	chr3:30541428-30571353	27.926
Serpinb3c	0	0	0	2	0.033333	0.013168	0	Unclassified	chr1:109167777-109176948	7.172
Lce1m	0	0	0	0	0	0.043842	0	Unclassified	chr3:92821728-92824982	1.255

Cdc27	0	0	0	837	13.95	5.73521	13.61535	Unclassified	chr11:104363842-104413934	48.093
Vta1	0	0	0	514	8.566667	20.5029	14.41291	Unclassified	chr10:14375138-14427295	50.158
Commd6	0	0	0	471	7.85	14.1966	12.22382	Unclassified	chr14:102032983-102041688	6.706
Cd302	0	0	0	171	2.85	0.774893	6.110866	Unclassified	chr2:60090049-60124475	32.427
Acyp1	0	0	0	236	3.933333	8.52389	16.69477	Stalled	chr12:86613347-86623385	8.039
Rnaseh2b	0	0	0	930	15.5	10.4222	21.88298	Unclassified	chr14:62948941-62991829	40.889
Vldlr	0	0	0	38	0.633333	0.193199	2.092844	Unclassified	chr19:27289509-27328721	37.213
Prpmp5	0	0	0	0	0	0.029945	0	Unclassified	chr6:132261607-132266761	3.155
Slitrk4	0	0	0	1	0.016667	0.019542	0	Unclassified	chrX:61522618-61532171	7.554
E330016A19Rik	0	0	0	32	0.533333	0.749666	4.874856	Unclassified	chr9:78278324-78292954	12.631
2700050L05Rik	0	0	0	718	11.96667	5.00159	27.44654	Unclassified	chr7:140827388-140864653	35.266
Vip	0	0	0	2	0.033333	0.016786	0	Unclassified	chr10:4698926-4709323	8.398
Smarca2	0	0	0	2234	37.23333	8.91824	10.91798	Unclassified	chr19:26677649-26852811	173.163
Ctsw	0	0	0	94	1.566667	0.332892	0.714512	Unclassified	chr19:5465239-5470498	3.26
Nox3	0	0	0	34	0.566667	0.03576	0	Unclassified	chr17:3635239-3698261	61.023
Yif1b	0	0	0	328	5.466667	23.665	11.74652	Unclassified	chr7:30021341-3003251	9.211
2610301B20Rik	0	0	0	247	4.116667	3.3247	20.0038	Stalled	chr4:10799644-10826570	24.927
Tm7sf4	0	0	0	14	0.233333	0.019292	0.51859	Unclassified	chr15:39575477-39592480	15.004
Pde1b	0	0	0	326	5.433333	5.3141	6.779084	Unclassified	chr15:103331728-103360483	26.756
Galnt12	0	0	0	197	3.283333	6.65541	21.1427	Stalled	chr4:47102824-47135914	31.091
Pde1c	0	0	0	156	2.6	0.14661	0.659918	Unclassified	chr6:56019797-56321628	299.832
Apol7a	0	0	0	9	0.15	0.016941	0	Unclassified	chr15:77218647-77231540	10.894
2310003C23Rik	0	0	0	112	1.866667	12.8472	0.909995	Unclassified	chr2:180445250-180453222	5.973
Olf1197	0	0	0	1	0.016667	0.036647	0	Unclassified	chr2:88568809-88571754	0.946
Car9	0	0	0	102	1.7	0.529743	0.285905	Unclassified	chr4:43517897-43526597	6.701
Pnma2	0	0	0	11	0.183333	0.059571	1.057556	Unclassified	chr14:67528044-67538898	8.855
Oxr1	0	0	0	396	6.6	5.48329	18.44726	Stalled	chr15:41618579-41692593	72.015
Cyp4f13	0	0	0	387	6.45	3.2863	8.912577	Unclassified	chr17:33061632-33086306	22.675
Dcaf17	0	0	0	633	10.55	6.31184	82.88432	Stalled	chr2:70891800-70926701	32.902
Snx16	0	0	0	149	2.483333	1.31294	22.602	Stalled	chr3:10417816-10442124	22.309
Tas2r110	0	0	0	0	0	0	0	Unclassified	chr6:132816025-132819027	1.003
AI987944	0	0	0	152	2.533333	1.22047	21.25836	Stalled	chr7:48629157-48650630	19.474
Atr	0	0	0	451	7.516667	1.91674	39.42209	Stalled	chr9:95756015-95852063	94.049
S100a9	0	0	0	2	0.033333	0.393944	0	Unclassified	chr3:90496554-90501613	3.06
Gm4976	0	0	0	23	0.383333	0.019429	0.55081	Unclassified	chr8:95544115-95574091	27.977
Cldn16	0	0	0	15	0.25	0.044579	1.177449	Unclassified	chr16:26461245-26482853	19.609
Atp6v0b	0	0	0	222	3.7	53.288	9.718865	Unclassified	chr4:117556934-117561934	3.001
Foxp2	0	0	0	249	4.15	0.131636	2.751004	Unclassified	chr6:14849348-15391977	540.63
Ccdc13	0	0	0	25	0.416667	0	0.777469	Unclassified	chr9:121726479-121742197	13.719
Atp12a	0	0	0	28	0.466667	0.11029	1.977355	Unclassified	chr14:56981904-57007388	23.485
Olf1930	0	0	0	0	0	0.048373	0	Unclassified	chr9:38735757-38738684	0.928
Olf1511	0	0	0	3	0.05	0.080226	1	Unclassified	chr14:53009489-53012446	0.958
Asphd1	0	0	0	90	1.5	0	1.246596	Elongating	chr7:134089521-134095095	3.575
Sic9a9	0	0	0	523	8.716667	3.23059	5.22225	Unclassified	chr9:94568327-95129867	559.541
2810007J24Rik	0	0	0	14	0.233333	0	0.743967	Unclassified	chr7:14996067-15033935	35.869
Olf1325	0	0	0	0	0	0.029355	0	Unclassified	chr11:58392365-58395328	0.964
Olf1117	0	0	0	2	0.033333	0	1	Unclassified	chr17:37796322-37799276	0.955
Sez6l2	0	0	0	94	1.566667	0.384224	2.302153	Unclassified	chr7:134092242-134113783	19.542
Olf11333	0	0	0	2	0.033333	0.009464	1	Unclassified	chr4:118502089-118505043	0.955
Olf1747	0	0	0	0	0	0	0	Unclassified	chr14:51300365-51303320	0.956
Olf1370	0	0	0	3	0.05	0	1	Unclassified	chr8:86062991-86066086	1.096
Dag1	0	0	0	387	6.45	4.10092	36.43915	Stalled	chr9:108108288-108168067	57.78
Kctd13	0	0	0	409	6.816667	11.6891	18.18467	Unclassified	chr7:134070392-134089123	16.732
Pou6f1	0	0	0	61	1.016667	2.45082	1.871988	Unclassified	chr15:100405748-100418796	11.049
Emb	0	0	0	596	9.933333	10.8398	9.041757	Unclassified	chr13:118007379-118063222	53.844
Olf1346	0	0	0	1	0.016667	0	0	Unclassified	chr2:36541523-36544453	0.931
Olf1218	0	0	0	2	0.033333	0.054771	1	Unclassified	chr2:88894645-88897581	0.937
Aatf	0	0	0	1117	18.61667	17.7688	27.0313	Unclassified	chr11:84236357-84329003	90.647
Pr12a1	0	0	0	2	0.033333	0	0.858417	Unclassified	chr13:27891523-27900585	7.063
Mettl4	0	0	0	379	6.316667	3.40279	59.40747	Stalled	chr17:95126419-95151232	22.814
Fgf21	0	0	0	23	0.383333	0.081202	0.322385	Unclassified	chr7:52869259-52872860	1.602
Apba2	0	0	0	242	4.033333	0.038615	1.026927	Unclassified	chr7:71644591-71899762	252.172
Apbb1	0	0	0	64	1.066667	0.909242	1.673788	Unclassified	chr7:112706997-112732049	23.053
Apbb2	0	0	0	809	13.48333	0.384909	10.77084	Stalled	chr5:66693126-67011910	316.785
Atxn2l	0	0	0	1591	26.51667	51.2959	8.027757	Unclassified	chr7:133635221-133648816	11.596
Ap4s1	0	0	0	766	12.76667	12.0426	21.26474	Unclassified	chr12:52789952-52839926	47.975
Fbxw20	0	0	0	14	0.233333	0.043269	0	Unclassified	chr9:109119945-109139238	17.294
St18	0	0	0	78	1.3	0.037168	1.267903	Unclassified	chr1:6718131-6851021	130.891
Gm12794	0	0	0	4	0.066667	0.01323	0	Unclassified	chr4:101611011-101615788	2.778
Tufm	0	0	0	221	3.683333	38.5729	4.762192	Unclassified	chr7:133628868-133634244	3.377
6030422M02Rik	0	0	0	533	8.883333	0.060241	1.119936	Elongating	chr1:9896718-9931035	32.318
Dub2a	0	0	0	0	0	0.044578	0	Unclassified	chr7:110398599-110403019	2.421
Nhs	0	0	0	118	1.966667	0.032975	0.735476	Unclassified	chrX:158274199-158599722	323.524
Impdh2	0	0	0	549	9.15	63.5979	4.324073	Unclassified	chr9:108460831-108467897	5.067
Insl5	0	0	0	5	0.083333	0.03742	0.723681	Unclassified	chr4:102690477-102701333	8.857
Apcdd1	0	0	0	40	0.666667	0.219787	3.379505	Unclassified	chr18:63079980-63112849	30.87
Ang	0	0	0	11	0.183333	0	0.385041	Unclassified	chr14:51713674-51721682	6.009
Zfyve9	0	0	0	96	1.6	0.230339	0	Unclassified	chr4:108311863-108398481	84.619
Slc9a3r2	0	0	0	34	0.566667	0.604946	1.318212	Unclassified	chr17:24776226-24789250	11.025
Fstl5	0	0	0	229	3.816667	0.029587	3.695261	Unclassified	chr3:75876519-76513927	635.409
Syn3	0	0	0	826	13.76667	0.30327	13.46558	Stalled	chr10:85511492-85963641	450.15
Podxl	0	0	0	152	2.533333	0.153825	1.622451	Unclassified	chr6:31469492-31515937	44.446
Nrk	0	0	0	18	0.3	0.054372	0	Unclassified	chrX:135446968-135543627	94.66
Klhdc10	0	0	0	259	4.316667	3.4716	22.77295	Stalled	chr6:30349908-30405174	53.267
Cab39l	0	0	0	763	12.71667	4.77217	87.41483	Stalled	chr14:60057817-60167740	107.924
Oog2	0	0	0	2	0.033333	0.01599	1	Unclassified	chr4:143778619-143786837	6.219

Uba5	0	0	0	372	6.2	12.6257	7.363058	Unclassified	chr9:103948917-103967451	16.535
Tspan17	0	0	0	32	0.533333	1.50563	4.272915	Unclassified	chr13:54888765-54898129	7.365
Camsap111	0	0	0	461	7.683333	2.9288	30.29659	Stalled	chr1:138164699-138244681	77.983
Smu1	0	0	0	496	8.266667	13.1601	9.762409	Unclassified	chr4:40682682-40706918	22.237
Gpn1	0	0	0	389	6.483333	10.6213	7.817697	Unclassified	chr5:31795133-31814000	16.868
Ppp4r4	0	0	0	66	1.1	0.125275	9.386796	Unclassified	chr12:104768774-104852042	81.269
Armc1	0	0	0	447	7.45	7.69218	25.25513	Unclassified	chr3:19032143-19065065	30.923
Morc2a	0	0	0	591	9.85	8.67205	33.71273	Unclassified	chr11:3547496-3590375	40.88
Mfn1	0	0	0	343	5.716667	4.91937	19.6221	Stalled	chr3:32426403-32478147	49.745
Gm14203	0	0	0	50	0.833333	0.044282	1.350279	Unclassified	chr2:158336531-158376362	37.832
Fxyd2	0	0	0	37	0.616667	0.343929	1.019645	Unclassified	chr9:45209220-45218361	7.142
Tmem165	0	0	0	752	12.53333	20.6763	13.90523	Unclassified	chr5:76610904-76638269	25.366
Mier1	0	0	0	1197	19.95	6.55382	14.61038	Unclassified	chr4:102785069-102838354	51.286
Tpbpa	0	0	0	4	0.066667	0	0.528857	Unclassified	chr13:61040052-61045296	3.245
Tpd5211	0	0	0	72	1.2	0.101155	3.782047	Unclassified	chr10:31052185-31167727	113.543
Acsm1	0	0	0	32	0.533333	0.012596	0.58494	Unclassified	chr7:126759341-126806028	44.688
Nlrp4b	0	0	0	17	0.283333	0.011744	0	Unclassified	chr7:11271141-11315507	42.367
Adcy2	0	0	0	271	4.516667	0.054784	0.583655	Unclassified	chr13:68758919-69140419	379.501
Tdrd6	0	0	0	27	0.45	0.0764	0.798833	Unclassified	chr17:43752283-43769248	14.966
Kcnn2	0	0	0	75	1.25	0.081433	2.588707	Unclassified	chr18:45717807-45845537	125.731
Kcnn3	0	0	0	197	3.283333	0.141338	0.436956	Unclassified	chr3:89322085-89476416	152.332
Zfp800	0	0	0	596	9.933333	2.81699	41.30159	Unclassified	chr6:28189930-28213601	21.672
Ppp1r3a	0	0	0	13	0.216667	0.0126	1.572434	Unclassified	chr6:14663821-14707274	41.454
Cnga2	0	0	0	8	0.133333	0.008437	0	Unclassified	chrX:69235213-69255557	18.345
Cnga1	0	0	0	34	0.566667	0.042128	0.543229	Unclassified	chr5:72994935-73035991	39.057
Sh3bp4	0	0	0	154	2.566667	0.300083	5.641096	Unclassified	chr1:90965036-91050368	83.333
Ckap5	0	0	0	525	8.75	8.99712	0.881623	Unclassified	chr2:91384478-91460821	74.344
Ears2	0	0	0	569	9.483333	4.10934	36.08651	Unclassified	chr7:129182334-129212577	28.244
Klhl24	0	0	0	213	3.55	2.18581	24.41136	Stalled	chr16:20095626-20127817	30.192
Abcc2	0	0	0	72	1.2	0.064212	0	Unclassified	chr19:43854797-43912708	55.912
Hmxo2	0	0	0	524	8.733333	30.5827	34.2723	Unclassified	chr16:4724360-4766248	39.889
Adrbk2	0	0	0	167	2.783333	0.221491	3.18844	Unclassified	chr5:113339497-113446534	105.038
Csmid1	0	0	0	864	14.4	0.017928	2.627113	Unclassified	chr8:15892544-17537385	1642.842
Zc3h11a	0	0	0	827	13.78333	17.1411	8.084748	Unclassified	chr1:135516447-135559957	41.511
Cpm	0	0	0	572	9.533333	1.57364	21.96194	Unclassified	chr10:117064555-117124408	57.854
Gfod2	0	0	0	167	2.783333	2.78145	18.47577	Stalled	chr8:108240012-108284507	42.496
Ipo5	0	0	0	1252	20.86667	28.8285	10.07284	Unclassified	chr14:121308415-121347266	36.852
Fgg	0	0	0	9	0.15	0.033661	1.212211	Unclassified	chr3:82809817-82818971	7.155
Tcerg11	0	0	0	151	2.516667	0.024944	1.118418	Unclassified	chr7:145400654-145591413	188.76
Itgb2l	0	0	0	41	0.683333	0.022024	0.708957	Unclassified	chr16:96643904-96667221	21.318
Itgb2	0	0	0	968	16.13333	33.1509	7.30448	Unclassified	chr10:76991092-77028419	35.328
Itgav	0	0	0	867	14.45	2.21262	30.01719	Unclassified	chr2:83562553-83647073	82.521
Itgb1	0	0	0	622	10.36667	14.4465	12.47619	Unclassified	chr8:131207553-131257479	47.927
Olfir923	0	0	0	0	0	0	0	Unclassified	chr9:38633277-38636231	0.955
Dach2	0	0	0	121	2.016667	0.867226	11.72902	Unclassified	chrX:110409864-110949995	538.132
Fshr	0	0	0	127	2.116667	0	0	Unclassified	chr17:89384291-89602015	215.725
Loxl1	0	0	0	78	1.3	0.191976	0.512949	Unclassified	chr9:58135529-58163019	25.491
Lox	0	0	0	10	0.166667	0.149358	2.785818	Unclassified	chr18:52676891-52691362	12.472
Fshb	0	0	0	0	0	0.016081	0	Unclassified	chr2:106896297-106901808	3.512
Olfir50	0	0	0	1	0.016667	0	0	Unclassified	chr2:36646757-36649696	0.94
Pard3b	0	0	0	838	13.96667	0.535838	8.820306	Unclassified	chr1:61683397-62688858	1003.462
C1qa	0	0	0	5	0.083333	0.177675	1.976109	Unclassified	chr4:136451830-136456759	2.93
Serping1	0	0	0	14	0.233333	0.091545	0.475644	Unclassified	chr2:84605516-84617586	10.071
Stc1	0	0	0	7	0.116667	0.234545	1.57489	Unclassified	chr14:69645345-69659458	12.114
Stc2	0	0	0	20	0.333333	0.629022	0.722861	Unclassified	chr11:31259440-31272061	10.622
Stat5b	0	0	0	1150	19.16667	16.7345	9.17771	Unclassified	chr11:100642044-100713899	69.856
Gm6084	0	0	0	3	0.05	0	0	Unclassified	chr17:40862068-40868731	4.664
Med26	0	0	0	1393	23.21667	5.86448	11.14377	Unclassified	chr8:75018459-75074209	53.751
Gm4696	0	0	0	12	0.2	0	1.266504	Unclassified	chr6:128656525-128675064	16.54
Arl16	0	0	0	398	6.633333	7.17188	11.84875	Unclassified	chr11:120325639-120330914	3.276
Rabep2	0	0	0	717	11.95	42.5877	9.566666	Unclassified	chr7:133570280-133589421	17.142
Hdac8	0	0	0	391	6.516667	6.16945	15.13835	Stalled	chrX:99479978-99702487	220.51
Zeb2	0	0	0	4187	69.78333	4.82603	3.647677	Unclassified	chr2:44839153-44970799	129.647
Zfp68	0	0	0	418	6.966667	4.48808	13.79548	Unclassified	chr5:139044879-139062971	16.093
Tcn2	0	0	0	60	1	3.11869	4.407874	Unclassified	chr11:3817080-3834081	15.002
Ldb3	0	0	0	96	1.6	0.057888	0	Unclassified	chr14:35339884-35403867	61.984
Atp6v1g1	0	0	0	171	2.85	15.4023	7.754809	Unclassified	chr4:63203798-63211734	5.937
Fam164b	0	0	0	132	2.2	0	5.027067	Unclassified	chr10:12869449-12899829	28.381
Sec22b	0	0	0	374	6.233333	23.0104	13.82468	Unclassified	chr3:97703149-97726241	21.093
Snai2	0	0	0	6	0.1	0.10197	1.674033	Unclassified	chr16:14703951-14709475	3.525
Zc3hav1l	0	0	0	145	2.416667	1.43078	17.73308	Stalled	chr6:38241871-38251259	7.389
Hltf	0	0	0	476	7.933333	4.10755	40.40159	Stalled	chr3:19955810-20018376	60.567
Smarcc1	0	0	0	1346	22.43333	11.6943	42.48107	Unclassified	chr9:110032527-110142682	108.156
Nbl1	0	0	0	39	0.65	0.508758	0.443223	Unclassified	chr4:138638206-138650885	10.68
Usp6nl	0	0	0	1433	23.88333	4.70601	18.28591	Unclassified	chr2:6241802-6364866	121.065
Krt13	0	0	0	6	0.1	0.029261	1.474835	Unclassified	chr11:99978909-99984809	3.901
Sele	0	0	0	16	0.266667	0.074821	1.302906	Unclassified	chr1:165976364-165987808	9.445
D630042P16Rik	0	0	0	45	0.75	0	0.391805	Unclassified	chr6:112309317-112340017	28.701
Myo1a	0	0	0	30	0.5	0.107026	0.352301	Unclassified	chr10:127140311-127157996	15.686
Krt31	0	0	0	8	0.133333	0.024319	0	Unclassified	chr11:99907959-99913865	3.907
Slc6a11	0	0	0	155	2.583333	0.053585	0.875848	Unclassified	chr6:114079234-114199880	118.647
Smok3b	0	0	0	0	0	0.028752	0	Unclassified	chr5:138476451-138491861	13.411
Rad52	0	0	0	596	9.933333	3.81982	10.11382	Unclassified	chr6:119850715-119872840	20.126
Mrps21	0	0	0	364	6.066667	73.7518	1.515409	Elongating	chr3:95666574-95676542	7.969
Naa15	0	0	0	1	0.016667	0.266	0	Unclassified	chr8:70012656-70016002	1.347
Ripply1	0	0	0	3	0.05	0.066041	0	Unclassified	chrX:136314219-136318892	2.674

2410016006Rik	0	0	0	314	5.233333	13.9824	6.267603	Unclassified	chr12:85289557-85293903	2.347
Rnf135	0	0	0	285	4.75	10.3005	28.03019	Stalled	chr11:79995373-80013255	15.883
Krt17	0	0	0	9	0.15	0.016964	1.290403	Unclassified	chr11:100117530-100124303	4.774
Gm4937	0	0	0	1	0.016667	0	0	Unclassified	chrX:73507644-73513012	3.369
Slc44a2	0	0	0	433	7.216667	19.4702	1.646603	Elongating	chr9:21140295-21159472	17.178
Krt14	0	0	0	13	0.216667	0.011572	0.323671	Unclassified	chr11:100064475-100070824	4.35
Klk5	0	0	0	11	0.183333	0.041376	0	Unclassified	chr7:51095638-51106551	8.914
Trpm4	0	0	0	189	3.15	1.30713	18.57099	Stalled	chr7:52558524-52591150	30.627
Svop	0	0	0	105	1.75	0.056206	0.762532	Unclassified	chr5:114476921-114543389	64.469
Gpr31c	0	0	0	1	0.016667	0.193752	1	Unclassified	chr17:13244186-13247146	0.961
Scgb3a1	0	0	0	13	0.216667	0.150024	1.350993	Unclassified	chr11:49475111-49478620	1.51
Tas2r117	0	0	0	0	0	0	0	Unclassified	chr6:132750918-132753911	0.994
Tas2r123	0	0	0	0	0	0.038372	0	Unclassified	chr6:132795159-132798161	1.003
Cyp8b1	0	0	0	21	0.35	0.696492	0.317726	Unclassified	chr9:121823474-121827423	1.95
Oifr1346	0	0	0	2	0.033333	0.027211	0	Unclassified	chr7:6424822-6427764	0.943
Cyp7a1	0	0	0	7	0.116667	0.018432	0	Unclassified	chr4:6192758-6204778	10.021
Cyp7b1	0	0	0	84	1.4	0.165677	3.416135	Unclassified	chr3:17971949-18145338	171.39
Cyp4b1	0	0	0	11	0.183333	0.044484	0	Unclassified	chr4:115297332-115322310	22.979
Gbp10	0	0	0	15	0.25	0.88898	5.742635	Unclassified	chr5:105644717-105670552	23.836
Agxt2	0	0	0	34	0.566667	0.077249	0	Unclassified	chr15:10286333-10339493	51.161
Lca5l	0	0	0	144	2.4	0.957968	14.40766	Stalled	chr16:96380012-96415864	33.853
Gm13084	0	0	0	4	0.066667	0.024068	0.836173	Unclassified	chr4:143399893-143407996	6.104
Gria2	0	0	0	61	1.016667	0.056204	2.016433	Unclassified	chr3:80488857-80608713	117.857
Pcgf6	0	0	0	450	7.5	6.87967	26.62415	Unclassified	chr19:47108108-47127335	17.228
Mto1	0	0	0	624	10.4	5.88108	13.05891	Unclassified	chr9:78294016-78321959	25.944
Cited4	0	0	0	11	0.183333	3.42284	1.440032	Unclassified	chr4:120337167-120340425	1.259
Tyms	0	0	0	523	8.716667	11.0841	8.062602	Unclassified	chr5:30385366-30402121	14.756
Xkr8	0	0	0	143	2.383333	2.85975	3.760326	Unclassified	chr4:132280818-132290461	7.644
Oifr30	0	0	0	2	0.033333	0.027039	1	Unclassified	chr11:58268416-58271482	1.067
Oifr3	0	0	0	2	0.033333	0.040816	1	Unclassified	chr2:36667668-36670610	0.943
Tspan10	0	0	0	9	0.15	0.055885	0.761865	Unclassified	chr11:120301944-120308635	4.692
C030046E11Rik	0	0	0	858	14.3	5.51179	27.27743	Unclassified	chr19:29594771-29680411	83.641
Diap2	0	0	0	709	11.81667	1.70089	45.22951	Stalled	chrX:126282277-126995733	711.457
Ftcd	0	0	0	20	0.333333	0.028376	0.44611	Unclassified	chr10:76036392-76053083	14.692
Etnk2	0	0	0	49	0.816667	1.50136	3.34753	Unclassified	chr1:135258148-135276895	16.748
Fst	0	0	0	4	0.066667	0.208396	0	Unclassified	chr13:115242469-115250938	6.47
Sdpr	0	0	0	8	0.133333	0.130051	0.681461	Unclassified	chr1:51343969-51359804	13.836
Pdgd	0	0	0	85	1.416667	0.09996	0	Unclassified	chr9:6166611-6377519	208.909
Agpat6	0	0	0	902	15.03333	21.5802	13.70627	Unclassified	chr8:24283417-24320925	35.509
Npnt	0	0	0	870	14.5	19.2139	28.73083	Unclassified	chr9:58428046-58500686	70.641
Frrs1	0	0	0	197	3.283333	0.75959	9.622642	Unclassified	chr3:116562597-116606668	42.072
Pus7	0	0	0	721	12.01667	6.50805	11.981	Unclassified	chr5:23246513-23291479	42.967
Naip5	0	0	0	36	0.6	0.525981	10.32815	Unclassified	chr13:100981694-101019291	35.598
Napb	0	0	0	62	1.033333	0.915906	5.204743	Unclassified	chr2:148520392-148560156	37.765
Nap114	0	0	0	1479	24.65	47.2167	15.80092	Unclassified	chr7:150699483-150736995	35.513
Nap112	0	0	0	1	0.016667	0.13265	0	Unclassified	chrX:100379397-100384003	2.607
Slc6a1	0	0	0	46	0.766667	0.053642	0.881534	Unclassified	chr6:114230628-114267518	34.891
Trim62	0	0	0	122	2.033333	1.11779	3.898798	Unclassified	chr4:128559383-128588570	27.188
Atg12	0	0	0	201	3.35	4.97727	24.0696	Stalled	chr18:46892070-46903233	9.164
Nudt7	0	0	0	163	2.716667	2.85911	25.67875	Stalled	chr8:116655478-116676205	18.728
Wdr72	0	0	0	108	1.8	0.017193	2.492049	Unclassified	chr9:73956140-74131010	172.871
Oifr211	0	0	0	2	0.033333	0	1	Unclassified	chr6:116441628-116444558	0.931
Cnot3	0	0	0	1025	17.08333	23.7446	5.056215	Unclassified	chr7:3594954-3612702	15.749
Aldh8a1	0	0	0	35	0.583333	0.108406	0.386633	Unclassified	chr10:21095105-21116384	19.228
Tbd1d15	0	0	0	784	13.06667	6.27023	16.58327	Unclassified	chr10:114634926-114690549	53.624
Uqcrrs1	0	0	0	343	5.716667	51.9911	19.33731	Unclassified	chr13:30632180-30639185	5.006
Aspn	0	0	0	53	0.883333	0	0	Unclassified	chr13:49637909-49662931	23.023
Snx31	0	0	0	67	1.116667	0.071334	1.334978	Unclassified	chr15:36433816-36487327	51.512
Oifr834	0	0	0	2	0.033333	0.027298	2	Unclassified	chr9:18790433-18793372	0.94
Oifr832	0	0	0	0	0	0	0	Unclassified	chr9:18747093-18750032	0.94
3110001D03Rik	0	0	0	111	1.85	45.4513	104	Unclassified	chr4:74923257-74926190	0.934
Ckm	0	0	0	38	0.633333	1.4492	0.213324	Unclassified	chr7:19994442-20006932	10.491
Abcg4	0	0	0	50	0.833333	0.506984	2.871436	Unclassified	chr9:44081272-44098327	15.056
Sec11a	0	0	0	680	11.33333	41.9774	23.84636	Unclassified	chr7:88060264-88094436	32.173
Mn1	0	0	0	77	1.283333	0.078426	1.430593	Unclassified	chr5:111845185-111886045	38.861
Klhl36	0	0	0	219	3.65	4.25333	9.919991	Unclassified	chr8:122384204-122400889	14.686
Raver1	0	0	0	1413	23.55	32.2791	7.338412	Unclassified	chr9:20878608-20898432	17.825
Nxf3	0	0	0	3	0.05	0.012911	0	Unclassified	chrX:132606637-132621794	13.158
Gira3	0	0	0	55	0.916667	0	0.772659	Unclassified	chr8:58417621-58604149	184.529
Kir3dl1	0	0	0	3	0.05	0	0	Unclassified	chrX:133050537-133068847	16.311
Pgm1	0	0	0	260	4.333333	7.17303	24.28723	Stalled	chr5:64482188-64519397	35.21
Kir3dl2	0	0	0	1	0.016667	0	0	Unclassified	chrX:132982645-133005580	20.936
Ubr3	0	0	0	924	15.4	5.48003	16.37236	Unclassified	chr2:69733302-69862070	126.769
Pkdcc	0	0	0	32	0.533333	0.214128	1.312229	Unclassified	chr17:83612622-83624409	9.788
Rhod3	0	0	0	379	6.316667	0.104256	1.064219	Unclassified	chr18:24865945-25292002	424.058
Reep2	0	0	0	191	3.183333	0.381232	5.415984	Unclassified	chr18:34998311-35007109	6.799
Cox8a	0	0	0	319	5.316667	174.211	5.011686	Unclassified	chr19:7289647-7294106	2.46
Cd34	0	0	0	15	0.25	0.124784	0.641502	Unclassified	chr1:196763014-196787486	22.473
1110067D22Rik	0	0	0	98	1.633333	0.59955	9.586505	Unclassified	chr11:20723357-20733111	7.755
Hsfy2	0	0	0	2	0.033333	0.045675	1	Unclassified	chr1:56692892-56696295	1.404
Faim	0	0	0	237	3.95	11.4962	29.06631	Stalled	chr9:98884791-98902438	15.648
I128ra	0	0	0	77	1.283333	0.258948	2.150606	Unclassified	chr4:135240371-135264093	21.723
Eef1a2	0	0	0	23	0.383333	0.352077	0.29391	Unclassified	chr2:180882396-180893720	9.325
Myom3	0	0	0	123	2.05	0.200004	0.315506	Unclassified	chr4:135313629-135371479	55.851
Tmem167	0	0	0	560	9.333333	2.06336	16.79084	Unclassified	chr13:90227271-90254526	25.256
Rprd1a	0	0	0	461	7.683333	4.49566	22.64792	Unclassified	chr18:24643462-24690705	45.244

Sdhaf2	0	0	0	674	11.23333	8.28753	33.59582	Unclassified	chr19:10575002-10601699	24.698
H2afz	0	0	0	583	9.716667	87.9626	8.521723	Unclassified	chr3:137525562-137529886	2.325
Sobp	0	0	0	156	2.6	0.527437	1.593307	Unclassified	chr10:42722305-42896336	172.032
Aoah	0	0	0	170	2.833333	0.109917	0	Unclassified	chr13:20883987-21116121	230.135
Fkbp9	0	0	0	74	1.233333	0.297955	1.20473	Unclassified	chr6:56780052-56829354	47.303
Sec23b	0	0	0	603	10.05	16.0367	21.01348	Unclassified	chr2:144380012-144416479	34.468
Sh3d19	0	0	0	126	2.1	0.517241	0.274784	Unclassified	chr3:85886355-85934443	46.089
Grik1	0	0	0	249	4.15	0.049024	1.232412	Unclassified	chr16:87896141-88292503	394.363
Vwce	0	0	0	98	1.633333	0.152058	4.115612	Unclassified	chr19:10706722-10739700	30.979
Pabpn1l	0	0	0	24	0.4	0.033609	1.187475	Unclassified	chr8:125143370-125148635	3.266
Cpsf2	0	0	0	894	14.9	10.2895	41.38079	Unclassified	chr12:103212183-103244203	30.021
Ccdc117	0	3.991561	0	412	6.866667	13.2064	5.347374	Unclassified	chr11:5428890-5444220	13.331
Cbx4	0	0	0	1262	21.03333	21.5328	2.639365	Elongating	chr11:118938884-118949551	8.668
Nr4a1	0	0	0	121	2.016667	2.90045	6.954129	Unclassified	chr15:101095276-101105223	7.948
Rnase13	0	0	0	4	0.066667	0.125241	2	Unclassified	chr14:52541834-52544448	0.615
Cbx1	0	0	0	498	8.3	33.5091	18.3943	Unclassified	chr11:96648449-96669954	19.506
Foxa1	0	0	0	19	0.316667	0.146778	0	Unclassified	chr12:58641618-58649108	5.491
Foxa3	0	0	0	95	1.583333	0.177289	2.565761	Unclassified	chr7:19598631-19610888	10.258
Cbx2	0	0	0	89	1.483333	3.24286	6.054694	Unclassified	chr11:118882342-118892584	8.243
Hs6st3	0	0	0	404	6.733333	0.218985	0.645049	Unclassified	chr14:119535486-120269037	731.552
Hs6st2	0	0	0	84	1.4	0.038692	1.563123	Unclassified	chrX:48740388-49036779	294.392
Hs6st1	0	0	0	652	10.86667	14.6877	9.729354	Unclassified	chr1:36123244-36163290	38.047
Ppap2c	0	0	0	35	0.583333	3.48763	4.17734	Unclassified	chr10:78989173-78998532	7.36
Rgs11	0	0	0	25	0.416667	2.21663	2.662053	Unclassified	chr17:26337906-26348269	8.364
Zfp808	0	0	0	59	0.983333	1.66656	25.94569	Stalled	chr13:62229249-62275296	44.048
Impg1	0	0	0	91	1.516667	0.10044	1.382261	Unclassified	chr9:80161136-80361045	197.91
Fbxl8	0	0	0	242	4.033333	5.21017	13.09579	Stalled	chr8:107786547-107793226	4.68
Nadsyn1	0	0	0	291	4.85	3.49703	30.44721	Stalled	chr7:150981498-151010746	27.249
Trim42	0	0	0	29	0.483333	0.057239	0	Unclassified	chr9:97249980-97272377	20.398
Spaca1	0	0	0	15	0.25	0.214999	1.960794	Unclassified	chr4:34115288-34139042	21.755
Fndc8	0	0	0	221	3.683333	0.117016	0.033514	Unclassified	chr11:82703646-82714239	8.594
Zfp184	0	0	0	42	0.7	2.3323	11.00347	Stalled	chr13:22034962-22052354	15.393
BC030476	0	0	0	25	0.416667	0.113419	3.852253	Unclassified	chr15:34381066-34403646	20.581
UBqln2	0	0	0	221	3.683333	6.90605	10.00386	Unclassified	chrX:149930774-149936101	3.328
Cla5	0	0	0	24	0.4	0.029418	0.558038	Unclassified	chr3:144733228-144764005	28.778
Dpt	0	0	0	81	1.35	0.094007	0.258797	Unclassified	chr1:166724862-166754397	27.536
Pgam5	0	0	0	441	7.35	13.7924	7.723783	Unclassified	chr5:110688153-110700918	10.766
Leap2	0	0	0	73	1.216667	0.077362	40	Unclassified	chr11:53235682-53238638	0.957
Tspyl5	0	0	0	5	0.083333	0.201404	0.429387	Unclassified	chr15:33613629-33619638	4.01
1700072E05Rik	0	0	0	2	0.033333	0	0.679076	Unclassified	chrX:83287537-83292652	3.116
Ncoa6	0	0	0	255	4.25	4.75562	0	Unclassified	chr2:155216400-155268519	50.12
Vmn2r-ps14	0	0	0	25	0.416667	0.627729	9.092126	Unclassified	chr4:145052112-145057864	3.753
Tmem64	0	0	0	354	5.9	5.54328	28.51168	Stalled	chr4:15190966-15213900	20.935
Cyp4a30b	0	0	0	6	0.1	0.058652	0.777382	Unclassified	chr4:115123208-115143667	18.46
Gm11435	0	0	0	71	1.183333	0.082025	1.379436	Unclassified	chr11:83325237-83337677	10.441
Hnf4g	0	0	0	52	0.866667	0.033727	0.75472	Unclassified	chr3:3506029-3659800	151.772
Krtap1-4	0	0	0	3	0.05	0	3	Unclassified	chr11:99443862-99446991	1.13
Vkorc1l1	0	0	0	345	5.75	3.68087	4.324095	Unclassified	chr5:130415982-130458760	40.779
Gpr21	0	0	0	17	0.283333	0	0.932908	Unclassified	chr2:37370145-37374801	2.657
Fgd4	0	0	0	62	1.033333	0.025511	1.405799	Unclassified	chr16:16422070-16562289	138.22
Cntlh	0	0	0	364	6.066667	2.26396	47.55718	Stalled	chr4:84528230-84777822	247.593
Lamb2	0	0	0	75	1.25	0.772281	0.511167	Unclassified	chr9:108380192-108392861	10.67
Ptpr	0	0	0	156	2.6	0.691594	1.881168	Unclassified	chr10:115453418-115711985	256.568
Prkab2	0	0	0	186	3.1	1.63893	19.39984	Stalled	chr3:97460134-97476990	14.857
Ptprm	0	0	0	554	9.233333	0.135805	3.902434	Unclassified	chr17:67016188-67705799	687.612
Ptprn	0	0	0	124	2.066667	0.123269	0.123268	Unclassified	chr1:75243615-75262783	17.169
Lama2	0	0	0	280	4.666667	0.03233	1.39079	Unclassified	chr10:26701091-27338748	635.658
Ptprg	0	0	0	494	8.233333	0.019524	0.582376	Unclassified	chr14:12384066-13074553	688.488
Lama4	0	0	0	95	1.583333	0.088264	1.212838	Unclassified	chr10:38683646-38829937	144.292
Ptprk	0	0	0	255	4.25	0.049796	0	Unclassified	chr10:27792625-28317203	522.579
Lamb1-1	0	0	0	103	1.716667	0.037647	0.387806	Unclassified	chr12:31948158-32014504	64.347
Bet1	0	0	0	117	1.95	11.0742	16.39977	Stalled	chr6:4026903-4038927	10.025
Bex2	0	0	0	2	0.033333	3.48034	0	Unclassified	chrX:132601104-132604649	1.546
Tnfsf4	0	0	0	37	0.616667	0.573287	3.001576	Unclassified	chr1:163323568-163348337	22.77
Txk	0	0	0	116	1.933333	0.079627	2.459612	Unclassified	chr5:73087216-73146012	56.797
Twist1	0	0	0	8	0.133333	0.691924	0	Unclassified	chr12:34640535-34644696	2.162
Trim38	0	0	0	17	0.283333	0	0	Unclassified	chr13:23872440-23883364	8.925
Bdkrb1	0	0	0	10	0.166667	0.679823	0.869602	Unclassified	chr12:106840300-106843638	1.339
Bdkrb2	0	0	0	81	1.35	0.106803	1.157186	Unclassified	chr12:106799381-106831281	29.901
Bdnf	0	0	0	43	0.716667	0.099789	1.686299	Unclassified	chr2:109512856-109567200	52.345
Cmpk2	0	0	0	245	4.083333	6.03541	13.73055	Unclassified	chr12:27152079-27164702	10.624
Gm13276	0	0	0	0	0	0	0	Unclassified	chr4:88428866-88432422	1.557
Lrrc19	0	0	0	20	0.333333	0	0	Unclassified	chr4:94303350-94318835	13.486
Elf2	0	0	0	1520	25.33333	9.61943	0.219335	Unclassified	chr3:51059586-51131909	70.324
Zfp397	0	0	0	469	7.816667	3.16268	25.0562	Unclassified	chr18:24111188-24123171	9.984
Kctd5	0	0	0	792	13.2	10.8481	9.20648	Unclassified	chr17:24184686-24212452	25.767
Gm106	0	0	0	55	0.916667	0.074622	0.416698	Unclassified	chr1:15843942-15884803	38.862
4930486G11Rik	0	0	0	105	1.75	0.623626	9.014817	Unclassified	chr9:81755350-81921098	163.749
Taar7e	0	0	0	0	0	0	0	Unclassified	chr10:23755419-23758496	1.078
Fam13b	0	0	0	574	9.566667	3.10422	34.46193	Unclassified	chr18:34602004-34668477	64.474
D10Bwg1379e	0	0	0	162	2.7	0.417929	3.497164	Unclassified	chr10:18307816-18465564	155.749
Gm414	0	0	0	17	0.283333	0.035584	0.55675	Unclassified	chr3:69809534-69832630	21.097
Trim24	0	0	0	1365	22.75	8.27926	22.47275	Unclassified	chr6:37818810-37916289	95.48
Tiam1	0	0	0	447	7.45	0.728034	0.894787	Unclassified	chr16:89787355-89976944	187.59
Tie1	0	0	0	27	0.45	0.019824	0	Unclassified	chr4:118143795-118164454	18.66
Phlda1	0	0	0	245	4.083333	8.60711	6.246889	Unclassified	chr10:110941341-110945705	2.365

Tdg	0	0	0	713	11.88333	5.68645	11.80419	Unclassified	chr10:82090582-82113239	20.658
I125	0	0	0	9	0.215	0.065058	0.584572	Unclassified	chr14:55549607-55554671	3.065
Otoa	0	0	0	133	2.216667	0.007025	6.320793	Unclassified	chr7:128224951-128306603	79.653
Ccdc83	0	0	0	26	0.433333	0.03316	1.697531	Unclassified	chr7:97384270-97415942	29.673
Gm14511	0	0	0	0	0	0	0	Unclassified	chrX:8552837-8555685	0.849
Semg1	0	0	0	0	0	0.04898	0	Unclassified	chr2:164061664-164066077	2.414
Olfr895	0	0	0	0	0	0.04043	0	Unclassified	chr9:38074099-38077050	0.952
Tmc2	0	0	0	80	1.333333	0.027896	0.473148	Unclassified	chr2:130018929-130090181	69.253
Tie6	0	0	0	58	0.966667	0.737738	7.029565	Unclassified	chr10:81053649-81065645	9.997
Olfr1083	0	0	0	0	0	0.016386	0	Unclassified	chr2:86446783-86449726	0.944
Abi3bp	0	0	0	166	2.766667	0.074705	0.561501	Unclassified	chr16:56475958-56690241	212.284
Olfr1040	0	0	0	0	0	0	0	Unclassified	chr2:85985947-85988889	0.943
Olfr924	0	0	0	0	0	0	0	Unclassified	chr9:38653700-38656627	0.928
Olfr776	0	0	0	2	0.033333	0	0	Unclassified	chr10:128696018-128698957	0.94
Olfr1173	0	0	0	0	0	0	0	Unclassified	chr2:88114265-88117204	0.94
Olfr1118	0	0	0	0	0	0.015514	0	Unclassified	chr2:87146920-87149916	0.997
Chrbn1	0	0	0	157	2.616667	3.30364	12.78981	Stalled	chr11:69597537-69611439	11.903
Chrna7	0	0	0	75	1.25	0.036776	1.227572	Unclassified	chr7:70243577-70359412	113.836
Stk35	0	0	0	610	10.16667	4.92826	14.91471	Unclassified	chr2:129624252-129658019	31.768
Gstm5	0	0	0	13	0.216667	2.36237	13	Unclassified	chr3:107696771-107701603	2.833
Chrbn2	0	0	0	99	1.65	0.333308	1.070115	Unclassified	chr3:89557369-89570554	11.186
Dnajb7	0	0	0	19	0.316667	0	1.5754	Unclassified	chr15:81237517-81240703	1.187
Cend1	0	0	0	72	1.2	0.046408	9.008026	Unclassified	chr7:148612349-148617319	2.971
Pglyrp2	0	0	0	62	1.033333	3.76719	0	Unclassified	chr17:32550044-32559920	7.877
Rnf25	0	0	0	251	4.183333	9.98854	6.826278	Unclassified	chr1:74640326-74649971	7.646
Cntn1	0	0	0	184	3.066667	0.370747	1.846654	Unclassified	chr15:91879595-92172398	290.804
Tacc2	0	0	0	700	11.66667	1.70281	1.483124	Unclassified	chr7:137718997-137908298	187.302
Pkkaa1	0	0	0	421	7.016667	3.90922	12.23397	Unclassified	chr15:5091860-5131899	38.04
Zfp534	0	0	0	1	0.016667	0	0	Unclassified	chr4:147047611-147078662	29.052
Scrib	0	0	0	705	11.75	16.744	21.13901	Unclassified	chr15:75877615-75902160	22.546
Ifnk	0	0	0	24	0.4	0	1.260084	Unclassified	chr4:35097303-35101268	1.966
Tas2r134	0	0	0	0	0	0	0	Unclassified	chr2:51481030-51483927	0.898
Tas2r135	0	0	0	1	0.016667	0	0	Unclassified	chr6:42353527-42356493	0.967
Tas2r138	0	0	0	1	0.016667	0	0	Unclassified	chr6:40562313-40565309	0.997
Tas2r143	0	0	0	2	0.033333	0.072655	2	Unclassified	chr6:42348236-42351118	0.883
Tas2r144	0	0	0	1	0.016667	0	1	Unclassified	chr6:42163326-42166286	0.961
Magea3	0	0	0	0	0	0.004762	0	Unclassified	chrX:151383005-151386112	1.108
Magea2	0	0	0	0	0	0.006923	0	Unclassified	chrX:151461743-151469835	6.093
Smad9	0	0	0	65	1.083333	0.057301	1.256419	Unclassified	chr3:54557503-54605179	45.677
Moap1	0	0	0	394	6.566667	14.232	14.29442	Unclassified	chr12:103978039-103983870	3.832
Yipf3	0	0	0	519	8.65	22.3293	8.694458	Unclassified	chr17:46383028-46389486	4.459
Osbpl11	0	0	0	452	7.533333	6.19779	22.28102	Unclassified	chr16:33183156-33243397	58.242
Smad6	0	0	0	176	2.933333	0.435722	2.529825	Unclassified	chr9:63800883-63871866	68.984
Mnat1	0	0	0	658	10.96667	7.52948	16.2371	Stalled	chr12:74222703-74374975	150.273
Mafk	0	0	0	783	13.05	12.5965	4.700037	Unclassified	chr5:140265489-140278606	11.118
Magea1	0	0	0	0	0	0.004145	0	Unclassified	chrX:151523061-151526333	1.273
Mag	0	0	0	52	0.866667	0.174264	1.551711	Unclassified	chr7:31684201-31701851	15.651
I830077J02Rik	0	0	0	19	0.316667	0.108205	2.065574	Unclassified	chr3:105728808-105737582	6.775
Lrch3	0	0	0	1163	19.38333	4.57682	26.01178	Unclassified	chr16:32912185-33016115	101.931
Slain2	0	0	0	506	8.433333	6.75063	42.34031	Stalled	chr5:73303555-73370067	64.513
Mtnr1b	0	0	0	14	0.233333	0	0.522513	Unclassified	chr9:15667058-15681000	11.943
Gpr146	0	0	0	946	15.76667	2.78596	1.866402	Elongating	chr5:139854620-139872368	15.749
Armcx3	0	0	0	32	0.533333	2.91089	5.888982	Unclassified	chrX:131289106-131295995	4.89
Olfr853	0	0	0	0	0	0	0	Unclassified	chr9:19341454-19344372	0.919
Zfp40	0	0	0	91	1.516667	0.910831	20.45856	Stalled	chr17:23310835-23332195	19.361
Slain1	0	0	0	344	5.733333	5.25204	26.61047	Stalled	chr14:104047459-104104016	54.558
Sumf1	0	0	0	484	8.066667	6.07533	18.2462	Stalled	chr6:108057021-108137576	78.556
Myot	0	0	0	8	0.133333	0.087107	0	Unclassified	chr18:44491727-44515376	21.65
Gstm4	0	0	0	194	3.233333	4.08576	42.24086	Stalled	chr3:107843327-107849774	4.448
Rgs13	0	0	0	28	0.466667	0.068491	0.582734	Unclassified	chr1:145985796-146026502	38.707
0610010012Rik	0	0	0	167	2.783333	2.60635	9.501943	Unclassified	chr18:36506277-36553024	44.748
Rrh	0	0	0	197	3.283333	0.036776	2.4565	Elongating	chr3:129511492-129527423	13.932
Rras	0	0	0	109	1.816667	9.5223	10.92165	Stalled	chr7:52271376-52277014	3.639
Gng11	0	0	0	1	0.016667	0.214627	0	Unclassified	chr6:3951986-3958445	4.46
Defcr-rs1	0	0	0	0	0	0	0	Unclassified	chr8:22465566-22468699	1.134
BC051665	0	0	0	6	0.1	0.038133	0.40989	Unclassified	chr13:60883253-60889725	4.473
Hrh3	0	0	0	24	0.4	0.131747	3.192069	Unclassified	chr2:179834177-179840927	4.751
Mpi	0	0	0	236	3.933333	7.54164	3.166552	Unclassified	chr9:57392074-57402559	8.486
Cnr1	0	0	0	21	0.35	0.090489	1.183694	Unclassified	chr4:34009606-34035806	24.201
Vipr1	0	0	0	74	1.233333	0.776291	1.519119	Unclassified	chr9:121549833-121582072	30.24
Stx2	0	0	0	121	2.016667	1.19595	14.68905	Stalled	chr5:129490435-129516439	24.005
Lpar1	0	0	0	98	1.633333	0.314705	2.230602	Unclassified	chr4:58448123-58568363	118.241
2310007A19Rik	0	0	0	19	0.316667	0.081633	0.336518	Unclassified	chr3:94268906-94279513	8.608
Vill	0	0	0	104	1.733333	1.91671	0.773384	Unclassified	chr9:118959895-118980643	18.749
Wdr69	0	0	0	34	0.566667	0.018973	0.60885	Unclassified	chr1:83154336-83207145	50.81
Tada1	0	0	0	397	6.616667	10.6851	9.429076	Unclassified	chr1:168307297-168323749	14.453
Olah	0	0	0	24	0.4	0	0	Unclassified	chr2:3259259-3285841	24.583
Mmp21	0	0	0	71	1.183333	0.075877	0.551889	Unclassified	chr7:140865952-140873744	5.793
Osbpl6	0	0	0	160	2.666667	0.089257	2.225352	Unclassified	chr2:76242594-76438704	194.111
Raet1e	0	0	0	3	0.05	0	0	Unclassified	chr10:21891326-21903720	10.395
Efcab6	0	0	0	223	3.716667	0.1419	0	Unclassified	chr15:83697141-83897779	198.639
Odf3	0	0	0	68	1.133333	0.027741	0.329007	Unclassified	chr7:148031814-148036824	3.011
Lnx2	0	0	0	784	13.06667	5.34562	13.35678	Unclassified	chr5:147828230-147890148	59.919
Gsta4	0	0	0	33	0.55	0.535128	7.589162	Unclassified	chr9:78037772-78057156	17.385
Clint1	0	0	0	752	12.53333	25.2936	8.708108	Unclassified	chr11:45663465-45724127	58.663
Arl4a	0	0	0	295	4.916667	4.35928	29.28284	Stalled	chr12:40759877-40765963	4.087

Grm1	0	0	0	247	4.116667	0.067021	0	Unclassified	chr10:10408554-10804129	393.576
Nr3c1	0	0	0	600	10	3.97066	1.154518	Unclassified	chr18:39570198-39648899	76.702
Pax9	0	0	0	14	0.233333	0.144395	0.548753	Unclassified	chr12:57794625-57812217	15.593
Grin2c	0	0	0	63	1.05	0.261825	3.025904	Unclassified	chr11:115110482-115130557	18.076
Grin2a	0	0	0	317	5.283333	0.024114	0.567797	Unclassified	chr16:9577802-9994626	414.825
Pbx2	0	0	0	183	3.05	13.5644	5.234763	Unclassified	chr17:34727415-34734286	4.872
Olf1349	0	0	0	4	0.066667	0.053737	0	Unclassified	chr7:6467184-6470138	0.955
Igbb1	0	0	0	194	3.233333	35.9508	9.842438	Unclassified	chrX:97687629-97711464	21.836
Kat2b	0	0	0	656	10.93333	1.43016	15.79912	Unclassified	chr17:53704639-53812045	105.407
Nat8l	0	0	0	43	0.716667	0.61436	1.065245	Unclassified	chr5:34336632-34348565	9.934
Gria4	0	0	0	120	2	0.025069	0	Unclassified	chr9:4417892-4798234	378.343
Zbtb25	0	0	0	881	14.68333	4.52675	13.17572	Unclassified	chr12:77449930-77471986	20.057
Rundc3a	0	0	0	83	1.383333	0.71308	0.821031	Unclassified	chr11:102252748-102263867	9.12
Kcnk15	0	0	0	16	0.266667	0.248378	4.074659	Unclassified	chr2:163677485-163684610	5.126
Olf205	0	0	0	0	0	0.040629	0	Unclassified	chr16:59328415-59331333	0.919
Olf1707	0	0	0	0	0	0.039545	0	Unclassified	chr7:114034697-114037621	0.925
Vat1l	0	0	0	133	2.216667	0.056104	0	Unclassified	chr8:116727539-116897970	168.432
Aldh16a1	0	0	0	616	10.26667	15.0117	34.07615	Unclassified	chr7:52397209-52411908	12.7
Adam26b	0	0	0	1	0.016667	0.014412	0	Unclassified	chr8:44605217-44615491	8.275
Zfp366	0	0	0	87	1.45	0.069705	0.843063	Unclassified	chr13:99952777-100016987	62.211
Gpr371l	0	0	0	13	0.216667	0.073951	0.738026	Unclassified	chr1:137056826-137066258	7.433
Acnat2	0	0	0	10	0.166667	0.034737	0	Unclassified	chr4:49392716-49423023	28.308
Ii17rd	0	0	0	80	1.333333	0.275929	3.920954	Unclassified	chr14:27850186-27920472	68.287
Cyp11b1	0	0	0	17	0.283333	0.066829	0.291211	Unclassified	chr15:74665322-74674073	6.752
Sgsh	0	0	0	204	3.4	2.36634	12.16831	Unclassified	chr11:119204802-119218824	12.023
Olf194	0	0	0	0	0	0.027826	0	Unclassified	chr16:59118975-59121894	0.92
1700001J03Rik	0	0	0	10	0.166667	0	0.63388	Unclassified	chr5:146994025-146998880	2.856
Id3	0	0	0	570	9.5	26.5793	1.93635	Elongating	chr4:135697736-135701307	1.572
Parp4	0	0	0	507	8.45	2.93866	12.86863	Unclassified	chr14:57192455-57278635	84.181
9030619P08Rik	0	0	0	7	0.116667	0.02549	0.392097	Unclassified	chr15:75258035-75264259	4.225
Cplx1	0	0	0	52	0.866667	0.052622	1.636791	Unclassified	chr5:108947572-108981046	31.475
Wnt7a	0	0	0	67	1.116667	0.032283	1.744106	Unclassified	chr6:91313976-91363363	47.388
Apobec4	0	0	0	17	0.283333	0.040921	2.998749	Unclassified	chr1:154595680-154604674	6.995
Cicc1	0	0	0	389	6.483333	6.85945	25.44752	Unclassified	chr3:108455164-108480929	23.766
Epor	0	0	0	37	0.616667	0.812845	0.292922	Unclassified	chr9:21763342-21770020	4.679
Actn3	0	0	0	247	4.116667	0.117515	4.237095	Unclassified	chr19:4861222-4879884	16.663
Fbxo46	0	0	0	485	8.083333	5.58455	10.50758	Unclassified	chr7:19703207-19723609	18.403
Mil12	0	0	0	19	0.316667	0.059611	2.305582	Unclassified	chr7:19423314-19444002	18.689
Psg22	0	0	0	10	0.166667	0.017135	0.576211	Unclassified	chr7:19301438-19312595	9.158
Ddx25	0	0	0	84	1.4	1.3845	4.156583	Unclassified	chr9:35349432-35368055	16.624
Gpr50	0	0	0	5	0.083333	0.014233	0	Unclassified	chrX:68914941-68921264	4.324
Nmur1	0	0	0	4	0.066667	0.073657	3	Unclassified	chr1:88282899-88286716	1.818
Ing5	0	0	0	778	12.96667	4.13113	11.9771	Unclassified	chr1:95698541-95718677	18.137
Gpr27	0	0	0	3	0.05	0.393484	1	Unclassified	chr6:99640672-99643812	1.141
Gpr19	0	0	0	87	1.45	2.14247	1.619542	Unclassified	chr6:134819110-134839877	18.768
Gpr37	0	0	0	24	0.4	0.191834	0.518488	Unclassified	chr6:25618522-25641980	21.459
Tmed6	0	0	0	51	0.85	0.601444	1.049278	Unclassified	chr8:109585383-109591544	4.162
Pigyl	0	0	0	175	2.916667	29.0809	14.34664	Unclassified	chr9:21959289-21962798	1.51
Spesp1	0	0	0	13	0.216667	0.038283	1.7967	Unclassified	chr9:62118535-62131986	11.452
Lacln1	0	0	0	193	3.216667	2.7396	14.90739	Stalled	chr1:67047090-67087439	38.35
Adat1	0	0	0	601	10.01667	2.37389	14.27155	Unclassified	chr8:114490807-114518202	25.396
Asb11	0	0	0	23	0.383333	0.020311	0.476203	Unclassified	chrX:160874032-160897032	21.001
Alkbh4	0	0	0	50	0.833333	5.37838	0.738059	Unclassified	chr5:136612650-136617484	2.835
Cotl1	0	0	0	1091	18.18333	168.915	10.17867	Unclassified	chr8:122333113-122366479	31.367
D5Wsu178e	0	0	0	614	10.23333	2.93412	32.53576	Unclassified	chr5:30557157-30598976	39.82
Ii1f9	0	0	0	8	0.133333	0.035928	0.549265	Unclassified	chr2:24039995-24049087	7.093
D6Wsu163e	0	0	0	611	10.18333	6.36187	23.37836	Unclassified	chr6:126887983-126925722	35.74
Eps813	0	0	0	29	0.483333	0	0.352067	Unclassified	chr3:107678147-107695817	15.671
Trp53i13	0	0	0	295	4.916667	4.69015	4.913854	Unclassified	chr11:77321600-77328775	5.176
Taok1	0	0	0	1160	19.33333	1.94884	44.7592	Unclassified	chr11:77342663-77423317	78.655
Fbn1	0	0	0	212	3.533333	0.059551	3.006208	Unclassified	chr2:125126329-125334174	205.846
Wap	0	0	0	12	0.2	0.068415	0.472949	Unclassified	chr11:6535485-6540652	3.168
Gm364	0	0	0	19	0.316667	0.023778	0	Unclassified	chrX:54660330-54741944	79.615
Vtn	0	0	0	21	0.35	0.02183	0.384785	Unclassified	chr11:78310621-78315827	3.207
Gpr101	0	0	0	6	0.1	0.021329	4.294682	Unclassified	chrX:54749846-54758934	7.089
Cct2	0	0	0	949	15.81667	106.67	6.457393	Unclassified	chr10:116488053-116502870	12.818
Ubt2	0	0	0	321	5.35	1.36321	32.42243	Stalled	chr11:32353371-32418709	63.339
Olf1906	0	0	0	2	0.033333	0	1	Unclassified	chr9:38293615-38296551	0.937
Olf1220	0	0	0	0	0	0	0	Unclassified	chr2:88937094-88940120	1.027
Gstk1	0	0	0	27	0.45	2.12227	18.67613	Stalled	chr6:42193933-42200440	4.508
Olf1812	0	0	0	1	0.016667	0.016562	1	Unclassified	chr10:129279163-129282096	0.934
Olf1263	0	0	0	2	0.033333	0	1	Unclassified	chr2:89853088-89856009	0.922
Olf1502	0	0	0	2	0.033333	0.009494	2	Unclassified	chr19:13934284-13937235	0.952
Olf1499	0	0	0	2	0.033333	0	1	Unclassified	chr19:13889133-13892078	0.946
Olf1878	0	0	0	0	0	0	0	Unclassified	chr9:37724132-37727195	1.064
Olf1904	0	0	0	0	0	0	0	Unclassified	chr9:38269627-38272560	0.934
Cpa1	0	0	0	6	0.1	0	0	Unclassified	chr6:30587220-30595361	6.142
Cml1	0	0	0	206	3.433333	2.64515	24.90213	Stalled	chr6:85860148-85867671	5.524
Lrat	0	0	0	12	0.2	0.074277	0	Unclassified	chr3:82696503-82709896	11.394
Ndfip2	0	0	0	339	5.65	5.37642	38.57191	Stalled	chr14:105656020-105708490	50.471
Ttc17	0	0	0	972	16.2	3.73449	38.23331	Unclassified	chr2:94140922-94248846	105.925
Ces8	0	0	0	26	0.433333	0.131747	0.858844	Unclassified	chr8:107653699-107674008	18.31
Mfn2	0	0	0	758	12.63333	10.3311	4.216196	Unclassified	chr4:147247703-147280928	31.226
Klra17	0	0	0	8	0.133333	0	0	Unclassified	chr6:129781171-129828688	45.518
Zscan5b	0	0	0	11	0.183333	0	0	Unclassified	chr7:6171879-6191014	17.136
Arr3	0	0	0	29	0.483333	0.019717	0	Unclassified	chrX:97798894-97813832	12.939

Hectd1	0	0	0	1469	24.48333	13.6164	19.95137	Unclassified	chr12:52844708-52932523	85.816
Olf1217	0	0	0	0	0	0.030861	0	Unclassified	chr2:88863243-88866158	0.916
Unc84a	0	0	0	445	7.416667	5.07541	16.16926	Unclassified	chr5:139674623-139725749	49.127
Krt76	0	0	0	14	0.233333	0.049891	0	Unclassified	chr15:101714781-101725351	8.571
Tmco4	0	0	0	1954	32.56667	11.9391	26.78943	Unclassified	chr4:138526819-138615086	86.268
Ston1	0	0	0	31	0.516667	0.176035	0.822757	Unclassified	chr17:89023894-89045064	19.171
Mdk	0	0	0	96	1.6	1.24196	2.724816	Unclassified	chr2:91769978-91774439	2.462
Olf1361	0	0	0	2	0.033333	0.09404	1	Unclassified	chr13:21750236-21753190	0.955
Olf777	0	0	0	1	0.016667	0	1	Unclassified	chr10:128705441-128708377	0.937
Olf1360	0	0	0	0	0	0.01957	0	Unclassified	chr13:21765869-21768849	0.981
Olf315	0	0	0	3	0.05	0.082686	3	Unclassified	chr11:58589630-58592560	0.931
Olf311	0	0	0	2	0.033333	0.049975	0	Unclassified	chr11:58652617-58655544	0.928
Exoc2	0	0	0	1123	18.71667	4.94166	17.29488	Unclassified	chr13:30905786-31067916	160.131
Olf576	0	0	0	2	0.033333	0	1	Unclassified	chr7:110111615-110114554	0.94
Olf1518	0	0	0	0	0	0	0	Unclassified	chr10:128685591-128688530	0.94
Eif4ebp1	0	0	0	503	8.383333	35.798	4.703042	Unclassified	chr8:28368798-28386128	15.331
Ppt1	0	0	0	548	9.133333	9.11688	4.800464	Unclassified	chr4:122511484-122536418	22.935
Ppyr1	0	0	0	7	0.116667	0.01347	0.590793	Unclassified	chr14:34958831-34967605	6.775
Ppy	0	0	0	4	0.066667	0.053401	1	Unclassified	chr11:101961244-101964614	1.371
Eps15	0	0	0	684	11.4	7.69244	21.42332	Unclassified	chr4:108950879-109060415	107.537
Gm438	0	0	0	13	0.216667	0.06265	0.964386	Unclassified	chr4:144367106-144378486	9.381
Cbr4	0	0	0	161	2.683333	8.35296	21.8972	Stalled	chr8:63964530-63982297	15.768
BC027072	0	0	0	18	0.3	0.015361	2.048987	Unclassified	chr17:72092894-72104225	9.332
Otud7a	0	0	0	258	4.3	0.114795	2.21674	Unclassified	chr7:70587657-70903913	314.257
Podn1	0	0	0	104	1.733333	0.104749	0.33675	Unclassified	chr8:86647887-86656416	6.53
V1rg4	0	0	0	1	0.016667	0.02629	1	Unclassified	chr7:12515659-12518634	0.976
Mdh1b	0	0	0	85	1.416667	0.067454	31.92163	Stalled	chr1:63745401-63778892	31.492
Apoa5	0	0	0	15	0.25	0.121469	0.302096	Unclassified	chr9:46074690-46080002	3.313
Clage5	0	0	0	1211	20.18333	11.8765	0.048732	Unclassified	chr12:60228732-60291207	60.476
Mre11a	0	0	0	1056	17.6	7.46955	31.41442	Unclassified	chr9:14587150-14638861	49.712
38966	0	0	0	955	15.91667	23.2658	41.0987	Unclassified	chr9:25058168-25116150	55.983
Hmgcs2	0	0	0	54	0.9	0.054504	0.758198	Unclassified	chr3:98082353-98114659	30.307
Lin37	0	0	0	204	3.4	18.5369	3.931328	Unclassified	chr7:31340459-31346665	4.207
Trpa1	0	0	0	32	0.533333	0.081173	0.601149	Unclassified	chr1:14862728-14910943	46.216
C8a	0	0	0	54	0.9	0.037037	1.078741	Unclassified	chr4:104488286-104551003	60.718
Mertk	0	0	0	131	2.183333	0.104549	0	Unclassified	chr2:128522732-128627924	103.193
Lrg1	0	0	0	10	0.166667	0.094725	0.405104	Unclassified	chr17:56259100-56263369	2.27
Olf1247	0	0	0	1	0.016667	0	1	Unclassified	chr2:89449312-89452257	0.946
Meis2	0	0	0	135	2.25	0.251468	0	Unclassified	chr2:115686999-115892794	203.796
Phf16	0	0	0	87	1.45	2.0737	0.398745	Unclassified	chrX:20035652-20095022	57.371
Rbm3	0	0	0	1367	22.78333	36.9103	3.304065	Unclassified	chrX:7716100-7724928	6.829
Ctr9	0	0	0	367	6.116667	7.52827	27.77052	Unclassified	chr7:118170464-118199891	27.428
Klra7	0	0	0	7	0.116667	0	0	Unclassified	chr6:130168622-130185340	14.719
Tsg101	0	0	0	664	11.06667	5.89197	43.84692	Unclassified	chr7:54144396-54177300	30.905
Plek2	0	0	0	140	2.333333	0.206582	0.930526	Unclassified	chr12:79989683-80009925	18.243
Syce1	0	0	0	14	0.233333	0.113796	2.1845	Unclassified	chr7:147963128-147975753	10.626
Gzme	0	0	0	2	0.033333	0.086497	0.667553	Unclassified	chr14:56736455-56741462	3.008
Cst9	0	0	0	3	0.05	0.074731	1.443207	Unclassified	chr2:148658882-148664473	3.592
Olf1226	0	0	0	0	0	0	0	Unclassified	chr2:89033256-89036189	0.934
1810011O10Rik	0	0	0	1	0.016667	0.125178	1	Unclassified	chr8:25548087-25551418	1.332
Pnlp	0	0	0	7	0.116667	0.068951	0	Unclassified	chr19:58742854-58756278	11.425
4931432M23Rik	0	0	0	16	0.266667	0.044501	1.662058	Unclassified	chr8:98083191-98101097	15.907
1810014F10Rik	0	0	0	41	0.683333	1.86218	6.504811	Unclassified	chr7:147285368-147290305	2.938
Rdx	0	0	0	626	10.43333	20.6933	17.0128	Unclassified	chr9:51854045-51896843	40.799
Rfc1	0	0	0	906	15.1	8.91622	16.86575	Unclassified	chr5:65653090-65728878	73.789
Gm7609	0	0	0	24	0.4	1.68978	5.229197	Unclassified	chr1:85194185-85210337	14.153
Rdh16	0	0	0	10	0.166667	0.04592	0.603315	Unclassified	chr10:127236208-127252895	14.688
Rdh5	0	0	0	57	0.95	0.325494	1.282554	Unclassified	chr10:128350646-128358353	5.708
Dgat2l6	0	0	0	9	0.15	0	2.406458	Unclassified	chrX:97718176-97741447	21.272
Olf980	0	0	0	1	0.016667	0.013704	0	Unclassified	chr9:39813599-39816532	0.934
Olf974	0	0	0	2	0.033333	0	2	Unclassified	chr9:39747846-39750779	0.934
Olf979	0	0	0	0	0	0.020523	0	Unclassified	chr9:39807874-39810810	0.937
Olf577	0	0	0	2	0.033333	0.027298	1	Unclassified	chr7:110121565-110124504	0.94
Olf570	0	0	0	2	0.033333	0	2	Unclassified	chr7:110046882-110049821	0.94
Olf586	0	0	0	0	0	0	0	Unclassified	chr7:110270342-110273296	0.955
Olf559	0	0	0	1	0.016667	0.033433	1	Unclassified	chr7:109872045-109875002	0.958
Olf575	0	0	0	0	0	0	0	Unclassified	chr7:110103177-110106134	0.958
Olf578	0	0	0	1	0.016667	0.027211	1	Unclassified	chr7:110132734-110135676	0.943
Foxc1	0	0	0	43	0.716667	1.54615	0.453305	Unclassified	chr13:31896514-31902504	3.991
Foxd2	0	0	0	139	2.316667	1.26237	26.67372	Stalled	chr4:114578884-114583503	2.62
Rps6ka4	0	0	0	244	4.066667	10.1169	9.156353	Unclassified	chr19:6903573-6917091	11.519
Mfge8	0	0	0	79	1.316667	6.58532	10.58939	Stalled	chr7:86278653-86295946	15.294
Net1	0	0	0	519	8.65	18.081	8.523029	Unclassified	chr13:3881808-3894824	11.017
Hsd17b12	0	0	0	1273	21.21667	23.2449	23.17799	Unclassified	chr2:93872853-94000066	125.214
Mgat3	0	0	0	63	1.05	0.068683	0.404762	Unclassified	chr15:80002150-80045949	41.8
Olf1250	0	0	0	1	0.016667	0.032703	1	Unclassified	chr2:89496651-89499596	0.946
Clec4e	0	0	0	13	0.216667	0.442644	3.248548	Unclassified	chr6:123231806-123241889	8.084
Rims2	0	0	0	232	3.866667	0.125493	4.103768	Unclassified	chr15:39027877-39513486	483.61
Olf1138	0	0	0	3	0.05	0	2	Unclassified	chr2:87577543-87580479	0.937
Meaf6	0	0	0	589	9.816667	11.1741	27.40265	Unclassified	chr4:124760390-124787133	24.744
Lysmd2	0	0	0	71	1.183333	1.4632	12.60509	Stalled	chr9:75471538-75485580	12.043
2210010C17Rik	0	0	0	30	0.5	0	0	Unclassified	chr7:20522653-20538092	13.44
Cysltr2	0	0	0	48	0.8	0.301301	3.452998	Unclassified	chr14:73428935-73450921	19.987
Cuzd1	0	0	0	19	0.316667	0.051129	1.377794	Unclassified	chr7:138452067-138467806	13.74
Itm2b	0	0	0	619	10.31667	87.3562	12.38317	Unclassified	chr14:73762038-73787078	23.041
Itm2a	0	0	0	13	0.216667	3.12533	6.326681	Unclassified	chrX:104592533-104600699	6.167

Olf1151	0	0	0	0	0	0	0	Unclassified	chr2:87695333-87698260	0.928
Olf1155	0	0	0	1	0.016667	0.040687	0	Unclassified	chr2:87782838-87785783	0.946
Snapc4	0	0	0	486	8.1	8.21182	5.907393	Unclassified	chr2:26218295-26238139	17.845
Cpeb2	0	0	0	575	9.583333	1.96791	37.60954	Stalled	chr5:43623197-43677429	52.233
AF366264	0	0	0	4	0.066667	0.045326	4	Unclassified	chr8:13835230-13840089	2.86
Ssr4	0	0	0	573	9.55	127.68	7.79442	Unclassified	chrX:71030481-71036166	3.686
Mfap1b	0	0	0	187	3.116667	15.2363	64.61232	Stalled	chr2:121287401-121301759	12.359
Znrf4	0	0	0	11	0.183333	0.186646	0.529727	Unclassified	chr17:56650670-56653906	1.237
Arhgap15	0	159.6624	0	3170	52.833333	6.79453	3.545401	Unclassified	chr2:43602343-44243143	638.801
Atp2c2	0	0	0	134	2.233333	0.286309	1.577839	Unclassified	chr8:122221908-122281618	57.711
Dctn3	0	0	0	244	4.066667	29.6623	11.69644	Unclassified	chr4:41661829-41672195	8.367
Slc38a7	0	0	0	136	2.266667	2.06945	4.087182	Unclassified	chr8:98359822-98379391	17.57
Daam2	0	0	0	173	2.883333	0.097527	0.388384	Unclassified	chr17:49595346-49705662	108.317
Ldoc1l	0	0	0	132	2.2	6.37221	5.274865	Unclassified	chr15:84383827-84390253	4.427
Olf153	0	0	0	1	0.016667	0.084701	0	Unclassified	chr7:147835879-147838818	0.94
Fibin	0	0	0	2	0.033333	0.05575	1	Unclassified	chr2:110201081-110205150	2.07
5031439G07Rik	0	0	0	584	9.733333	7.63481	16.87502	Unclassified	chr15:84776149-84820401	42.253
Rbm6	0	0	0	1190	19.833333	7.84085	56.50007	Unclassified	chr9:107675890-107777150	99.261
Mmd2	0	0	0	61	1.016667	0.077473	0.865781	Unclassified	chr5:143039434-143086706	45.273
Klra5	0	0	0	4	0.066667	0	0	Unclassified	chr6:129849008-129865242	14.235
9930032O22Rik	0	0	0	25	0.416667	0.026775	0	Unclassified	chr5:86914901-86949625	32.725
P4ha3	0	0	0	60	1	0.105891	1.505103	Unclassified	chr7:107432029-107468208	34.18
Tmtc4	0	0	0	397	6.616667	0.78259	42.64022	Stalled	chr14:123318196-123384483	64.288
Mmsp	0	0	0	68	1.133333	0	0.395577	Unclassified	chr4:43596087-43599366	1.28
Wdr46	0	0	0	482	8.033333	24.405	3.895225	Unclassified	chr17:34075667-34086640	8.974
Galnt14	0	0	0	274	4.566667	0.275341	4.098184	Unclassified	chr17:73843090-74061791	216.702
Ephx3	0	0	0	42	0.7	0.219979	4.052551	Unclassified	chr17:32320714-32328408	5.695
Gypc	0	0	0	1636	27.26667	18.1056	4.33648	Unclassified	chr18:32687973-32721688	31.716
Wdr27	0	0	0	409	6.816667	0.097551	125.3123	Stalled	chr17:14955678-15082129	124.452
Bai3	0	0	0	355	5.916667	0.041777	0.683804	Unclassified	chr1:25124320-25888552	762.233
Niacr1	0	0	0	7	0.116667	0.191782	0.715156	Unclassified	chr5:124313580-124317518	1.939
Maged2	0	0	0	13	0.216667	0.978724	0	Unclassified	chrX:147240963-147250825	7.863
Senp3	0	0	0	496	8.266667	28.9134	12.88816	Unclassified	chr11:69486613-69497472	8.86
Ntnng1	0	0	0	208	3.466667	0.553181	1.919537	Unclassified	chr3:109582967-109948390	363.424
Olf1193	0	0	0	0	0	0	0	Unclassified	chr2:88516013-88518970	0.958
Olf1036	0	0	0	0	0	0.020589	0	Unclassified	chr2:85912898-85915831	0.934
Zfp281	0	0	0	225	3.75	5.48544	7.311924	Unclassified	chr1:138519477-138526968	5.492
Fert2	0	0	0	179	2.983333	0.293992	0.578047	Unclassified	chr17:64243366-64488843	243.478
Cntnap5a	0	0	0	368	6.133333	0.045831	0	Unclassified	chr1:117579713-118477251	895.539
Ttc5	0	0	0	199	3.316667	11.0825	8.091857	Unclassified	chr14:51385089-51407193	20.105
Fech	0	0	0	341	5.683333	2.76756	32.84642	Stalled	chr18:64616203-64650720	32.518
Atp5g3	0	0	0	447	7.45	279.198	9.558837	Unclassified	chr2:73746506-73751351	2.846
Krt35	0	0	0	7	0.116667	0	0.335842	Unclassified	chr11:99953505-99959538	4.034
Nid2	0	0	0	211	3.516667	1.40812	4.514824	Unclassified	chr14:20568478-20631009	60.532
Olf1631	0	0	0	8	0.133333	0.077466	1.395496	Unclassified	chr7:111061575-111078425	14.851
D230037D09Rik	0	0	0	369	6.15	13.7934	7.097688	Unclassified	chr12:103979969-103983607	1.639
Nt5c1b	0	0	0	14	0.233333	0.013818	0.596336	Unclassified	chr12:10374776-10396980	20.205
Cyp2g1	0	0	0	12	0.2	0.02075	1.059797	Unclassified	chr7:27591945-27606216	12.272
Dmrtc1a	0	0	0	0	0	0	0	Unclassified	chrX:100098559-100106026	5.468
Iyd	0	0	0	18	0.3	0.066578	0.492754	Unclassified	chr10:6791663-6808262	14.6
Cyp2d9	0	0	0	4	0.066667	0.024759	0	Unclassified	chr15:82280806-82287257	4.452
Cyp2e1	0	0	0	8	0.133333	0.014765	1.339803	Unclassified	chr7:147947730-147960876	11.147
Cyp2f2	0	0	0	18	0.3	0	0.427744	Unclassified	chr7:27902973-27918679	13.707
Cyp2d10	0	0	0	7	0.116667	0.030992	0	Unclassified	chr15:82233275-82239624	4.35
Zfp597	0	0	0	181	3.016667	2.45937	18.48352	Stalled	chr16:3861543-3874374	10.832
Oit1	0	0	0	41	0.683333	0.02049	1.751341	Unclassified	chr14:9181461-9213277	29.817
Mtpn	0	0	0	537	8.95	29.9918	16.48745	Unclassified	chr6:35458823-35491888	31.066
E130201H02Rik	0	0	0	1	0.016667	35.859	1	Unclassified	chr7:127739138-127741988	0.851
Ppp1r12a	0	0	0	1450	24.16667	12.8642	51.75249	Unclassified	chr10:107597455-107714631	115.177
Sbpl	0	0	0	4	0.066667	0.094873	2	Unclassified	chr17:24090051-24094240	2.19
Myt1l	0	0	0	318	5.3	0.042778	0.554821	Unclassified	chr12:30211248-30608074	394.827
Myt1	0	0	0	67	1.116667	0.026064	0	Unclassified	chr2:181499746-181562473	60.728
Cetn4	0	0	0	80	1.333333	0.894477	54.63334	Stalled	chr3:37207548-37213368	3.821
Fam20a	0	0	0	121	2.016667	0.116008	1.808697	Unclassified	chr11:109534239-109585570	49.332
Fzd8	0	0	0	13	0.216667	0.21846	1.254682	Unclassified	chr18:9210853-9216197	3.345
Fzd9	0	0	0	86	1.433333	1.09334	1.626141	Elongating	chr5:135724807-135728917	2.111
Ganab	0	0	0	770	12.833333	36.6055	13.19205	Unclassified	chr19:8970600-8991155	18.556
G6pc	0	0	0	7	0.116667	0.034253	0	Unclassified	chr11:101227043-101239217	10.175
Chodl	0	0	0	16	0.266667	0.03546	1.810323	Unclassified	chr16:78929192-78951973	20.782
Slc36a2	0	0	0	48	0.8	0.144837	1.119835	Unclassified	chr11:54971969-55000579	26.611
Ccl9	0	0	0	10	0.166667	0.262021	0	Unclassified	chr11:83386418-83394138	5.721
Saa3	0	0	0	30	0.5	49.0636	0.417445	Unclassified	chr7:53967367-53973046	3.68
Mtap4	0	0	0	1134	18.9	15.5515	33.78458	Unclassified	chr9:109832277-109986451	152.175
Ccl5	0	0	0	99	1.65	14.5018	3.191919	Unclassified	chr11:83339280-83346020	4.741
Ccl6	0	0	0	4	0.066667	0.080325	0.583507	Unclassified	chr11:83401387-83408589	5.203
Ccl7	0	0	0	2	0.033333	0.144726	0.447819	Unclassified	chr11:81857213-81861023	1.811
Kndc1	0	0	0	85	1.416667	0.038609	1.084291	Unclassified	chr7:147078594-147127439	46.846
Ccl3	0	0	0	18	0.3	1.46009	1.270004	Unclassified	chr11:83461344-83464880	1.537
Ppp1r3g	0	0	0	11	0.183333	0.979566	4.175141	Unclassified	chr13:36057774-36062251	2.478
D930020B18Rik	0	0	0	68	1.133333	0.695501	3.894122	Unclassified	chr10:121076756-121130970	52.215
Stap2	0	0	0	35	0.583333	0.16332	6.328265	Unclassified	chr17:56136501-56146991	8.491
Rbp1	0	0	0	52	0.866667	1.02439	0.649251	Unclassified	chr9:98321379-98346969	23.591
Ola1	0	0	0	1026	17.1	15.4091	37.40923	Unclassified	chr2:72930857-73054504	121.648
Dgkk	0	0	0	33	0.55	0.023283	1.69706	Unclassified	chrX:6354431-6525489	169.059
Tmem5	0	0	0	193	3.216667	6.39835	37.60355	Stalled	chr10:121518315-121536158	15.844
Adcy1	0	0	0	120	2	0.026139	0	Unclassified	chr11:6961491-7078508	115.018

1700019N19Rik	0	0	0	11	0.183333	0	0	Unclassified	chr19:58860292-58870904	8.613
Pri7c1	0	0	0	2	0.033333	0	0.86322	Unclassified	chr13:27865363-27874673	7.311
Rnf151	0	0	0	250	4.166667	0.258916	4.356028	Unclassified	chr17:24852784-24857002	2.219
4921517D21Rik	0	0	0	15	0.25	0.044936	0.427898	Unclassified	chr9:107828799-107834792	3.994
Nkap	0	0	0	217	3.616667	4.41719	19.34813	Stalled	chrX:34664757-34690741	23.985
Ccdc50	0	0	0	657	10.95	9.30737	17.0115	Unclassified	chr16:27387062-27452304	63.243
Ubxn2a	0	0	0	441	7.35	4.12065	33.68187	Unclassified	chr12:4885837-4916326	28.49
Rundc3b	0	0	0	128	2.133333	1.82015	13.1837	Stalled	chr5:8490335-8624952	132.618
Proz	0	0	0	149	2.483333	0.561182	0.250159	Unclassified	chr8:13058907-13075006	14.1
6330409N04Rik	0	0	0	248	4.133333	4.8336	49.16276	Stalled	chr14:62153141-62177723	22.583
Ccnh	0	0	0	285	4.75	8.88452	17.75199	Unclassified	chr13:85327081-85353328	24.248
Lmo1	0	0	0	54	0.9	0.155567	0.761426	Unclassified	chr7:116282085-116315822	31.738
Mt3	0	0	0	2	0.033333	0.453646	2	Unclassified	chr8:96674506-96678046	1.541
C86695	0	0	0	4	0.066667	0	0	Unclassified	chr8:23067185-23074775	5.591
Lmo3	0	0	0	126	2.1	0.0244	0.633956	Unclassified	chr6:138313001-138532489	217.489
Fam70b	0	0	0	56	0.933333	0	0.666524	Unclassified	chr8:13433458-13461449	25.992
Apcs	0	0	0	4	0.066667	0.052152	3	Unclassified	chr1:174824092-174827185	1.094
Jph4	0	0	0	35	0.583333	0.469158	0	Unclassified	chr14:55725662-55737115	9.454
Mt4	0	0	0	6	0.1	0	0.171671	Unclassified	chr8:96659103-96662931	1.829
Tbc1d8b	0	0	0	118	1.966667	1.39276	27.45348	Stalled	chrX:136217534-136288757	69.224
Dsg4	0	0	0	24	0.4	0.011055	0	Unclassified	chr18:20592675-20630322	35.648
Ptprc	0	0	0	1923	32.05	38.3865	5.518722	Unclassified	chr1:139959437-140073882	112.446
Rgs4	0	0	0	8	0.133333	0.043578	0.925405	Unclassified	chr1:171671607-171679773	6.167
Mum11	0	0	0	10	0.166667	0.068006	6.306771	Unclassified	chrX:135742582-135772874	28.293
Rps15a	0	0	0	1883	31.38333	6.32319	4.591757	Unclassified	chr7:125247889-125261661	11.773
Sntn	0	0	0	5	0.083333	0	0.738117	Unclassified	chr14:14501389-14515662	12.274
Papolg	0	0	0	307	5.116667	5.51242	26.50476	Stalled	chr11:23762646-23797270	32.625
Loxl2	0	0	0	132	2.2	0.051968	1.600289	Unclassified	chr14:70007282-700995640	86.359
Usp11	0	0	0	300	5	5.19337	14.13707	Unclassified	chrX:20279034-20297665	16.632
Xylt2	0	0	0	652	10.86667	6.78923	3.263056	Unclassified	chr11:94525160-94540807	13.648
Nrcam	0	0	0	194	3.233333	0.150487	2.380613	Unclassified	chr12:45427871-45702833	272.963
Syt15	0	0	0	45	0.75	0.057942	0.182514	Unclassified	chr14:35031231-35043607	10.377
Ranbp17	0	0	0	244	4.066667	0.039055	11.9913	Stalled	chr11:33111793-33415746	301.954
Spata20	0	0	0	13	0.216667	0.069304	0.435848	Unclassified	chr11:94340217-94348624	6.408
Gramd1c	0	0	0	135	2.25	1.61649	9.474881	Unclassified	chr16:43980467-44018472	36.006
Kihdc7a	0	0	0	7	0.116667	0.030651	0	Unclassified	chr4:139518087-139525941	5.855
Foxn4	0	0	0	38	0.633333	0.012946	0	Unclassified	chr5:114704172-114725770	19.599
Hoxc5	0	0	0	6	0.1	0.12206	0.893601	Unclassified	chr15:102842438-102847860	3.423
Hoxc9	0	0	0	18	0.3	0.678467	0.99114	Unclassified	chr15:102805462-102814875	7.414
Hmgb3	0	0	0	225	3.75	7.97051	22.3642	Stalled	chrX:68807167-68813829	4.663
Hmg20b	0	0	0	251	4.183333	24.03	3.956519	Unclassified	chr10:80808792-80815172	4.381
Hoxc4	0	0	0	4	0.066667	0.380964	0	Unclassified	chr15:102862825-102867283	2.459
AU021092	0	0	0	19	0.316667	0.074785	0	Unclassified	chr16:5211912-5224392	10.481
Krtap13-1	0	0	0	1	0.016667	0	1	Unclassified	chr16:88727106-88729856	0.751
Nrip1	0	0	0	996	16.6	1.79404	21.15703	Unclassified	chr16:76291106-76375294	82.189
Robo2	0	0	0	218	3.633333	0.02389	1.416924	Unclassified	chr16:73892550-74413157	518.608
Adamts13	0	0	0	129	2.15	0.145513	3.485921	Unclassified	chr2:26826935-26865145	36.211
Gm711	0	0	0	652	10.86667	0.189084	4.628143	Unclassified	chr2:26787588-26809016	19.429
R3hdml	0	0	0	12	0.2	0.093721	0	Unclassified	chr2:163316053-163328348	10.296
Tyrobp	0	0	0	54	0.9	1.69828	0.495902	Unclassified	chr7:31196806-31202598	3.793
Sic8a3	0	0	0	111	1.85	0.049264	0.551933	Unclassified	chr12:82298901-82436167	135.267
Sic8a2	0	0	0	106	1.766667	0.111973	0.830977	Unclassified	chr7:16713648-16745860	30.213
Atp8a2	0	0	0	405	6.75	0.048692	1.044208	Unclassified	chr14:60266577-60707671	439.095
Dlc1	0	0	0	45	0.75	0.084097	2.65068	Unclassified	chr8:37630798-37678928	46.131
Sic9a4	0	0	0	36	0.6	0.04024	2.49068	Unclassified	chr1:40635071-40687576	50.506
Solh	0	0	0	131	2.183333	10.0391	0.559917	Unclassified	chr17:26096500-26104450	5.951
Fbxo17	0	0	0	91	1.516667	0.652538	3.70623	Unclassified	chr7:29499808-29523159	21.352
4930402H24Rik	0	0	0	403	6.716667	0.865064	15.22216	Stalled	chr2:130533588-130667846	132.259
Uaca	0	0	0	121	2.016667	0.159191	2.143926	Unclassified	chr9:60640354-60728177	85.824
Sic30a8	0	0	0	21	0.35	0.013448	0.673439	Unclassified	chr15:52125107-52167288	40.182
Naalad2	0	0	0	39	0.65	0.047644	0.619654	Unclassified	chr9:18127464-18192372	62.909
Bbs5	0	0	0	72	1.2	3.20508	11.87259	Stalled	chr2:69483311-69505626	20.316
Lin9	0	0	0	772	12.86667	2.05565	38.22618	Unclassified	chr1:182569464-182620818	49.355
Pat1	0	0	0	703	11.71667	7.03852	19.702	Unclassified	chr19:11984888-12019585	32.698
Plac1l	0	0	0	6	0.1	0.170863	0	Unclassified	chr19:11721773-11737049	13.277
Gm97	0	0	0	12	0.2	0	0.57992	Unclassified	chr19:11769544-11786348	14.805
A3galt2	0	0	0	38	0.633333	0.117094	1.220506	Unclassified	chr4:128434501-128446542	10.042
Phf21a	0	0	0	1179	19.65	4.15257	25.97964	Unclassified	chr2:92022338-92204823	180.486
Defa-ps1	0	0	0	1	0.016667	0	0	Unclassified	chr8:22803483-22806325	0.843
Hbs1l	0	0	0	1092	18.2	13.1119	8.067511	Unclassified	chr10:21013784-21088695	72.912
Stub1	0	0	0	445	7.416667	27.2708	3.418001	Unclassified	chr17:25967580-25972306	2.727
Tubd1	0	0	0	435	7.25	5.65256	51.24101	Stalled	chr11:86356509-86380862	22.354
Pygl	0	0	0	56	0.933333	1.29453	7.665554	Unclassified	chr12:71291801-71330670	36.87
Phka2	0	0	0	240	4	2.67893	30.59734	Stalled	chrX:156938621-157029654	89.034
Ptger3	0	0	0	48	0.8	0.342601	0.625614	Unclassified	chr3:157227855-157307722	77.868
Bves	0	0	0	52	0.866667	0.023926	0.40206	Unclassified	chr10:45053567-45089514	33.948
Pter	0	0	0	146	2.433333	0.936203	14.45702	Stalled	chr2:12843667-12925080	79.414
Ptf1a	0	0	0	7	0.116667	0.127653	3	Unclassified	chr2:19365289-19369126	1.838
Ptldr	0	0	0	8	0.133333	0.036183	3.521002	Unclassified	chr14:45470909-45481050	8.142
Ptgd3	0	0	0	28	0.466667	0.047763	0.904263	Unclassified	chr2:25322231-25327269	3.039
Ptpn3	0	0	0	354	5.9	0.571437	6.651073	Unclassified	chr4:57203712-57316709	110.998
Samd1	0	0	0	304	5.066667	19.2249	2.110957	Elongating	chr8:86519570-86524285	2.716
Wnt5a	0	0	0	16	0.266667	0.077984	0	Unclassified	chr14:29316658-29338620	19.963
Wnt3a	0	0	0	75	1.25	0.027973	0.733609	Unclassified	chr11:59061545-59106253	42.709
Wnt4	0	0	0	117	1.95	0.034922	0.274636	Unclassified	chr4:136831549-136852694	19.146
Wnt3	0	0	0	80	1.333333	0.218063	2.238507	Unclassified	chr11:103633488-103679335	43.848

Tub	0	0	0	35	0.583333	0.038831	1.241146	Unclassified	chr7:116152393-116177973	23.581
3300002I08Rik	0	0	0	310	5.166667	11.8903	5.163901	Unclassified	chr2:150136672-150190501	51.83
Sec62	0	0	0	400	6.666667	14.1806	13.43133	Unclassified	chr3:30689797-30720185	28.389
Kti12	0	0	0	227	3.783333	35.1657	12.36765	Unclassified	chr4:108518461-108522017	1.557
Slc7a6	0	0	0	738	12.3	6.44529	24.78755	Unclassified	chr8:108690774-108722604	29.831
Tnks1bp1	0	0	0	277	4.616667	3.97023	1.446889	Elongating	chr2:84888616-84913205	22.59
Thbs4	0	0	0	49	0.186667	0.073423	0.468044	Unclassified	chr13:93521541-93566773	43.233
4930550L24Rik	0	0	0	2	0.033333	0.016306	0.886942	Unclassified	chrX:56162637-56173481	8.845
Dse	0	0	0	221	3.683333	2.04084	16.42329	Stalled	chr10:33871198-33929357	56.16
Spag4l	0	0	0	21	0.35	0.044386	1.349301	Unclassified	chr2:153681925-153698820	14.896
Tgtp	0	0	0	7	0.116667	1.7106	1.193467	Unclassified	chr11:48798830-48807748	6.919
Ift88	0	0	0	239	3.983333	1.26892	47.53282	Stalled	chr14:58040907-58136774	93.868
Thbs2	0	0	0	36	0.6	0.019478	1.370746	Unclassified	chr17:14802506-14833269	28.764
Thbs1	0	0	0	26	0.433333	0.258447	1.17745	Unclassified	chr2:117935657-117952869	15.213
Enox2	0	0	0	334	5.566667	2.11657	67.92532	Stalled	chrX:46363698-46643419	277.722
Mrpl19	0	0	0	319	5.316667	6.14632	3.287754	Unclassified	chr6:81907839-81917943	8.105
Wbscr16	0	0	0	790	13.16667	9.38061	6.471764	Unclassified	chr5:134623927-134654637	28.711
Mrpl37	0	0	0	484	8.066667	23.8804	13.32574	Unclassified	chr4:106728478-106741471	10.994
Rabgap1l	0	45.90295	0	5465	91.08333	11.2792	40.25572	Unclassified	chr1:162149304-162725069	573.766
Olfr216	0	0	0	1	0.016667	0	0	Unclassified	chr11:58477062-58480046	0.985
E130203B14Rik	0	0	0	102	1.7	0.112137	1.364258	Unclassified	chr14:33667941-33752675	82.735
Tmco7	0	0	0	1072	17.86667	2.8832	35.24956	Unclassified	chr8:109204967-109375339	168.373
Ace	0	0	0	45	0.75	0.120686	1.05	Unclassified	chr11:105827260-105851259	22
Apoc4	0	0	0	9	0.15	0	0.249249	Unclassified	chr7:20263442-20266765	3.324
Ttyh1	0	0	0	94	1.566667	0.305063	0.300067	Unclassified	chr7:4069134-4087843	16.71
Usp29	0	0	0	148	2.466667	0.052533	1.234562	Unclassified	chr7:6681451-6919931	236.481
Mog	0	0	0	18	0.3	0.060065	1.478445	Unclassified	chr17:37147684-37162343	12.66
Mab211l	0	0	0	10	0.166667	0.858113	0.457385	Unclassified	chr3:55584431-55589209	2.779
Carhsp1	0	0	0	557	9.283333	7.92481	7.170078	Unclassified	chr16:8658679-8674246	13.568
Lyz1	0	0	0	5	0.083333	0.581733	0.575912	Unclassified	chr10:116724851-116731924	5.074
Zfp870	0	0	0	223	3.716667	1.71548	10.54959	Unclassified	chr17:33016165-33030548	12.384
Dgcr6	0	0	0	129	2.15	11.0662	0.757517	Unclassified	chr16:18050952-18071435	18.484
Zfp811	0	0	0	27	0.45	0.413966	2.655518	Unclassified	chr17:32933955-32948864	12.91
Rad54l2	0	0	0	874	14.56667	4.59272	20.37578	Unclassified	chr9:106590410-106693544	101.135
Dgcr2	0	0	0	1051	17.51667	16.2956	13.73179	Unclassified	chr16:17840450-17893821	51.372
Dmrtc1b	0	0	0	2	0.033333	0	0	Unclassified	chrX:99901219-99910547	7.329
Zfp563	0	0	0	216	3.6	1.58386	6.379898	Unclassified	chr17:33224311-33247649	21.339
Morc2b	0	0	0	6	0.1	0.124259	0	Unclassified	chr17:33272534-33278628	4.095
Rcan2	0	0	0	194	3.233333	0.236894	1.671901	Unclassified	chr17:43936799-44176465	237.667
Rcan3	0	0	0	266	4.433333	1.76228	25.42154	Stalled	chr4:134968223-134991720	21.498
Phgr1	0	0	0	12	0.2	0	1.543213	Unclassified	chr2:118596504-118603900	5.397
Gmds	0	0	0	1457	24.28333	11.1759	42.00535	Stalled	chr13:31911454-32432413	518.96
Tcf15	0	0	0	21	0.35	0.040687	0	Unclassified	chr2:180356663-180379396	20.734
Ccdc67	0	0	0	112	1.866667	0.09321	2.338721	Unclassified	chr9:15364307-15434377	68.071
A130022J15Rik	0	0	0	257	4.283333	1.91509	17.32142	Stalled	chr6:97060937-97100877	37.941
Mmrn2	0	0	0	33	0.55	0.022805	1.579115	Unclassified	chr14:35186689-35217472	28.784
Oas1h	0	0	0	13	0.216667	0.086829	0	Unclassified	chr5:121309430-121323512	12.083
Oas2	0	0	0	146	2.433333	2.19264	4.390591	Unclassified	chr5:121180342-121201857	19.516
4930567H17Rik	0	0	0	1	0.016667	0.044402	0	Unclassified	chrX:67647075-67649915	0.841
Ngb	0	0	0	29	0.483333	0.301154	2.894503	Unclassified	chr12:88438480-88445489	5.01
Cox7a2l	0	0	0	387	6.45	95.752	5.999321	Unclassified	chr17:83901256-83915673	12.418
Sftpd	0	0	0	8	0.133333	0.203127	0.631327	Unclassified	chr14:41985501-42000487	12.987
Agbl2	0	0	0	184	3.066667	0.05553	19.09505	Stalled	chr2:90620900-90656388	33.489
Wfikkn2	0	0	0	28	0.466667	0.20015	0.658902	Unclassified	chr11:94097265-94105893	6.629
Sim2	0	0	0	93	1.55	0.202547	4.557086	Unclassified	chr16:94083504-94348638	263.135
Olfr1188	0	0	0	0	0	0	0	Unclassified	chr2:88397627-88400566	0.94
Sin3b	0	0	0	734	12.23333	56.3181	11.38767	Unclassified	chr8:75245186-75282102	34.917
Hist1h2bp	0	0	0	318	5.3	0	94.71627	Unclassified	chr13:21877356-21881082	1.727
Timp2	0	0	0	113	1.883333	0.290154	3.051553	Unclassified	chr11:118162374-118218725	54.352
Pramel5	0	0	0	4	0.066667	0.022805	0	Unclassified	chr4:143860535-143872369	9.835
Zfp429	0	0	0	135	2.25	1.93803	16.46947	Stalled	chr13:67490264-67502703	10.44
Slc36a4	0	0	0	212	3.533333	1.58798	17.56036	Stalled	chr9:15512212-15543233	29.022
Duox1	0	0	0	46	0.766667	0.041355	0.410238	Unclassified	chr2:122139407-122173708	32.302
Gemin5	0	0	0	1041	17.35	9.07303	11.41104	Unclassified	chr11:57933503-57984041	48.539
Mrpl22	0	0	0	193	3.216667	10.1169	6.645461	Unclassified	chr11:57983155-57993080	7.926
Olfr286	0	0	0	5	0.083333	0	0	Unclassified	chr15:98057105-98066881	7.777
8430419L09Rik	0	0	0	251	4.183333	2.61296	8.020099	Unclassified	chr6:135146004-135186257	38.254
Hist3h2ba	0	0	0	79	1.316667	7.7475	49	Unclassified	chr11:58760412-58763032	0.621
Pgpep1	0	0	0	263	4.383333	10.281	6.527585	Unclassified	chr8:73173009-73185580	10.572
Lhfp13	0	0	0	312	5.2	0.09669	2.527029	Unclassified	chr5:22250010-22781414	529.405
Plscr2	0	0	0	49	0.186667	0.023406	7.172563	Unclassified	chr9:92168557-92192567	22.011
Arg2	0	0	0	142	2.366667	1.02859	3.416252	Unclassified	chr12:80229774-80257287	25.514
Arg1	0	0	0	135	2.25	1.2059	0.581344	Unclassified	chr10:24635012-24649276	12.265
Arf6	0	0	0	915	15.25	52.8334	10.41337	Unclassified	chr12:70471136-70476967	3.832
Arf5	0	0	0	170	2.833333	61.0775	6.483506	Unclassified	chr6:28371639-28376499	2.861
Pip1	0	0	0	11	0.183333	0.287271	0	Unclassified	chrX:133355374-133372281	14.908
Arf2	0	0	0	227	3.783333	6.5537	13.65582	Stalled	chr11:103826184-103846650	18.467
Hcn3	0	0	0	78	1.3	0.97851	4.962811	Unclassified	chr3:88950696-88966079	13.384
Ankrd9	0	0	0	191	3.183333	2.07384	7.723377	Unclassified	chr12:112213562-112219231	3.67
Serpind1	0	0	0	77	1.283333	0	0.545138	Unclassified	chr16:17329463-17343665	12.203
Hcfc1	0	0	0	1558	25.96667	28.9204	5.146626	Unclassified	chrX:71188133-71213654	23.522
Fetub	0	0	0	30	0.5	0.258239	0.421344	Unclassified	chr16:22916454-22939841	21.388
Hcn1	0	0	0	156	2.6	0.038642	2.139152	Unclassified	chr13:118389126-118769835	378.71
Hcn2	0	0	0	115	1.916667	0.645608	1.237135	Unclassified	chr10:79177378-79198853	19.476
Nfasc	0	0	0	279	4.65	0.068786	0.39039	Unclassified	chr1:134461267-134640374	177.108
Ankrd61	0	0	0	55	0.916667	0	1.739636	Unclassified	chr5:144651611-144657936	4.326

Plcb1	0	0	0	410	6.833333	0.018314	1.25554	Unclassified	chr2:134609899-135300994	689.096
Plcb3	0	0	0	199	3.316667	3.97389	6.565302	Unclassified	chr19:7028202-7046242	16.041
Plau	0	0	0	79	1.316667	0.542508	16.30413	Stalled	chr14:21653883-21662610	6.728
Mark1	0	0	0	104	1.733333	0.158213	0	Unclassified	chr1:186720302-186825428	103.127
Plcb4	0	0	0	261	4.35	0.131816	0	Unclassified	chr2:135565565-135838804	271.24
Rab11fip2	0	0	0	411	6.85	1.99564	32.32638	Stalled	chr19:59978788-60021267	40.48
Gm5483	0	0	0	3	0.05	0.046512	2	Unclassified	chr16:36182297-36188196	3.9
P2ry1	0	0	0	11	0.183333	1.11786	3.054781	Unclassified	chr3:60804716-60812901	6.186
Ndufb8	0	0	0	326	5.433333	89.2058	9.126097	Unclassified	chr19:44624743-44631905	5.163
Scd3	0	0	0	41	0.683333	4.58625	0.504636	Unclassified	chr19:44275777-44318506	40.73
Zswim6	0	0	0	1221	20.35	1.54749	39.38139	Unclassified	chr13:108514697-108682258	165.562
Lass4	0	0	0	336	5.6	3.81555	14.16916	Unclassified	chr8:4491404-4526079	32.676
Zfp292	0	0	0	1076	17.93333	3.37154	28.14205	Unclassified	chr4:34750358-34832197	79.84
Tpbp	0	0	0	21	0.35	1.3255	2.900529	Unclassified	chr9:85733986-85740662	4.677
2900073G15Rik	0	0	0	450	7.5	44.1592	16.75809	Unclassified	chr17:71343132-71353873	8.742
Dnajc12	0	0	0	83	1.383333	5.43792	36.63288	Stalled	chr10:62847364-62871569	22.206
Fndc3b	0	0	0	1931	32.18333	1.68466	6.176425	Unclassified	chr3:27315083-27611361	294.279
Myom2	0	0	0	76	1.266667	0.031051	1.005162	Unclassified	chr8:15055652-15133419	75.768
Tmem202	0	0	0	6	0.1	0.071429	0	Unclassified	chr9:59366491-59375308	6.818
Xkr9	0	0	0	45	0.75	0.026618	0.426315	Unclassified	chr1:13656851-13691804	32.954
V1rd15	0	0	0	1	0.016667	0	1	Unclassified	chr7:24837792-24840710	0.919
Bcl2l15	0	0	0	75	1.25	1.14906	0.220413	Unclassified	chr3:103634618-103658539	21.922
Cmklr1	0	0	0	64	1.066667	0.126136	0	Unclassified	chr5:114062363-114102399	38.037
Ube3b	0	0	0	852	14.2	10.4964	13.05421	Unclassified	chr5:114828615-114871175	40.561
Hspbp1	0	0	0	448	7.466667	24.1423	6.870887	Unclassified	chr7:4612122-4638565	24.444
Sdccag1	0	0	0	1036	17.26667	14.6626	10.89013	Unclassified	chr12:70412529-70460153	45.625
Mrps16	0	0	0	389	6.483333	39.8092	19.02384	Stalled	chr14:21210452-21214777	2.326
Kcne11	0	0	0	2	0.033333	0.05318	0.308915	Unclassified	chrX:138739295-138742741	1.447
Cyb56d1	0	0	0	432	7.2	3.65684	9.286356	Unclassified	chr3:107998688-108005752	5.065
Zfp654	0	0	0	21	0.35	0.748032	1.99359	Unclassified	chr16:64780172-64788147	5.976
Mcf2	0	0	0	21	0.35	0.070926	0	Unclassified	chrX:57309132-57402820	91.689
Cela1	0	0	0	76	1.266667	0.231438	2.927928	Unclassified	chr15:100504852-100520351	13.5
AF251705	0	0	0	9	0.15	0.157055	0.813408	Unclassified	chr11:114858082-114865194	5.113
Evc2	0	0	0	91	1.516667	0.028058	0.986047	Unclassified	chr5:37727716-37816293	86.578
Fam189b	0	0	0	180	3	1.89317	4.568079	Unclassified	chr3:88985146-88993211	6.066
Kcnmb2	0	0	0	203	3.383333	0.035125	0.597163	Unclassified	chr3:31799624-32099102	297.479
Sfxn4	0	0	0	234	3.9	1.11665	21.69297	Stalled	chr19:60913179-60939333	24.155
4930432K09Rik	0	0	0	13	0.216667	0	0	Unclassified	chr5:88252721-88275411	20.691
Tmem161b	0	0	0	399	6.65	2.1965	20.58233	Stalled	chr13:84359900-84435571	73.672
Utp6	0	0	0	493	8.216667	12.6255	17.81521	Unclassified	chr11:79747457-79777889	28.433
4930590J08Rik	0	0	0	127	2.116667	0.026425	4.501364	Unclassified	chr6:91852226-91900719	46.494
Parg	0	0	0	733	12.21667	6.62717	47.94394	Stalled	chr14:33013156-33110735	95.58
Git2	0	0	0	1155	19.25	8.80235	10.13964	Unclassified	chr5:115177416-115225500	46.085
2210404J11Rik	0	0	0	102	1.7	2.18216	0.176331	Unclassified	chr17:15176575-15201196	22.622
BC049807	0	0	0	67	1.116667	0.552655	6.807605	Unclassified	chr17:21702009-21725649	21.641
Anks1b	0	0	0	715	11.91667	0.404118	1.217641	Unclassified	chr10:89334253-90436049	1099.797
Trpm1	0	0	0	137	2.283333	0.087193	0.45984	Unclassified	chr7:71296720-71414645	115.926
Daam1	0	0	0	845	14.08333	3.00301	13.81983	Unclassified	chr12:72930064-73093354	161.291
Acvr1	0	0	0	184	3.066667	0.21751	7.775391	Unclassified	chr2:58298848-58421239	120.392
Tm2d2	0	0	0	301	5.016667	19.5804	21.60369	Stalled	chr8:26125682-26133731	6.05
Npr2	0	0	0	38	0.633333	0.070014	1.049974	Unclassified	chr4:43642806-43664112	19.307
Krt77	0	0	0	19	0.316667	0.111835	0	Unclassified	chr15:101690286-101702049	9.764
Krt40	0	0	0	5	0.083333	0	1.400749	Unclassified	chr11:99398798-99406472	5.675
Krt74	0	0	0	13	0.216667	0.086131	0.894233	Unclassified	chr15:101584782-101595868	9.087
Gm5414	0	0	0	3	0.05	0.007707	0.612553	Unclassified	chr15:101454458-101460619	4.162
Qrfrp	0	0	0	47	0.783333	0.021332	0.963743	Unclassified	chr3:36078347-36123197	42.851
Acta2	0	0	0	161	2.683333	0	0.194456	Unclassified	chr19:34315580-34331826	14.247
Psg16	0	0	0	40	0.666667	0.044911	3.423095	Unclassified	chr7:17657388-17684320	24.933
Slc30a10	0	0	0	19	0.316667	0.133923	1.439532	Unclassified	chr1:187276726-187292640	13.915
Atp11b	0	0	0	956	15.93333	9.19197	34.41033	Unclassified	chr3:35651059-35755198	102.14
2410022L05Rik	0	0	0	65	1.083333	4.32848	3.35014	Unclassified	chr8:13884787-13892271	5.485
Ttc19	0	0	0	891	14.85	6.54581	20.54117	Unclassified	chr11:62092974-62129926	34.953
Mfap4	0	0	0	79	1.316667	0.059296	0.091379	Unclassified	chr11:61296945-61302206	3.262
Fbxo47	0	0	0	281	4.683333	1.07502	95.92393	Stalled	chr11:97715620-97747468	29.849
Mras	0	0	0	53	0.883333	0.260649	0.99303	Unclassified	chr9:99285838-99339131	51.294
1700007G11Rik	0	0	0	258	4.3	1.88962	2.60719	Unclassified	chr5:98756322-99231038	472.717
Olfr1257	0	0	0	2	0.033333	0	2	Unclassified	chr2:89718984-89721914	0.931
BC039632	0	0	0	275	4.583333	0.196595	0.686918	Unclassified	chr7:135028957-135036484	5.528
Pmfbp1	0	0	0	64	1.066667	0.02263	0.434394	Unclassified	chr8:112015926-112066542	48.617
Abhd13	0	0	0	352	5.866667	3.3078	15.31709	Unclassified	chr8:9975716-9992154	14.439
Olfr859	0	0	0	0	0	0	0	Unclassified	chr9:19610763-19613693	0.931
Olfr1252	0	0	0	0	0	0	0	Unclassified	chr2:89561321-89564266	0.946
Olfr855	0	0	0	1	0.016667	0.025892	1	Unclassified	chr9:19386954-19389944	0.991
Olfr850	0	0	0	0	0	0	0	Unclassified	chr9:19281744-19284692	0.949
Olfr854	0	0	0	1	0.016667	0.020263	1	Unclassified	chr9:19370878-19373826	0.949
Olfr536	0	0	0	8	0.133333	0.014965	0.476759	Unclassified	chr7:147686751-147695217	6.467
Mbip	0	0	0	208	3.466667	6.7046	17.22139	Stalled	chr12:57429307-57448855	17.549
Arntl2	0	0	0	34	0.566667	0.081023	0	Unclassified	chr6:146752051-146781168	27.118
Ttc39a	0	0	0	118	1.966667	0.076646	0.986108	Unclassified	chr4:109077704-109117348	37.645
Ppp1r1b	0	0	0	36	0.6	0.411541	0.869856	Unclassified	chr11:98208051-98219109	9.059
Fnta	0	0	0	346	5.766667	14.1794	20.97956	Unclassified	chr8:27109193-27128073	16.881
Ppp1cb	0	0	0	793	13.21667	13.1998	25.54856	Unclassified	chr5:32759342-32796085	34.744
Ppp1b	0	0	0	791	13.18333	17.1712	19.19253	Unclassified	chr17:85355340-85423331	65.992
Ppm1a	0	0	0	675	11.25	14.9062	27.82818	Unclassified	chr12:73860197-73895926	33.73
Dcaf12l2	0	0	0	2	0.033333	0.008897	0	Unclassified	chrX:41718633-41723514	2.882
Fam124b	0	0	0	41	0.683333	0.411861	4.590007	Unclassified	chr1:80195273-80212519	15.247

Gm4987	0	0	0	0	0	48.0153	0	Unclassified	chrX:43809017-43811523	0.507
Dcaf121i	0	0	0	1	0.016667	0.04814	0	Unclassified	chrX:42139748-42145328	3.581
Fez2	0	0	0	357	5.95	3.25867	17.14488	Unclassified	chr17:78777224-78819443	40.22
Cdh5	0	0	0	165	2.75	0.218643	0	Unclassified	chr8:106623524-106668402	42.879
Tox3	0	0	0	80	1.333333	0.07225	2.300238	Unclassified	chr8:92771010-92874151	101.142
Odam	0	0	0	2	0.033333	0.073742	2	Unclassified	chr5:88312719-88321767	7.049
Hhip	0	0	0	71	1.833333	0.26534	1.152751	Unclassified	chr8:82489749-82563907	92.159
Gpx8	0	0	0	9	0.15	0.138759	1.585635	Unclassified	chr13:113832970-113838596	3.627
Afg3l2	0	0	0	750	12.5	17.2621	11.61099	Unclassified	chr18:67564417-67610790	44.374
Nxph4	0	0	0	29	0.483333	1.08652	0.537623	Unclassified	chr10:126962528-126973615	9.088
Fam151a	0	0	0	34	0.566667	0.110526	0.631398	Unclassified	chr4:106404519-106420897	14.379
Wdr7	0	0	0	821	13.68333	2.87979	35.43786	Stalled	chr18:63866348-64149411	281.064
Neu2	0	0	0	28	0.466667	0.024319	0.457973	Unclassified	chr1:89468601-89494413	23.813
Nr0b2	0	0	0	9	0.15	0.137563	0.4094028	Unclassified	chr4:133107304-133112451	3.148
Nr2e3	0	0	0	11	0.183333	0.051291	0.948159	Unclassified	chr9:59790577-59799886	7.31
Rnase4	0	0	0	43	0.716667	1.56642	2.55486	Unclassified	chr14:51708751-51725826	15.076
Zfp810	0	0	0	332	5.533333	1.7549	14.26455	Unclassified	chr9:22081191-22114082	30.892
5730419I09Rik	0	0	0	1038	17.3	9.69165	17.73154	Unclassified	chr6:142959439-143050627	89.189
Ttc22	0	0	0	35	0.583333	0.075896	1.051866	Unclassified	chr4:106293053-106312790	17.738
Arrdc5	0	0	0	19	0.316667	0.060683	0.244463	Unclassified	chr17:56433533-56441709	6.177
1700015E13Rik	0	0	0	6	0.1	0.053926	2.081445	Unclassified	chr1:172236991-172242256	3.266
Tdpoz2	0	0	0	0	0	0.01411	0	Unclassified	chr3:93455492-93458585	1.094
Scyl1	0	0	0	432	7.2	18.9347	6.728695	Unclassified	chr19:5758426-5773401	12.976
2310079F23Rik	0	0	0	747	12.45	5.91592	13.46512	Unclassified	chr5:35898857-35919719	18.863
Pus7l	0	0	0	453	7.55	2.74494	40.95778	Unclassified	chr15:94353070-94375938	20.869
1500015O10Rik	0	0	0	66	1.1	0.043298	0.296469	Unclassified	chr1:43785446-43799409	11.964
Mall	0	0	0	69	1.15	0.117282	1.433124	Unclassified	chr2:127530125-127557633	25.509
Fam69c	0	0	0	24	0.4	0.077386	2.121339	Unclassified	chr18:84887633-84909828	20.196
Rasl10b	0	0	0	37	0.616667	0.165681	1.173811	Unclassified	chr11:83221573-83234540	10.968
Olfr1258	0	0	0	1	0.016667	0	1	Unclassified	chr2:89767967-89770903	0.937
Sifn8	0	0	0	373	6.216667	4.36864	7.111612	Unclassified	chr11:82815659-82836312	18.654
Mfsd7b	0	0	0	600	10	4.32721	35.63537	Unclassified	chr1:192829710-192852069	20.36
Dgki	0	0	0	376	6.266667	0.119857	0.547739	Unclassified	chr6:36796021-37251976	453.956
Il1rap	0	0	0	357	5.95	2.15743	43.77737	Stalled	chr16:26579790-26725233	143.444
Ii3	0	0	0	3	0.05	0.030192	1.089253	Unclassified	chr11:54078586-54082781	2.196
Mtrr	0	0	0	680	11.33333	5.71883	27.40426	Unclassified	chr13:68699656-68722998	21.343
Klra3	0	0	0	1	0.016667	0.01196	0	Unclassified	chr6:130273304-130289644	14.341
Ii4	0	0	0	13	0.216667	0.06595	0	Unclassified	chr11:53425964-53434167	6.204
Ii3ra	0	0	0	421	7.016667	8.21732	8.44699	Unclassified	chr14:15177008-15188004	8.997
Klra2	0	0	0	10	0.166667	0.007172	0.750893	Unclassified	chr6:131169252-131199380	28.129
Gm5934	0	0	0	0	0	0.015278	0	Unclassified	chrX:24051433-24079886	26.454
Cthrc1	0	0	0	22	0.366667	0.110106	3.186042	Unclassified	chr15:38906477-38918665	10.189
Cign	0	0	0	45	0.75	0.736711	2.430349	Unclassified	chr8:85911789-85950728	36.94
Cldn5	0	0	0	15	0.25	0.416938	0.223871	Unclassified	chr16:18774939-18778353	1.415
Cldn4	0	0	0	18	0.3	0.509061	1.398589	Unclassified	chr5:135420992-135424804	1.813
Cxcl9	0	0	0	7	0.116667	0.105884	1.069767	Unclassified	chr5:92750356-92759105	6.75
Akr1c20	0	0	0	11	0.183333	0	0	Unclassified	chr13:4506404-4524579	16.176
Sbsn	0	0	0	16	0.266667	0.458989	1.885126	Unclassified	chr7:31534489-31541153	4.665
Apip	0	0	0	355	5.916667	15.3789	24.7209	Unclassified	chr2:102911831-102932806	18.976
Scoc	0	0	0	227	3.783333	1.29865	31.54591	Stalled	chr8:85958391-85968547	8.157
Dqx1	0	0	0	376	6.266667	0.975798	4.305587	Unclassified	chr6:83005837-83017213	9.377
Zmym3	0	0	0	247	4.116667	3.6712	0.84444	Unclassified	chrX:98599723-98618188	16.466
Defb19	0	0	0	10	0.166667	0.130446	1.176735	Unclassified	chr2:152401822-152408048	4.227
Sult1b1	0	0	0	6	0.1	0.014765	0	Unclassified	chr5:87942363-87969220	24.858
Pus1	0	0	0	495	8.25	35.899	5.530515	Unclassified	chr5:111202685-111211615	6.931
Acot9	0	0	0	259	4.316667	6.5246	36.19297	Stalled	chrX:151695042-151732050	35.009
Cnot6	0	0	0	678	11.3	17.3788	17.42667	Unclassified	chr11:49488211-49528212	38.002
Brwd1	0	0	0	428	7.133333	1.8019	15.08741	Stalled	chr16:96213698-96306035	90.338
Pcdhb1	0	0	0	7	0.116667	0.307759	0.843262	Unclassified	chr18:37422651-37427108	2.458
Pcdhb2	0	0	0	7	0.116667	0.037898	1.487437	Unclassified	chr18:37452493-37457268	2.776
Pcdhb3	0	0	0	2	0.033333	0.010153	0	Unclassified	chr18:37458452-37464239	3.788
Pcdhb4	0	0	0	5	0.083333	0.027569	0	Unclassified	chr18:37465108-37470827	3.72
Pcdhb5	0	0	0	1	0.016667	0.022503	0	Unclassified	chr18:37478034-37483567	3.534
Vit	0	0	0	132	2.2	0.073041	0.480224	Unclassified	chr17:78905479-79026738	119.26
Pcdhb7	0	0	0	7	0.116667	0.025563	1.155832	Unclassified	chr18:37499355-37504861	3.507
Pcdhb8	0	0	0	1	0.016667	0.043791	0	Unclassified	chr18:37512924-37517264	2.341
Htr3b	0	0	0	26	0.433333	0.026579	1.115112	Unclassified	chr9:48743112-48775095	29.984
Leprot1	0	0	0	128	2.133333	2.61202	11.77706	Stalled	chr8:35198625-35211793	11.169
Lst1	0	0	0	116	1.933333	6.37479	0.467373	Unclassified	chr17:35322039-35327385	3.347
Tex264	0	0	0	443	7.383333	12.5193	4.11651	Unclassified	chr9:106561076-106590279	27.204
Jak1	0	0	0	1827	30.45	22.1315	20.67555	Unclassified	chr4:100824578-100939887	113.31
Lrrn3	0	0	0	202	3.366667	1.11866	4.72438	Unclassified	chr12:42178254-42214338	34.085
Rnf111	0	0	0	1080	18	5.76264	32.55991	Unclassified	chr9:70273235-70353532	78.298
F11r	0	0	0	66	1.1	1.14061	3.578154	Unclassified	chr1:173365691-173394724	27.034
Olfr366	0	0	0	2	0.033333	0	1	Unclassified	chr2:37073010-37075940	0.931
Cacng1	0	0	0	22	0.366667	0.095883	1.620621	Unclassified	chr11:107564531-107579790	13.26
Cacnb4	0	0	0	339	5.65	0.260318	4.305745	Unclassified	chr2:52283839-52534101	248.263
Mycbp2	0	0	0	1734	28.9	6.55528	27.86967	Unclassified	chr14:103512627-103748017	233.391
Mapkap1	0	0	0	902	15.03333	7.07406	1.417839	Unclassified	chr2:34285544-34480470	192.927
Cacna2d1	0	0	0	205	3.416667	0.034639	2.060771	Unclassified	chr5:15438508-15880329	439.822
Cacna1e	0	0	0	1301	21.68333	4.037	1.644132	Unclassified	chr1:156239648-156575050	333.403
Cacnb3	0	0	0	168	2.8	0.648126	0.418158	Unclassified	chr15:98460650-98474961	12.312
Tapt1	0	0	0	795	13.25	4.96168	16.38421	Unclassified	chr5:44566400-44619845	51.446
Sgta	0	0	0	394	6.566667	30.1903	6.79901	Unclassified	chr10:80506817-80524899	16.083
Nup37	0	0	0	518	8.633333	9.60409	42.21233	Unclassified	chr10:87607736-87641133	31.398
Pigg	0	0	0	169	2.816667	14.5284	39.28708	Stalled	chr16:94580370-94594317	11.948

Parp8	0	0	0	957	15.95	3.8882	18.18752	Stalled	chr13:117643630-117816323	170.694
Cml5	0	0	0	7	0.116667	0.031343	0.478805	Unclassified	chr6:85767211-85772966	3.756
Srp14	0	0	0	341	5.683333	43.7862	8.653161	Unclassified	chr2:118301578-118307432	3.855
Srpk1	0	0	0	1136	18.933333	16.0483	11.77696	Unclassified	chr17:28726536-28761399	32.864
Gm8333	0	0	0	8	0.133333	0	0.746867	Unclassified	chr4:152069648-152075031	3.384
Srpk2	0	0	0	534	8.9	3.31328	6.697112	Unclassified	chr5:23009173-23124389	113.217
Fabp4	0	0	0	19	0.316667	0.359897	0.750798	Unclassified	chr3:10204342-10210576	4.235
Tnni3k	0	0	0	151	2.516667	0.012639	0.64125	Unclassified	chr3:154449254-154720371	269.118
Cntn2	0	0	0	122	2.033333	0.102154	0.426405	Unclassified	chr1:134406001-134441517	33.517
Mrpl27	0	0	0	314	5.233333	16.3187	6.824778	Unclassified	chr11:94513104-94521401	6.298
Mrpl16	0	0	0	150	2.5	19.5986	16.70517	Stalled	chr19:11842904-11849436	4.533
Lce3c	0	0	0	1	0.016667	0	1	Unclassified	chr3:92746407-92749652	1.246
Lrfn2	0	0	0	179	2.983333	0.021353	0.976221	Unclassified	chr17:49069906-49236915	165.01
Heatr5b	0	0	0	515	8.583333	4.49364	78.07108	Stalled	chr17:79152245-79236721	82.477
Qpct	0	0	0	58	0.966667	1.0325	3.672433	Unclassified	chr17:79449245-79489583	38.339
Ccdc150	0	0	0	126	2.1	0.454293	19.7943	Stalled	chr1:54305526-54425571	118.046
BC051070	0	0	0	13	0.216667	0.015367	0	Unclassified	chr3:106190301-106211100	18.8
Fgf3	0	0	0	6	0.1	0.05367	0	Unclassified	chr7:152022516-152029253	4.738
Fgf4	0	0	0	5	0.083333	0.088826	1.176785	Unclassified	chr7:152045290-152051148	3.859
Fgf5	0	0	0	18	0.3	0.081992	0.562397	Unclassified	chr5:98681202-98706049	22.848
Fgf6	0	0	0	9	0.15	0.104029	0.505501	Unclassified	chr6:126963559-126974736	9.178
Fgf15	0	0	0	13	0.216667	0.453926	2.131132	Unclassified	chr7:152080436-152086856	4.421
Fgf17	0	0	0	24	0.4	0.501409	0.878387	Unclassified	chr14:71036011-71044075	6.065
Fuca1	0	0	0	371	6.183333	22.3937	12.15619	Unclassified	chr4:135474640-135496215	19.576
Dus4l	0	0	0	387	6.45	3.84345	34.25598	Unclassified	chr12:32324919-32341691	14.773
0610007L01Rik	0	0	0	1175	19.583333	17.1455	0.174855	Unclassified	chr5:130693613-130719635	24.023
Syt17	0	0	0	92	1.533333	0.11889	2.516883	Unclassified	chr7:125525369-125589066	61.698
Tmem79	0	0	0	148	2.466667	0.85519	3.150669	Unclassified	chr3:88132574-88140355	5.782
Slc7a3	0	0	0	43	0.716667	4.11525	5.392751	Unclassified	chrX:98274559-98282691	6.133
Atp10a	0	0	0	738	12.3	3.21476	22.50459	Stalled	chr7:65911571-66084796	171.222
Atp8a1	0	0	0	1084	18.06667	1.59798	30.67323	Stalled	chr5:68009379-68240670	229.296
Atp9a	0	0	0	193	3.216667	0.522967	3.013529	Unclassified	chr2:168459937-168569300	107.364
6330406I15Rik	0	0	0	50	0.833333	0.075757	0.27834	Unclassified	chr5:150212380-150234278	19.899
Gni3l	0	0	0	401	6.683333	3.34714	15.03512	Unclassified	chrX:147417675-147453865	34.191
Tmem66	0	0	0	127	2.116667	11.6062	12.42341	Stalled	chr8:35215616-35233901	16.286
Lrrc16b	0	0	0	89	1.483333	1.74062	5.377517	Unclassified	chr14:56107929-56127101	17.173
Olfr424	0	0	0	3	0.05	0.06774	1	Unclassified	chr1:176064876-176067822	0.947
Olfr509	0	0	0	2	0.033333	0	1	Unclassified	chr7:115789122-115792088	0.967
Commd9	0	0	0	190	3.166667	9.30201	11.4099	Stalled	chr2:101724418-101741796	15.379
Olfr513	0	0	0	0	0	0	0	Unclassified	chr7:115896371-115899301	0.931
Palmd	0	0	0	31	0.516667	0.042828	0.631475	Unclassified	chr3:116621179-116673870	50.692
Dazl	0	0	0	53	0.883333	0	5.604895	Unclassified	chr17:50418718-50434924	14.207
Asb14	0	0	0	71	1.183333	0.057244	0	Unclassified	chr14:27705789-27727602	19.814
Abcb4	0	0	0	163	2.716667	1.3557	9.896585	Unclassified	chr5:8891720-8959226	65.507
Phex	0	0	0	136	2.266667	0.037243	1.318889	Unclassified	chrX:153596617-153855218	256.602
Slc25a3	0	0	0	639	10.65	186.412	13.84403	Unclassified	chr10:90579322-90588708	7.387
Fxr1	0	0	0	628	10.46667	18.7613	17.87789	Unclassified	chr3:33917000-33968266	49.267
Prss41	0	0	0	18	0.3	0.553223	0.657926	Unclassified	chr17:23973751-23983123	7.373
Asb13	0	0	0	319	5.316667	4.08944	17.47286	Unclassified	chr13:3631321-3651025	17.705
D7Erdt443e	0	0	0	76	1.266667	0.042281	0.593646	Unclassified	chr7:141457944-141570511	110.568
Olfr457	0	0	0	2	0.033333	0.008395	1	Unclassified	chr6:42421233-42424175	0.943
Abp1	0	0	0	24	0.4	0.023974	1.215069	Unclassified	chr6:48843253-48859186	13.934
Myo5b	0	0	0	342	5.7	0.046275	1.972505	Unclassified	chr18:74600272-74931131	328.86
Myo5a	0	0	0	1494	24.9	5.03014	39.11614	Unclassified	chr9:74917012-75071494	152.483
Myo1f	0	0	0	147	2.45	3.3199	8.091808	Unclassified	chr17:33690651-33744709	52.059
Slc22a9	0	0	0	19	0.316667	0.038818	0.674114	Unclassified	chr19:7747567-7787800	38.234
Creb3l3	0	0	0	75	1.25	0.089665	0.316597	Unclassified	chr10:80547077-80563617	14.541
Myo1b	0	0	0	152	2.533333	0.126848	1.582394	Unclassified	chr1:51806615-51974818	166.204
Myo15	0	0	0	333	5.55	0.105467	11.7242	Stalled	chr11:60280840-60341870	59.031
Smurf1	0	0	0	570	9.5	2.36189	12.30067	Unclassified	chr5:145637363-145728699	89.337
Abcg5	0	0	0	33	0.55	0.045307	1.430299	Unclassified	chr17:85057573-85084263	24.691
Olfr1076	0	0	0	0	0	0	0	Unclassified	chr2:86346617-86349559	0.943
38967	0	0	0	67	1.116667	0.238744	2.475285	Unclassified	chr11:53331301-53357598	24.298
Hsd17b6	0	0	0	21	0.35	0.008784	0.450454	Unclassified	chr10:127427991-127446564	16.574
Skp2	0	0	0	338	5.633333	3.43573	15.24121	Unclassified	chr15:9041741-9072207	28.467
Abca8b	0	0	0	46	0.766667	0.097444	1.17634	Unclassified	chr11:109794719-109859130	62.412
Serfl	0	0	0	59	0.983333	5.6357	16.45426	Stalled	chr13:100875973-100884188	6.216
Lair1	0	0	0	34	0.566667	0.153055	3.315952	Unclassified	chr7:3958674-4016806	56.133
Gm5431	0	0	0	29	0.483333	0.910747	4.623223	Unclassified	chr11:48700923-48717654	14.732
Styk1	0	0	0	13	0.216667	0.064499	1.733376	Unclassified	chr6:131249161-131265845	14.685
Pi4k2b	0	0	0	164	2.733333	3.57379	18.4412	Stalled	chr5:53130812-53160579	27.768
Cdc37l1	0	0	0	510	8.5	6.7298	28.15449	Unclassified	chr19:29062983-29092059	27.077
Rps6ka6	0	0	0	21	0.35	0.10398	0.881485	Unclassified	chrX:108501800-108653554	149.755
Magt1	0	0	0	399	6.65	21.3818	29.15852	Stalled	chrX:103165816-103209125	41.31
Mon2	0	0	0	628	10.46667	4.74473	22.69832	Unclassified	chr10:122429116-122515561	84.446
Srrm4	0	0	0	155	2.583333	0.09773	0.495984	Unclassified	chr5:116889281-117043826	152.546
Cecr2	0	0	0	441	7.35	1.1911	24.19169	Stalled	chr6:120614438-120721209	104.772
Cutc	0	0	0	468	7.8	5.4829	112.8642	Stalled	chr19:43825512-43843128	15.617
4932412H11Rik	0	0	0	54	0.9	0.041254	7.012876	Unclassified	chr5:3843172-3866596	21.425
6430526N21Rik	0	0	0	743	12.383333	10.0241	6.829184	Unclassified	chr7:4969977-4984825	12.849
Fam57b	0	0	0	34	0.566667	0.19958	0	Unclassified	chr7:133958398-133973731	13.334
Fam110b	0	0	0	112	1.866667	0.314608	1.773719	Unclassified	chr4:5569325-5727091	155.767
Krtap3-3	0	0	0	1	0.016667	0	0	Unclassified	chr11:99411445-99414177	0.733
Klh9	0	0	0	191	3.183333	7.97031	20.03434	Stalled	chr4:88364195-88370412	4.218
Csf3r	0	0	0	44	0.733333	0.582746	2.793894	Unclassified	chr4:12569902-125721684	19.783
Csf3	0	0	0	38	0.633333	0.075224	0.089911	Unclassified	chr11:98560626-98564943	2.318

Csf2rb2	0	0	0	122	2.033333	1.39479	0.966994	Unclassified	chr15:78112939-78138033	23.095
Csf2rb	0	0	0	300	5	5.03781	2.926179	Elongating	chr15:78154419-78181431	25.013
Csf2	0	0	0	11	0.183333	0.062035	0.338698	Unclassified	chr11:54060771-54065401	2.631
4922505E12Rik	0	0	0	5	0.083333	0	0.260355	Unclassified	chr1:184677256-184681311	2.056
Ppcs	0	0	0	208	3.466667	11.5516	28.10029	Stalled	chr4:119091137-119097025	3.889
Dlk2	0	0	0	38	0.633333	0.58537	0.913977	Unclassified	chr17:46432369-46440220	5.852
Wfdc9	0	0	0	8	0.133333	0	0	Unclassified	chr2:164475124-164482466	5.343
2410127L17Rik	0	0	0	340	5.666667	3.9983	11.04688	Unclassified	chr19:18743269-18779282	34.014
Ccr11	0	0	0	8	0.133333	0.070226	0.631075	Unclassified	chr9:123891781-123895241	1.461
Bag4	0	0	0	500	8.333333	2.70617	53.03755	Stalled	chr8:26875010-26897681	20.672
Fam132a	0	0	0	131	2.183333	2.16286	3.36011	Unclassified	chr4:155334426-155340738	4.313
A530088H08Rik	0	0	0	13	0.216667	0.068036	0	Unclassified	chr11:66723492-66742202	16.711
Maf	0	0	0	17	0.283333	0.770669	3.746943	Unclassified	chr8:118227152-118232794	3.643
Gm5592	0	0	0	3	0.05	0.015274	0	Unclassified	chr7:48537696-48545553	5.858
Olfr1079	0	0	0	1	0.016667	0.054077	1	Unclassified	chr2:86378122-86381070	0.949
Ptchd2	0	0	0	87	1.45	0.03835	2.328712	Unclassified	chr4:147610965-147664074	51.11
Odf31	0	0	0	5	0.083333	0.035601	0	Unclassified	chr9:56696465-56701770	3.306
A530099J19Rik	0	0	0	5	0.083333	0.013866	1.203822	Unclassified	chr13:19819285-19826820	5.536
2810408P10Rik	0	0	0	159	2.65	1.60882	18.28242	Stalled	chr4:147197094-147224484	25.391
Hoxa6	0	0	0	6	0.1	0.196269	0.386691	Unclassified	chr6:52156363-52160623	2.261
Hoxa5	0	0	0	6	0.1	0	0.759049	Unclassified	chr6:52151752-52156586	2.835
Hoxa4	0	0	0	75	1.25	0.360669	12.17218	Stalled	chr6:52139685-52143702	2.018
Psg29	0	0	0	10	0.166667	0.02404	0	Unclassified	chr7:17786825-17801105	12.281
Hoxb1	0	0	0	15	0.25	0.172777	0.35236	Unclassified	chr11:96225071-96229567	2.497
Hoxa9	0	0	0	8	0.133333	0.185996	0.316753	Unclassified	chr6:52174052-52179369	3.318
Hoxa7	0	0	0	8	0.133333	0.664648	1.576247	Unclassified	chr6:52165622-52170572	2.951
Bclp2	0	0	0	24	0.4	0.049446	0	Unclassified	chr3:105820049-105837732	15.684
Hoxb13	0	0	0	10	0.166667	0.136655	1.530864	Unclassified	chr11:96053674-96057913	2.24
Ddhd1	0	0	0	682	11.36667	3.42987	51.54056	Unclassified	chr14:46212848-46279818	64.971
Cops5	0	0	0	365	6.083333	33.7109	17.76445	Unclassified	chr1:10014911-10029979	13.069
Dpysl4	0	0	0	20	0.333333	0.048565	0	Unclassified	chr7:146269899-146287690	15.792
Dcpp2	0	0	0	2	0.033333	0	1	Unclassified	chr17:24033688-24037754	2.067
Hpse2	0	0	0	382	6.366667	0.048114	0.611113	Unclassified	chr19:42863084-43464801	599.718
Tex12	0	0	0	1	0.016667	0	1	Unclassified	chr9:50365252-50371373	4.122
Acer1	0	0	0	46	0.766667	0.079146	0.771602	Unclassified	chr17:57092912-57123549	28.638
Nepr	0	0	0	8	0.133333	0.035152	0	Unclassified	chr10:52109413-52124410	12.998
Picalm	0	0	0	1507	25.11667	13.5252	24.2042	Unclassified	chr7:97276741-97357442	78.702
Sic18a1	0	0	0	290	4.833333	2.79041	109.8219	Stalled	chr8:71561606-71615121	51.516
Scn2a1	0	0	0	50	0.833333	0.040758	0	Unclassified	chr2:65506501-65605504	97.004
Mcoln3	0	0	0	134	2.233333	0.778354	3.077353	Unclassified	chr3:145782754-145803610	18.857
Zfp53	0	0	0	475	7.916667	5.78204	32.09858	Unclassified	chr17:21623951-21647441	21.491
Cntn4	0	0	0	464	7.733333	0.044502	0	Unclassified	chr6:105625738-106649299	1021.562
Pan3	0	0	0	2424	40.4	4.74904	20.52836	Unclassified	chr5:148240155-148360077	117.923
Psmc2	0	0	0	704	11.73333	47.3318	9.638055	Unclassified	chr5:21289100-21309602	18.503
Psmc1	0	0	0	393	6.55	110.129	3.987484	Unclassified	chr14:56195330-56200364	3.035
Zufsp	0	0	0	433	7.216667	3.70165	14.72757	Unclassified	chr10:33646741-33673018	24.278
Rhox4g	0	0	0	0	0	0	0	Unclassified	chrX:35061007-35067834	4.828
Rhox4a	0	0	0	0	0	0.006768	0	Unclassified	chrX:34803421-34810070	4.65
Spert	0	0	0	10	0.166667	0.063486	0.504736	Unclassified	chr14:75982640-75993792	9.153
Mpp5	0	0	0	403	6.716667	1.86651	40.45339	Stalled	chr12:79848007-79939068	89.062
Fam32a	0	0	0	189	3.15	28.1813	3.216481	Unclassified	chr8:74741628-74747674	4.047
Olfr464	0	0	0	0	0	0	0	Unclassified	chr11:87727464-87730406	0.943
Ccdc70	0	0	0	5	0.083333	0.036479	0	Unclassified	chr8:23079067-23084513	3.447
Abca14	0	0	0	57	0.95	0.021424	0	Unclassified	chr7:127345477-127468866	121.39
Itga8	0	0	0	146	2.433333	0.139645	3.487001	Unclassified	chr2:12028286-12225547	195.262
Rtp2	0	0	0	5	0.083333	0.03695	1.172185	Unclassified	chr16:23925633-23932880	5.248
Zfp831	0	0	0	238	3.966667	0.977582	0.438627	Unclassified	chr2:174467034-174536331	67.298
Oas1d	0	0	0	11	0.183333	0.050433	0	Unclassified	chr5:121362826-121371654	6.829
Ablim3	0	0	0	122	2.033333	0.265828	3.491087	Unclassified	chr18:61959048-62073478	112.431
Fam149a	0	0	0	45	0.75	0.14035	0.514888	Unclassified	chr8:46422068-46469645	45.578
Eif2s2	0	0	0	662	11.03333	22.4154	6.167928	Unclassified	chr2:154697145-154720642	21.498
Prr15l	0	0	0	40	0.666667	0.14582	0.396156	Unclassified	chr11:96788637-96796961	6.325
Nipal4	0	0	0	56	0.933333	0.221709	1.261326	Unclassified	chr11:45961656-45981861	18.206
Scyl2	0	0	0	304	5.066667	4.95279	17.47635	Stalled	chr10:89102851-89151030	46.18
Wt1	0	0	0	50	0.833333	0.095335	1.000945	Unclassified	chr2:104964685-105013771	47.087
Gm597	0	0	0	7	0.116667	0.057811	0.439148	Unclassified	chr1:28832966-28839097	4.132
Acsf5	0	0	0	1305	21.75	39.7658	6.689182	Unclassified	chr19:55325858-55371118	43.261
Xk	0	0	0	227	3.783333	1.73437	29.98311	Stalled	chrX:8847909-8890371	40.463
Cd300a	0	0	0	33	0.55	0.160052	4.454719	Unclassified	chr11:114749354-114765965	14.612
Ttc3	0	0	0	362	6.033333	1.3737	39.98752	Stalled	chr16:94590345-94690828	98.484
Nfatc4	0	0	0	20	0.333333	0.128086	0.704104	Unclassified	chr14:56441631-56452780	9.15
Tsta3	0	0	0	121	2.016667	15.0623	4.339607	Unclassified	chr15:75755112-75762160	5.049
Tsx	0	0	0	2	0.033333	0	0.901137	Unclassified	chrX:100607805-100619919	10.115
Trim75	0	0	0	8	0.133333	0.09213	0.49975	Unclassified	chr8:67505549-67513543	5.995
Olfr988	0	0	0	2	0.033333	0.04131	1	Unclassified	chr2:85193151-85196081	0.931
Olfr1182	0	0	0	0	0	0	0	Unclassified	chr2:88286175-88289093	0.919
Atg4c	0	0	0	216	3.6	4.55398	32.73022	Stalled	chr4:98858837-98926474	65.638
Olfr504	0	0	0	0	0	0	0	Unclassified	chr7:115708350-115711307	0.958
Olfr685	0	0	0	2	0.033333	0.04043	1	Unclassified	chr7:112328874-112331825	0.952
Agk	0	0	0	614	10.23333	2.71812	35.03482	Unclassified	chr6:40273493-40346761	71.269
Vrk2	0	0	0	782	13.03333	5.68003	38.50934	Stalled	chr11:26371401-26495920	122.52
Olfr566	0	0	0	1	0.016667	0.04043	0	Unclassified	chr7:110004834-110007785	0.952
Cd300ld	0	0	0	9	0.15	0.148284	1.688926	Unclassified	chr11:114843760-114853200	7.441
Cd300lb	0	0	0	16	0.266667	0.075652	0.862112	Unclassified	chr11:114784094-114797700	11.607
Eif2ak1	0	0	0	607	10.11667	14.1728	37.62214	Stalled	chr5:144576660-144663586	84.927
Speer4d	0	0	0	6	0.1	0	0.556672	Unclassified	chr5:15122916-15129682	4.767

Fggy	0	0	0	555	9.25	1.13863	36.60376	Stalled	chr4:95222197-95593630	369.434
Pknox2	0	0	0	287	4.783333	0.067179	4.814589	Unclassified	chr9:36698566-36956899	256.334
Trip6	0	0	0	190	3.166667	4.94286	2.883319	Elongating	chr5:137751126-137757469	4.344
Six6os1	0	0	0	16	0.266667	0.01342	0.718072	Unclassified	chr12:73982095-74020752	36.658
3110079015Rik	0	0	0	15	0.25	0.166807	0	Unclassified	chr1:89364838-89372033	5.196
Bmper	0	0	0	210	3.5	0.124927	2.255342	Unclassified	chr9:23025519-23289646	262.128
Maged1	0	0	0	76	1.266667	5.1175	5.509863	Unclassified	chrX:91780812-91789413	6.602
Snx27	0	0	0	430	7.166667	5.7826	24.00493	Stalled	chr3:94301465-94388624	85.16
Fbxo44	0	0	0	147	2.45	6.09659	5.821695	Unclassified	chr4:147526908-147536173	7.266
Brdt	0	0	0	127	2.116667	0.734293	0.306744	Unclassified	chr5:107758212-107816077	55.866
Pth2	0	0	0	2	0.033333	0.239807	2	Unclassified	chr7:52434551-52437208	0.658
Olf133	0	0	0	2	0.033333	0.016456	0	Unclassified	chr17:38283534-38286473	0.94
Acads	0	0	0	164	2.733333	16.3016	7.828125	Unclassified	chr5:115560307-115571322	9.016
Cklf	0	0	0	289	4.816667	14.3578	22.56255	Unclassified	chr8:106772802-106788836	14.035
Rpl36a	0	0	0	501	8.35	99.1442	11.13998	Unclassified	chrX:131118192-131122599	2.408
B3galt6	0	0	0	542	9.033333	4.44274	12.55059	Unclassified	chr4:155363574-155368787	3.214
Sic2a9	0	0	0	457	7.616667	2.21422	17.33681	Stalled	chr5:38740511-38873545	131.035
Asb10	0	0	0	15	0.25	0.127168	1.964081	Unclassified	chr5:24038514-24048266	7.753
Acyp2	0	0	0	251	4.183333	4.31508	89.81941	Stalled	chr11:30405991-30551396	143.406
Olf975	0	0	0	3	0.05	0	1	Unclassified	chr9:39757421-39760354	0.934
Helb	0	0	0	430	7.166667	8.99276	25.90589	Unclassified	chr10:119520663-119552021	29.359
Nans	0	0	0	516	8.6	61.7756	8.155082	Unclassified	chr4:46500200-46516310	14.111
Pdxdc1	0	0	0	753	12.55	10.0349	23.69561	Unclassified	chr16:13834022-13905228	69.207
Strn3	0	0	0	1176	19.6	5.31	39.17134	Unclassified	chr12:52710628-52794874	82.247
Espnl	0	0	0	98	1.633333	0.129529	8.490714	Unclassified	chr1:93216651-93244880	26.23
Olf969	0	0	0	0	0	0.027385	0	Unclassified	chr9:39600961-39603897	0.937
Ypel1	0	0	0	175	2.916667	0.189233	1.918048	Elongating	chr16:17068403-17086781	16.379
Psmd7	0	0	0	572	9.533333	57.4114	7.316196	Unclassified	chr8:110104280-110114382	8.103
A630033E08Rik	0	0	0	78	1.3	0.588776	10.82972	Stalled	chr17:22983663-23006101	20.439
D330045A20Rik	0	0	0	21	0.35	0.052497	1.58792	Unclassified	chrX:136012905-136089119	74.215
Olf273	0	0	0	0	0	0	0	Unclassified	chr4:52868429-52871383	0.955
Dpy1911	0	0	0	668	11.13333	3.31343	42.6124	Stalled	chr9:24216224-24309584	91.361
Mmp25	0	0	0	29	0.483333	0.683732	0.763301	Unclassified	chr17:23766424-23784236	15.813
Olf843	0	0	0	1	0.016667	0	0	Unclassified	chr9:19052800-19055907	1.108
Sln	0	0	0	8	0.133333	0	1.026316	Unclassified	chr9:53696057-53701656	3.6
Dio2	0	0	0	21	0.35	0.387722	1.784547	Unclassified	chr12:91962991-91978878	13.888
Dio1	0	0	0	23	0.383333	0	0.411435	Unclassified	chr4:106964069-106981748	15.68
Tgm5	0	0	0	54	0.9	0.086084	0.426365	Unclassified	chr2:120871846-120913495	39.65
Gtsf1	0	0	0	21	0.35	0.053401	0.574178	Unclassified	chr15:103232891-103262858	27.968
Crct1	0	0	0	1	0.016667	0.0895	1	Unclassified	chr3:92818127-92821608	1.482
Gm1008	0	0	0	12	0.2	0.042579	0.521887	Unclassified	chr2:165176796-165189619	10.824
2810408M09Rik	0	0	0	161	2.683333	8.19581	10.37024	Stalled	chr2:165315611-165320814	3.204
Tgfa	0	0	0	115	1.916667	0.064557	0.829996	Unclassified	chr6:86143409-86225151	79.743
Tgfb1i1	0	0	0	66	1.1	0.232947	5.881475	Unclassified	chr7:135388384-135397226	6.843
Tsc22d1	0	0	0	131	2.183333	2.02347	8.725552	Unclassified	chr14:76902371-76907568	3.198
Klrb1b	0	0	0	19	0.316667	0.035956	0.491762	Unclassified	chr6:128763723-128778333	12.611
Tgfb3	0	0	0	108	1.8	0.619014	3.606638	Unclassified	chr12:87397693-87421991	22.299
Klhl8	0	0	0	147	2.45	0.994412	12.66413	Stalled	chr5:104291068-104342248	49.181
Ptpdc1	0	0	0	129	2.15	0.10505	15.72578	Stalled	chr13:48673240-48722942	47.703
Fam120a	0	0	0	2061	34.35	49.731	10.56129	Unclassified	chr13:48974585-49065197	88.613
4933405L10Rik	0	0	0	36	0.6	0.262256	9.072201	Unclassified	chr8:108230202-108234068	1.867
Defb50	0	0	0	8	0.133333	0	0	Unclassified	chr8:22932010-22941768	7.759
Lep	0	0	0	16	0.266667	0.035415	0	Unclassified	chr6:29008220-29023876	13.657
Lepr	0	0	0	49	0.816667	0.078925	0.668849	Unclassified	chr4:101388011-101487959	97.949
Kcnk12	0	0	0	82	1.366667	1.98905	1.207195	Unclassified	chr17:88145160-88199334	52.175
Gsdma3	0	0	0	7	0.116667	0.058135	2.185391	Unclassified	chr11:98485673-98499403	11.731
Ghdc	0	0	0	60	1	4.35708	8.943706	Unclassified	chr11:100627645-100634271	4.627
Bnip3l	0	0	0	198	3.3	10.4013	30.99853	Stalled	chr14:67604076-67629714	23.639
Prrxl1	0	0	0	58	0.966667	0.090955	1.946054	Unclassified	chr14:33411112-33462432	49.321
Bnip2	0	0	0	329	5.483333	26.5438	19.28765	Unclassified	chr9:69835307-69856124	18.818
D630023F18Rik	0	0	0	17	0.283333	0.22912	1.545807	Unclassified	chr1:65153886-65171767	15.882
Ly6g6e	0	0	0	12	0.2	0.293073	0.194946	Unclassified	chr17:35211886-35215749	1.864
Cyp4v3	0	0	0	172	2.866667	4.3892	35.4804	Stalled	chr8:46391155-46420550	27.396
Rnf152	0	0	0	86	1.433333	0.288429	2.545109	Unclassified	chr1:107173495-107255287	79.793
Agphd1	0	0	0	79	1.316667	1.27062	31.26087	Stalled	chr9:54763096-54797731	32.636
Olf1015	0	0	0	0	0	0.027298	0	Unclassified	chr2:85623630-85626646	1.017
Abhd6	0	0	0	208	3.466667	2.5239	17.12977	Stalled	chr14:8833415-8889069	53.655
Nmur2	0	0	0	17	0.283333	0.015649	1.666617	Unclassified	chr11:55838491-55856489	15.999
Gm13363	0	0	0	431	7.183333	0	27.34255	Unclassified	chr1:30998436-31008555	8.12
Eif3f	0	0	0	410	6.833333	147.674	3.456879	Unclassified	chr7:116075928-116085456	7.529
Fnip1	0	0	0	536	8.933333	1.85482	34.11917	Stalled	chr11:54249680-54331743	80.064
Spred3	0	0	0	59	0.983333	1.26683	1.625973	Unclassified	chr7:29943847-29955666	9.82
Pld1	0	0	0	124	2.066667	0.267656	1.101017	Unclassified	chr3:27881092-28032284	149.193
Pld2	0	0	0	52	0.866667	0.630439	8.286952	Unclassified	chr11:70351665-70371612	17.948
Ppp2r5d	0	0	0	430	7.166667	22.2291	13.46265	Unclassified	chr17:46819940-46843951	22.012
4931406P16Rik	0	0	0	208	3.466667	2.89368	0	Unclassified	chr7:35021732-35072628	48.897
Prr9	0	0	0	1	0.016667	0.08667	0	Unclassified	chr3:91926125-91929869	1.745
Kctd15	0	0	0	24	0.4	0.053158	1.209012	Unclassified	chr7:35424035-35439860	13.826
Ankrd23	0	0	0	79	1.316667	1.80337	1.42138	Elongating	chr1:36587378-36594574	5.197
Olf1009	0	0	0	0	0	0	0	Unclassified	chr2:85559563-85562508	0.946
9130409I23Rik	0	0	0	11	0.183333	0.057373	0	Unclassified	chr1:182979367-182990798	9.432
Sfpq	0	0	0	1387	23.11667	78.8184	5.308855	Unclassified	chr4:126696544-126708479	9.936
4930471M23Rik	0	0	0	298	4.966667	3.28864	6.912289	Unclassified	chr5:30948311-30962102	11.792
Zc3hc1	0	0	0	360	6	15.3196	11.22637	Unclassified	chr6:30316387-30343010	24.624
E130303B06Rik	0	0	0	97	1.616667	9.12214	1.744877	Elongating	chr8:108227551-108234068	4.518
Tspan33	0	0	0	67	1.116667	1.60268	6.388895	Unclassified	chr6:29642255-29668558	24.304

Gchfr	0	0	0	59	0.983333	1.26329	0.698215	Unclassified	chr2:118991523-118998125	4.603
Atfp6v1h	0	0	0	556	9.266667	9.85709	24.31069	Unclassified	chr1:5071253-5152630	79.378
Aifm1	0	0	0	256	4.266667	17.0803	30.7043	Stalled	chrX:45828120-45868603	38.484
Foxl2	0	0	0	10	0.166667	0.218865	0	Unclassified	chr9:98854025-98858543	2.519
Btaf1	0	0	0	1032	17.2	4.53281	43.31462	Unclassified	chr19:36998568-37088547	87.98
Spata2	0	0	0	551	9.183333	8.54669	9.166587	Unclassified	chr2:167306635-167320374	11.74
Cpa6	0	0	0	179	2.983333	0.039844	0	Unclassified	chr1:10314807-10712024	395.218
Smc5	0	0	0	574	9.566667	8.70675	20.18091	Unclassified	chr19:23283221-23350367	65.147
1300010F03Rik	0	0	0	1210	20.16667	3.61456	36.51026	Stalled	chr14:79246984-79602115	353.132
Trpm3	0	0	0	515	8.583333	0.049197	3.124681	Unclassified	chr19:22211606-23064374	850.769
Fam92a	0	0	0	121	2.016667	7.51668	12.24104	Stalled	chr4:12080868-12101162	18.295
Trim37	0	0	0	785	13.08333	6.44268	35.87602	Unclassified	chr11:86938578-87034184	93.607
Smarcc2	0	0	0	767	12.78333	23.4259	6.457328	Unclassified	chr10:127894291-127927230	30.94
I1C0022H11Rik	0	0	0	6	0.1	0.124211	1.543457	Unclassified	chr7:50430957-50447479	14.523
Dynll2	0	0	0	300	5	32.611	12.07005	Unclassified	chr11:87793027-87803035	8.009
Thyn1	0	0	0	121	2.016667	7.12188	9.922995	Unclassified	chr9:26805261-26814919	7.659
Fam71e2	0	0	0	31	0.516667	0.047751	0.791906	Unclassified	chr7:4704830-4724872	18.043
Best2	0	0	0	36	0.6	0.391987	0.279506	Unclassified	chr8:87531101-87540307	7.207
Rpl39	0	0	0	521	8.683333	0	3.610367	Unclassified	chrX:34622514-34627179	2.666
4933422H20Rik	0	0	0	9	0.15	0.079605	1.056974	Unclassified	chr11:115299858-115309582	7.725
Lce1h	0	0	0	1	0.016667	0.027209	1	Unclassified	chr3:92567136-92570987	1.852
Lipf	0	0	0	10	0.166667	0.018945	0	Unclassified	chr19:34033737-34051303	15.567
2810474019Rik	0	0	0	664	11.06667	3.97816	14.89043	Unclassified	chr6:149255935-149284185	26.251
2010106E10Rik	0	0	0	17	0.283333	0	0	Unclassified	chrX:109606882-109671952	63.071
Smc6	0	0	0	754	12.56667	5.7532	53.05404	Unclassified	chr12:11270691-11326591	53.901
Gemin6	0	0	0	256	4.266667	12.06	32.04048	Stalled	chr17:80621828-80627837	4.901
Mreg	0	0	0	922	15.36667	6.7811	9.006059	Unclassified	chr1:72205807-72260881	53.075
Bbs7	0	0	0	88	1.466667	0.942095	22.57131	Stalled	chr3:36472064-36514311	40.248
4832428D23Rik	0	0	0	10	0.166667	0.036261	0	Unclassified	chr1:44260914-44277776	14.863
Gm973	0	0	0	194	3.233333	0.167557	0	Unclassified	chr1:59571107-59691353	118.247
Acsf6	0	0	0	90	1.5	0.153694	1.600852	Unclassified	chr11:54115325-54175041	57.717
Sic27a1	0	0	0	121	2.016667	3.1218	0.277903	Unclassified	chr8:74090825-74110607	17.783
Gp5	0	0	0	62	1.033333	3.3363	1.581314	Unclassified	chr16:30307778-30312865	3.088
Rasl11a	0	0	0	10	0.166667	1.59319	1.812415	Unclassified	chr5:147654646-147659302	2.657
Akirin2	0	0	0	370	6.166667	23.5348	13.03929	Unclassified	chr4:34495863-34514157	16.295
Dtx4	0	0	0	234	3.9	1.78425	4.022462	Unclassified	chr19:12540825-12578486	35.662
Cd177	0	0	0	22	0.366667	0.018889	0.446548	Unclassified	chr7:25529001-25547330	16.33
Vwa5b1	0	0	0	222	3.7	1.33614	0	Unclassified	chr4:138124884-138181907	55.024
Gp1ba	0	0	0	77	1.283333	0.244154	0.567791	Unclassified	chr11:70450623-70455557	2.935
Lrp2	0	0	0	137	2.283333	0.051352	5.080552	Unclassified	chr2:69262391-69426124	161.734
Sgol2	0	0	0	283	4.716667	3.66135	30.84631	Stalled	chr1:58050817-58083121	30.305
Mbd3l2	0	0	0	6	0.1	0.029764	0	Unclassified	chr9:18233058-18250758	15.701
4631416L12Rik	0	0	0	227	3.783333	0.216683	1.421947	Unclassified	chr3:62140698-62266143	123.446
Synpr	0	0	0	188	3.133333	0.05308	0	Unclassified	chr14:14115293-14447982	330.69
Fxc1	0	0	0	296	4.933333	33.5044	257	Unclassified	chr7:112787053-112790359	1.307
Ckmt2	0	0	0	40	0.666667	0.060373	0.365854	Unclassified	chr13:91992991-92018490	23.5
Nrbp1	0	0	0	350	5.833333	15.7658	18.91442	Unclassified	chr5:31541290-31553935	10.646
Ube2s	0	0	0	563	9.383333	90.5881	8.046308	Unclassified	chr7:4759615-4765942	4.328
Tas2r136	0	0	0	3	0.05	0.039074	0	Unclassified	chr6:132727196-132730180	0.985
Nnt	0	0	0	291	4.85	5.00432	41.97598	Stalled	chr13:120124333-12019945	73.613
Olfr1408	0	0	0	3	0.05	0.020589	3	Unclassified	chr1:175060413-175063346	0.934
Shisa3	0	0	0	30	0.5	0.95541	3.831329	Unclassified	chr5:67997121-68003511	4.391
Nnat	0	0	0	37	0.616667	0.440486	0.818482	Unclassified	chr2:157383845-157388255	2.411
Olfr672	0	0	0	1	0.016667	0.020457	0	Unclassified	chr7:112144477-112147416	0.94
Olfr214	0	0	0	4	0.066667	0.093161	2	Unclassified	chr6:116504444-116507407	0.964
Olfr1013	0	0	0	0	0	0	0	Unclassified	chr2:85607959-85610877	0.919
Olfr608	0	0	0	0	0	0.026953	0	Unclassified	chr7:110616554-110619505	0.952
Olfr551	0	0	0	5	0.083333	0	3	Unclassified	chr7:109736307-109739255	0.949
Olfr678	0	0	0	1	0.016667	0	0	Unclassified	chr7:112215982-112218924	0.943
Nodal	0	0	0	15	0.25	0.25077	0.693309	Unclassified	chr10:60878719-60888085	7.367
Cd3g	0	0	0	5	0.083333	0.187923	1.66276	Unclassified	chr9:44777654-44790514	10.861
Sntb2	0	0	0	210	3.5	1.24575	22.79399	Stalled	chr8:109457649-109538092	78.444
Cd209c	0	0	0	5	0.083333	0.016537	0	Unclassified	chr8:3940221-3948863	6.643
Pax1	0	0	0	13	0.216667	0.097241	1.002991	Unclassified	chr2:147188729-147200782	10.054
Mfi2	0	0	0	64	1.066667	0.133374	5.191198	Unclassified	chr16:31876895-31899105	20.211
Cul5	0	0	0	733	12.21667	4.80189	40.70684	Unclassified	chr9:53422686-53477612	52.927
Olfr125	0	0	0	3	0.05	0.034391	3	Unclassified	chr17:37969855-37972973	1.119
D130043K22Rik	0	0	0	140	2.333333	0.172532	18.6259	Stalled	chr13:24934999-24993139	56.141
Olfr122	0	0	0	0	0	0.007964	0	Unclassified	chr17:37906572-37909565	0.994
Olfr114	0	0	0	1	0.016667	0.027298	0	Unclassified	chr17:37726357-37729296	0.94
Olfr981	0	0	0	1	0.016667	0.054947	0	Unclassified	chr9:39827979-39830912	0.934
Olfr801	0	0	0	3	0.05	0	0	Unclassified	chr10:129106616-129109573	0.958
Olfr780	0	0	0	1	0.016667	0	1	Unclassified	chr10:128756680-128759619	0.94
Olfr1366	0	0	0	1	0.016667	0.040816	0	Unclassified	chr13:21628842-21631896	1.055
2310008H04Rik	0	0	0	674	11.23333	3.66997	37.35436	Stalled	chr16:15889319-16148926	257.608
Laptm4b	0	0	0	93	1.55	2.60722	9.192406	Unclassified	chr15:34165780-34214050	46.271
Cstf3	0	0	0	884	14.73333	15.9398	19.46547	Unclassified	chr2:104428640-104505582	74.943
Olfr1324	0	0	0	0	0	0	0	Unclassified	chrX:47778672-47781671	1
Olfr1484	0	0	0	1	0.016667	0.009524	1	Unclassified	chr19:13657795-13660743	0.949
Olfr1018	0	0	0	3	0.05	0.041078	3	Unclassified	chr2:85661129-85664065	0.937
Cml2	0	0	0	2	0.033333	0.083487	0	Unclassified	chr6:85815415-85821131	3.717
Tac4	0	0	0	305	5.083333	0.092214	0.368061	Unclassified	chr11:95120842-95130575	7.734
Akap14	0	0	0	94	1.566667	0.064368	0.323064	Unclassified	chrX:34690692-34710837	18.146
Hist1h2an	0	0	0	271	4.516667	0	253	Unclassified	chr13:21878694-21881087	0.394
Hist1h2af	0	5.987342	0	163	2.716667	0	152	Unclassified	chr13:23623779-23626172	0.394
Hist1h2ab	0	0	0	317	5.283333	0	313	Unclassified	chr13:23840956-23843462	0.507

Olf1033	0	0	0	6	0.1	0.013688	0	Unclassified	chr2:85858796-85884965	24.17
Olf1043	0	0	0	1	0.016667	0	1	Unclassified	chr2:86002159-86005104	0.946
Olf1020	0	0	0	1	0.016667	0	0	Unclassified	chr2:85687610-85690564	0.955
Rmem114	0	0	0	28	0.466667	0.118501	0.363712	Unclassified	chr16:8409368-8427229	15.862
Rhox4c	0	0	0	2	0.033333	0.005838	0.791188	Unclassified	chrX:34892843-34899631	4.789
Gck	0	0	0	80	1.333333	0.199809	0	Unclassified	chr11:5800825-5851602	48.778
Prosc	0	0	0	416	6.933333	9.38344	13.17577	Unclassified	chr8:28151026-28166604	13.579
4931409K22Rik	0	0	0	20	0.333333	0.05926	0	Unclassified	chr5:24049251-24063287	12.037
Vdac3	0	0	0	571	9.516667	16.6129	36.21496	Unclassified	chr8:23687572-23706230	16.659
Vcl	0	0	0	410	6.833333	2.05844	33.36338	Stalled	chr14:21746654-21852895	104.242
Amfr	0	0	0	720	12	23.1693	9.555839	Unclassified	chr8:96495487-96538540	41.054
Mtap9	0	0	0	87	1.45	0.253409	9.991168	Unclassified	chr3:82159993-82199190	37.198
Tmem159	0	0	0	44	0.733333	1.52572	6.450393	Unclassified	chr7:127243939-127264500	18.562
4833424O15Rik	0	0	0	40	0.666667	0.031692	1.506821	Unclassified	chr3:117276378-117392424	114.047
Ii18r1	0	0	0	31	0.516667	0.254595	2.262293	Unclassified	chr1:40520850-40557698	34.849
Bnpl1	0	0	0	60	1	0.082261	1.426854	Unclassified	chr3:95045216-95057115	9.9
Olf1049	0	0	0	0	0	0.027618	0	Unclassified	chr2:86094921-86097848	0.928
Kcnf1	0	0	0	8	0.133333	0.141898	1.459168	Unclassified	chr12:17178907-17185694	4.788
Pik3cb	0	0	0	149	2.483333	0.479192	6.114761	Unclassified	chr9:98938820-99042630	101.811
Olf955	0	0	0	2	0.033333	0	1	Unclassified	chr9:39277364-39280309	0.946
Gm15091	0	0	0	1	0.016667	0	0	Unclassified	chrX:146374197-146419525	43.329
Mdga1	0	0	0	135	2.25	0.365843	2.549171	Unclassified	chr17:29964902-30026827	59.926
Olf765	0	0	0	0	0	0	0	Unclassified	chr10:128483187-128486117	0.931
Klc4	0	0	0	62	1.033333	3.59873	1.836455	Unclassified	chr17:46767579-46784093	14.515
Psap1	0	0	0	15	0.25	0.100639	2.232156	Unclassified	chr5:36544669-36549216	2.548
Lypd5	0	0	0	9	0.15	0.041122	1.423335	Unclassified	chr7:25132242-25138852	4.611
Arhgap22	0	0	0	288	4.8	0.083864	2.458481	Unclassified	chr14:34028008-34183122	153.115
Tanc2	0	0	0	736	12.26667	1.70301	10.50763	Stalled	chr11:105449299-105790617	339.319
Ocel1	0	0	0	378	6.3	6.62099	14.11323	Unclassified	chr8:73893196-73897587	2.392
1700080E11Rik	0	0	0	3	0.05	0	0.270073	Unclassified	chr9:105045673-105049412	1.74
Vmn2r5	0	0	0	2	0.033333	0.001061	0	Unclassified	chr3:64294742-64313607	16.866
Olf591	0	0	0	0	0	0.020327	0	Unclassified	chr7:110321204-110324149	0.946
2410137M14Rik	0	0	0	38	0.633333	1.22977	1.241177	Unclassified	chr17:37114645-37120182	3.538
Gon4l	0	0	0	510	8.5	10.2057	6.792866	Unclassified	chr3:88637149-88714020	74.872
Prpf39	0	0	0	449	7.483333	6.33782	16.29192	Unclassified	chr12:66135320-66164373	27.054
Npm2	0	0	0	24	0.4	0.102839	1.04986	Unclassified	chr14:71047108-71054891	5.784
Klk1b11	0	0	0	6	0.1	0.035894	0	Unclassified	chr7:51249248-51255245	3.998
Klk1	0	0	0	4	0.066667	0.020649	0	Unclassified	chr7:51478806-51484987	4.182
Ebag9	0	0	0	400	6.666667	9.58808	46.83553	Stalled	chr15:44449186-44472572	21.387
Klk1b21	0	0	0	5	0.083333	0.011702	0	Unclassified	chr7:51355661-51361947	4.287
Klk1b16	0	0	0	9	0.15	0.018561	1.302975	Unclassified	chr7:51390136-51396974	4.839
Erc5	0	0	0	411	6.85	3.28221	54.89962	Stalled	chr1:44202588-44238105	33.518
Slc6a20b	0	0	0	81	1.35	0.060394	1.719728	Unclassified	chr9:123502937-123543683	38.747
Slc6a18	0	0	0	26	0.433333	0.013584	0.79814	Unclassified	chr13:73799198-73817471	16.274
Cxcr4	0	0	0	705	11.75	8.74538	3.18211	Unclassified	chr1:130484775-130490876	4.102
Cxcr3	0	0	0	4	0.066667	0.326563	3	Unclassified	chrX:98926874-98931486	2.613
Cxcr2	0	0	0	7	0.116667	0.022791	0.510364	Unclassified	chr1:74198567-74207820	7.254
Cmas	0	0	0	503	8.383333	19.0532	4.228498	Unclassified	chr6:142703205-142724232	19.028
Fam73a	0	0	0	431	7.183333	2.24355	18.81995	Stalled	chr3:151936425-152005371	66.947
Vwa2	0	0	0	47	0.783333	0.072632	0.448962	Unclassified	chr19:56946905-56986568	37.664
Ube3c	0	0	0	806	13.43333	4.64898	28.56591	Unclassified	chr5:29893781-30002617	106.837
Gm4792	0	0	0	7	0.116667	0.089126	0.443703	Unclassified	chr10:93756414-93763401	4.988
Lpin2	0	0	0	450	7.5	3.24417	7.978881	Unclassified	chr17:71531317-71599158	65.842
Lpin3	0	0	0	37	0.616667	0.068044	0.828818	Unclassified	chr2:160704468-160731528	25.061
Mta1	0	0	0	1208	20.13333	25.4352	2.600883	Elongating	chr12:114334488-114375417	38.93
Olf417	0	0	0	1	0.016667	0.027497	1	Unclassified	chr1:176297049-176299979	0.931
Suhw4	0	0	0	957	15.95	2.71827	30.79666	Unclassified	chr9:72120705-72211578	88.874
Speer2	0	0	0	11	0.183333	0	0.394836	Unclassified	chr16:69857118-69865989	6.872
Jub	0	0	0	39	0.65	0.49185	2.10829	Unclassified	chr14:55186308-55198253	9.946
Ush1g	0	0	0	23	0.383333	0.092609	0.871046	Unclassified	chr11:115176505-115185232	6.728
Glpr2	0	0	0	175	2.916667	0.107877	0	Unclassified	chr11:67519933-67586655	64.723
Acad5b	0	0	0	192	3.2	3.03974	58.99777	Stalled	chr7:138552114-138589724	35.611
Ttil7	0	0	0	101	1.683333	0.025258	0.564052	Unclassified	chr3:146513330-146645714	130.385
Pcdhb21	0	0	0	1	0.016667	0.107724	0	Unclassified	chr18:37671305-37676017	2.713
Pcdhb22	0	0	0	2	0.033333	0.159162	0	Unclassified	chr18:37676006-37681073	3.068
Mycbpap	0	0	0	49	0.816667	0.41583	3.351645	Unclassified	chr11:94362660-94384816	20.157
Pcdhb20	0	0	0	5	0.083333	0.020416	0.545248	Unclassified	chr18:37661917-37667314	3.398
Olf23	0	0	0	4	0.066667	0.026209	3	Unclassified	chr11:73751749-73754727	0.979
Hhip1	0	0	0	30	0.5	0.162357	0.87575	Unclassified	chr12:109542479-109566510	22.032
Mlph	0	0	0	52	0.866667	0.034307	0	Unclassified	chr1:92809676-92847718	36.043
Tomm22	0	0	0	184	3.066667	37.2996	6.280223	Unclassified	chr15:79499297-79503292	1.996
Gm381	0	0	0	2	0.033333	0	1	Unclassified	chrX:123440112-123444149	2.038
Eif3l	0	0	0	782	13.03333	68.5051	8.768137	Unclassified	chr15:78903652-78924830	19.179
Btbd2	0	0	0	596	9.933333	6.53475	1.40997	Elongating	chr10:80105361-80121816	14.456
Olf24	0	0	0	0	0	0	0	Unclassified	chr9:18559135-18562077	0.943
Fbxo3	0	0	0	362	6.033333	10.5924	13.49367	Unclassified	chr2:103865955-103903394	35.44
Fabp12	0	0	0	234	3.9	0.086735	0.989059	Unclassified	chr3:10244208-10303183	56.976
Exog	0	0	0	496	8.266667	2.81812	10.4902	Unclassified	chr9:119352077-119374635	20.559
Ipmk	0	0	0	742	12.36667	6.7258	28.57433	Unclassified	chr10:70808540-70848633	38.094
Iffo1	0	0	0	1167	19.45	10.1227	2.419285	Elongating	chr6:125093258-125111800	16.543
Cdh12	0	0	0	161	2.683333	0.027274	0	Unclassified	chr15:21039206-21519288	478.083
Neil2	0	0	0	232	3.866667	0.011419	1.145391	Unclassified	chr15:95049880-95361137	309.258
Pin4	0	0	0	130	2.166667	6.95264	6.651094	Unclassified	chrX:99312803-99323012	8.21
Tagln	0	0	0	246	4.1	0	1.609034	Elongating	chr9:45737710-45745981	6.272
Ii1f5	0	0	0	10	0.166667	0.027741	0	Unclassified	chr2:24130473-24137952	5.48
Fn3k	0	0	0	25	0.416667	0.585379	3.332438	Unclassified	chr11:121294266-121311803	15.538

5730508B09Rik	0	0	0	192	3.2	3.32556	15.01028	Stalled	chr3:127572605-127601241	26.637
Tal1	0	0	0	18	0.3	0.193961	0.412413	Unclassified	chr4:114730131-114744360	12.23
Nt5c3	0	0	0	602	10.03333	8.40727	15.43583	Unclassified	chr6:56832394-56875926	41.533
Tmem180	0	0	0	215	3.583333	7.36283	11.42347	Unclassified	chr19:46429369-46449744	18.376
Olfm1	0	0	0	106	1.766667	1.73418	0.528616	Unclassified	chr2:28046612-28086256	37.645
Tmem67	0	0	0	152	2.533333	1.93794	11.77919	Stalled	chr4:11966505-12017104	48.6
Actn4	0	0	0	1454	24.23333	49.5584	16.02922	Unclassified	chr7:29678272-29749299	69.028
Capn12	0	0	0	173	2.883333	0.077871	0.183272	Unclassified	chr7:29664674-29678604	11.931
Gucy1a3	0	0	0	39	0.65	0.088142	0	Unclassified	chr3:81896349-81951799	53.451
Cdh1	0	0	0	88	1.466667	0.342691	2.766517	Unclassified	chr8:109125267-109194146	66.88
P2rx5	0	0	0	272	4.533333	0.318854	1.244254	Elongating	chr11:72972031-72986191	12.161
Clmn	0	0	0	142	2.366667	0.055293	0	Unclassified	chr12:106001323-106105286	101.964
Allc	0	0	0	23	0.383333	0.043892	0	Unclassified	chr12:29238619-29269348	28.73
Tm2d1	0	0	0	334	5.566667	4.64403	18.41228	Unclassified	chr4:98022060-98051956	27.897
Atn1	0	0	0	703	11.71667	0	1.907632	Elongating	chr6:124692561-124708505	13.945
Drd3	0	0	0	65	1.083333	0.086016	0	Unclassified	chr16:43760354-43822952	60.599
Drd4	0	0	0	11	0.183333	0.479653	0.665889	Unclassified	chr7:148475904-148480900	2.997
Drp2	0	0	0	32	0.533333	0.135817	0.644648	Unclassified	chrX:130937318-130991112	51.795
Drg1	0	0	0	879	14.65	31.6145	27.23714	Unclassified	chr11:3149924-3168389	16.466
Hibadh	0	0	0	649	10.81667	10.4962	37.01016	Stalled	chr6:52496223-52529294	94.072
Optn	0	0	0	361	6.016667	5.69887	7.939727	Unclassified	chr2:4941687-4986984	43.298
Pak1	0	0	0	51	0.85	0.62793	8.51913	Unclassified	chr7:104989448-105060891	69.444
Pah	0	0	0	48	0.8	0.053825	1.175803	Unclassified	chr10:86982539-87046882	62.344
Fbln1	0	0	0	125	2.083333	0.083941	2.399177	Unclassified	chr15:85034437-85116724	80.288
Pafah1b2	0	0	0	506	8.433333	9.93795	14.30141	Unclassified	chr9:45773393-45794954	19.562
Kctd6	0	0	0	140	2.333333	1.43231	14.41425	Stalled	chr14:9044661-9056083	9.423
Fbn2	0	0	0	159	2.65	0.069707	1.686519	Unclassified	chr18:58168276-58371580	201.305
5430419D17Rik	0	0	0	60	1	0.008754	0	Unclassified	chr7:138315915-138394459	76.545
E130309D02Rik	0	0	0	872	14.53333	23.9442	8.034915	Unclassified	chr5:144062750-144079039	14.29
Pafah1b1	0	0	0	1239	20.65	16.8664	33.48394	Unclassified	chr11:74487451-74539886	50.436
Grhl3	0	0	0	78	1.3	0.138355	0.586896	Unclassified	chr4:135097802-135131535	31.734
Ccdc43	0	0	0	340	5.666667	9.62796	22.1322	Unclassified	chr11:102546001-102561039	13.039
Zkscan6	0	0	0	489	8.15	3.77366	19.47326	Unclassified	chr11:65618745-65642741	21.997
Ltbr	0	0	0	19	0.316667	0.147032	1.632299	Unclassified	chr6:125256588-125265888	7.301
Nat8	0	0	0	2	0.033333	0.027923	0	Unclassified	chr6:85780381-85783884	1.504
Rerg	0	0	0	133	2.216667	0.157344	0.474497	Unclassified	chr6:137003345-137121017	115.673
H2afj	0	0	0	480	8	82.0158	4.307052	Unclassified	chr6:136754768-136758595	1.828
Dapk2	0	0	0	341	5.683333	2.91911	2.825334	Unclassified	chr9:66004032-66120049	114.018
Sparc	0	0	0	37	0.616667	0.22268	1.303317	Unclassified	chr11:55208002-55235582	25.581
Spam1	0	0	0	5	0.083333	0	0	Unclassified	chr6:24739198-24751048	9.851
Mafb	0	0	0	19	0.316667	0.302539	2.036209	Unclassified	chr2:160189412-160194801	3.39
Lrrc57	0	0	0	345	5.75	9.86923	41.7851	Stalled	chr2:120429975-120437244	5.27
Zxdb	0	0	0	17	0.283333	2.60613	0	Unclassified	chrX:91967907-91975530	5.624
Snx19	0	0	0	522	8.7	5.9507	10.62064	Unclassified	chr9:30232913-30274311	39.399
Penk	0	0	0	10	0.166667	0.154304	2.829547	Unclassified	chr4:4060682-4067592	4.911
Prss43	0	0	0	5	0.083333	0.03217	0	Unclassified	chr9:110727193-110734008	4.816
Tas2r116	0	0	0	1	0.016667	0	0	Unclassified	chr6:132803455-132806373	0.919
Plip	0	0	0	325	5.416667	0.393513	1.672438	Elongating	chr8:97198794-97222142	21.349
Etv4	0	0	0	163	2.716667	0.817327	5.423808	Unclassified	chr11:101631055-101648624	15.57
Fzef2	0	0	0	9	0.15	0.122378	0.746082	Unclassified	chr14:13174405-13180379	3.975
Gm1564	0	0	0	17	0.283333	0.039237	0.51062	Unclassified	chr11:102524901-102543551	16.651
Lsm12	0	0	0	661	11.01667	21.0435	11.31259	Unclassified	chr11:102024802-102048570	21.769
Selenbp2	0	0	0	8	0.133333	0.611007	0	Unclassified	chr3:94495494-94508328	10.835
Spp2	0	0	0	16	0.266667	0	0.568181	Unclassified	chr1:90301593-90323013	19.421
Nagpa	0	0	0	335	5.583333	12.142	11.33387	Unclassified	chr16:5195372-5206105	8.734
Si	0	0	0	106	1.766667	0.646205	2.11005	Unclassified	chr10:128141313-128157294	13.982
E030025P04Rik	0	0	0	11	0.183333	0.059445	1.619048	Unclassified	chr11:109006064-109007683	5.08
Defb35	0	0	0	1	0.016667	0	0	Unclassified	chr8:23046823-23051350	2.528
Defb15	0	0	0	4	0.066667	0.058034	1.310107	Unclassified	chr8:23040284-23045182	2.899
Fam167b	0	0	0	28	0.466667	1.52058	0.286087	Unclassified	chr4:129254058-129257824	1.767
Siah1b	0	0	0	284	4.733333	2.91056	15.587	Unclassified	chrX:160508634-160515981	5.348
Siah2	0	0	0	1263	21.05	39.7461	12.23112	Unclassified	chr3:58478870-58498310	17.441
Oma1	0	0	0	312	5.2	4.18931	51.41531	Stalled	chr4:102984450-103039033	52.584
V1r18	0	0	0	1	0.016667	0	0	Unclassified	chr13:22236389-22239394	1.006
Tspan8	0	0	0	18	0.3	0.360298	1.386113	Unclassified	chr10:115252339-115286949	32.611
V1r11	0	0	0	0	0	0.028386	0	Unclassified	chr13:22279014-22281917	0.904
Lrrc3	0	0	0	16	0.266667	0.214799	1.325086	Unclassified	chr10:77360319-77367281	4.963
V1rg1	0	0	0	0	0	0.027831	0	Unclassified	chr7:12254947-12257868	0.922
Apis3	0	0	0	831	13.85	5.00379	15.45411	Unclassified	chr1:79603450-79670547	65.098
Cytsb	0	0	0	187	3.116667	0.384896	4.089647	Unclassified	chr11:61888598-62036515	145.918
Rras2	0	0	0	717	11.95	11.6198	12.18336	Unclassified	chr7:121190295-121263295	71.001
1500001M20Rik	0	0	0	385	6.416667	14.5222	13.58191	Unclassified	chr6:114954398-114989892	33.495
Med27	0	0	0	1790	29.83333	16.6518	10.51049	Unclassified	chr2:29200355-29380308	177.954
Bprm1	0	0	0	1447	24.11667	6.36796	55.30372	Unclassified	chr14:31830323-31934778	102.456
Acsm5	0	0	0	11	0.183333	0.02058	0.616814	Unclassified	chr7:126667778-126686874	17.097
Igf2bp2	0	0	0	183	3.05	0.40422	0.363331	Unclassified	chr16:22059081-22165372	104.292
Atp10b	0	0	0	138	2.3	0.068646	0	Unclassified	chr11:42961378-43075787	112.41
Crygf	0	0	0	2	0.033333	0	2	Unclassified	chr1:65971095-65974878	1.784
Cryge	0	0	0	4	0.066667	0.019916	1.233129	Unclassified	chr1:65095130-65099737	2.608
Crygb	0	0	0	1	0.016667	0	0	Unclassified	chr1:65126800-65130841	2.042
Trmt6	0	0	0	519	8.65	10.8054	16.11746	Unclassified	chr2:132629950-132643790	11.841
Crygc	0	0	0	3	0.05	0	0	Unclassified	chr1:65118105-65122095	1.991
Crybb2	0	0	0	12	0.2	0	1.085871	Unclassified	chr5:113487284-113499786	10.503
Crybb3	0	0	0	9	0.15	0.152374	0.973938	Unclassified	chr5:113504859-113512604	5.746
Rarb	0	0	0	211	3.516667	0.041581	0.81607	Unclassified	chr14:17263353-17409724	144.372
Zfp609	0	0	0	820	13.66667	2.78802	11.03855	Unclassified	chr9:65539389-65677371	135.983

Olf1000	0	0	0	1	0.016667	0.040687	0	Unclassified	chr2:85448120-85451065	0.946
Sh3rf2	0	0	0	90	1.5	0.07108	0.541636	Unclassified	chr18:42211363-42318349	104.987
Speer3	0	0	0	3	0.05	0	0.677523	Unclassified	chr5:13789618-13796819	5.202
Spats1	0	0	0	87	1.45	0.961224	7.441103	Unclassified	chr17:45585885-45613887	26.003
Zfp385b	0	0	0	268	4.466667	0.095161	0	Unclassified	chr2:77248688-77656873	406.186
Stk32a	0	0	0	86	1.433333	0.023829	2.280796	Unclassified	chr18:43365350-43477135	109.786
Gm839	0	0	0	3	0.05	0.106095	0	Unclassified	chr6:89162239-89168073	3.835
C1ql4	0	0	0	43	0.716667	0.857997	0.380351	Unclassified	chr15:98915184-98920159	2.976
Maob	0	0	0	26	0.433333	0.021263	0	Unclassified	chrX:16286407-16396492	108.086
Anks3	0	0	0	685	11.41667	7.55476	10.41606	Unclassified	chr16:4941419-4966330	22.912
Rtf1	0	0	0	688	11.46667	9.3121	20.2443	Unclassified	chr2:119498803-119561142	60.34
Dpcc1	0	0	0	12	0.2	0.776449	0	Unclassified	chr17:35772699-35782640	7.942
AI836003	0	0	0	9	0.15	0.693064	2.283262	Unclassified	chr15:97996236-98000565	2.33
Atg2b	0	0	0	1020	17	5.55865	16.54282	Unclassified	chr12:106851748-106925451	71.704
Prmt2	0	0	0	129	2.15	3.21451	32.64643	Stalled	chr10:75669966-75702610	30.645
Hoxa2	0	0	0	5	0.083333	0.266848	0.305877	Unclassified	chr6:52112509-52116830	2.322
B63005N14Rik	0	0	0	469	7.816667	2.89037	39.10894	Stalled	chr6:13575674-13629966	52.293
Zc3h18	0	0	0	1357	22.61667	26.8477	11.11083	Unclassified	chr8:124898515-124941260	40.746
Hr	0	0	0	55	0.916667	0.128543	0.860067	Unclassified	chr14:70951862-70973349	19.488
Agfg1	0	0	0	918	15.3	21.1592	12.94014	Unclassified	chr1:82834057-82892850	56.794
Hrh1	0	0	0	102	1.7	0.013555	0	Unclassified	chr6:114345929-114433290	85.362
Icosl	0	0	0	107	1.783333	1.49684	8.34655	Unclassified	chr10:77530112-77542270	10.159
Dkkl1	0	0	0	47	0.783333	4.51721	8.254835	Unclassified	chr7:52462895-52469253	4.359
Trim47	0	0	0	22	0.366667	0.506708	1.260664	Unclassified	chr11:115967139-115973330	4.192
Tmem150b	0	0	0	30	0.5	0.639842	0.802423	Unclassified	chr7:4658433-4678853	18.421
Mcm8	0	0	0	429	7.15	3.17343	58.94539	Stalled	chr2:132640070-132669924	27.855
Fbf1	0	0	0	257	4.283333	4.49997	9.637824	Unclassified	chr11:116003598-116031492	25.895
Nlrp9b	0	0	0	26	0.433333	0.017242	0.683211	Unclassified	chr7:20591371-20648287	54.917
Btbd7	0	0	0	521	8.683333	2.53861	22.76391	Stalled	chr12:104022857-104118616	93.76
Sdsl	0	0	0	26	0.433333	0	1.112846	Unclassified	chr5:120908210-120924772	14.563
Olf1944	0	0	0	2	0.033333	0.027353	0	Unclassified	chr9:39022943-39025879	0.937
Mboat4	0	0	0	21	0.35	0.870954	0	Unclassified	chr8:35176083-35188239	10.157
Mapksp1	0	0	0	280	4.666667	10.0451	11.1059	Unclassified	chr3:137579518-137591726	10.209
Zfp518b	0	0	0	169	2.816667	0.551422	7.250612	Unclassified	chr5:39059718-39077989	16.272
Speer4e	0	0	0	2	0.033333	0	0.793644	Unclassified	chr5:14933630-14940475	4.846
Gaintl5	0	0	0	37	0.616667	0.048091	1.083239	Unclassified	chr5:24685297-24726107	38.811
Mlycd	0	0	0	451	7.516667	6.04063	20.16083	Unclassified	chr8:121916791-121934988	16.198
Mmgt2	0	0	0	259	4.316667	5.05635	8.510044	Unclassified	chr11:62460165-62479861	17.697
Crn	0	0	0	4	0.066667	0.023617	0	Unclassified	chr3:92946708-92953393	4.686
Stac	0	0	0	116	1.933333	0.056056	1.598739	Unclassified	chr9:111463937-111594720	128.784
Rc3h2	0	0	0	614	10.23333	0.864866	37.49008	Unclassified	chr2:37225590-37280423	52.834
St8sia6	0	0	0	736	12.26667	5.46813	27.41631	Stalled	chr2:13576564-13717147	138.584
Zfp503	0	0	0	17	0.283333	0.547037	0.557779	Unclassified	chr14:22803183-22810823	5.641
Dgkb	0	0	0	282	4.7	0.030053	0	Unclassified	chr12:38605291-39359997	752.707
4932435O22Rik	0	0	0	124	2.066667	0.075346	0.443299	Unclassified	chr11:114274718-114312174	35.457
Gkn3	0	0	0	11	0.183333	0.242427	0.73197	Unclassified	chr6:87333312-87340929	5.618
Fam168b	0	0	0	1157	19.28333	29.9847	7.818943	Unclassified	chr1:34870063-34901895	29.833
Dennd4c	0	0	0	326	5.433333	2.87675	18.72308	Stalled	chr4:86392458-86476071	81.614
Gpr158	0	0	0	179	2.983333	0.0341	0.725265	Unclassified	chr2:21287193-21752169	462.977
Exoc1	0	0	0	455	7.583333	6.71718	8.628235	Unclassified	chr5:76956347-76999310	40.964
Rnf113a1	0	0	0	110	1.833333	13.8447	10.25979	Unclassified	chrX:34729337-34732460	1.124
Areg	0	0	0	14	0.233333	0.171027	1.977116	Unclassified	chr5:91566640-91577458	8.819
Elf1	0	0	0	3040	50.66667	15.423	16.51782	Unclassified	chr14:79879000-79982283	101.284
Olf1675	0	0	0	0	0	0	0	Unclassified	chr7:112172538-112175480	0.943
Otud4	0	0	0	978	16.3	7.53783	16.28192	Unclassified	chr8:82161574-82201654	38.081
Gm9733	0	0	0	16	0.266667	0.082954	0	Unclassified	chr3:15296550-15334302	35.753
Lcn6	0	0	0	15	0.25	0	0.51582	Unclassified	chr2:25530305-25537127	4.823
Rax	0	0	0	14	0.233333	0.944309	0.554449	Unclassified	chr18:66094292-66100743	4.452
Nipa2	0	0	0	537	8.95	8.67399	30.19954	Unclassified	chr7:63186956-63219820	30.865
Camkk2	0	0	0	539	8.983333	7.68225	0.954426	Unclassified	chr5:123183206-123216303	31.098
Ddx50	0	0	0	832	13.86667	13.2495	36.78182	Unclassified	chr10:62078770-62115946	35.177
Hormad2	0	0	0	81	1.35	0.085888	1.085124	Unclassified	chr11:4246385-4343085	94.701
Spock2	0	0	0	144	2.4	1.33547	1.624849	Unclassified	chr10:59567004-59596661	27.658
Lrp1b	0	0	0	745	12.41667	0.03301	0.734794	Unclassified	chr2:40452292-42511118	2056.827
Col4a6	0	0	0	87	1.45	0.046268	0.781546	Unclassified	chrX:137599945-137910619	308.675
Opalin	0	0	0	29	0.483333	0	0.328079	Unclassified	chr19:41137909-41153603	13.695
Senp2	0	0	0	594	9.9	6.65603	13.67062	Unclassified	chr16:22007556-22049341	39.786
Hsd17b11	0	0	0	128	2.133333	6.08652	8.646202	Unclassified	chr5:104418783-104452815	32.033
Krtap5-5	0	0	0	6	0.1	0.008958	0.11202	Unclassified	chr7:149414699-149417876	1.178
Igsf1	0	0	0	3	0.05	0.073231	0	Unclassified	chrX:47135715-47152922	15.208
Prss28	0	0	0	4	0.066667	0.04308	0	Unclassified	chr17:25443590-25448821	3.232
Prss29	0	0	0	10	0.166667	0.108521	0	Unclassified	chr17:25453598-25459629	4.032
Impa2	0	0	0	591	9.85	17.8526	10.7995	Unclassified	chr18:67446876-67478495	29.62
Il1rapl2	0	0	0	247	4.116667	0.020323	0	Unclassified	chrX:134104087-135381494	1275.408
Donson	0	0	0	573	9.55	6.35943	10.07487	Unclassified	chr16:91679509-91699073	9.465
Cldn15	0	0	0	116	1.933333	0.062485	3.488124	Unclassified	chr5:137441738-137451710	7.973
Ms4a4b	0	0	0	16	0.266667	0.218785	0	Unclassified	chr19:11516047-11538038	19.992
Foxl1	0	0	0	8	0.133333	0.154595	0	Unclassified	chr8:123649584-123654544	2.961
Dmtf1	0	0	0	1344	22.4	4.88827	16.8543	Unclassified	chr5:9118867-9163776	42.91
Slc15a2	0	0	0	92	1.533333	0.735651	0	Unclassified	chr16:36750249-36787048	34.8
Rhox4b	0	0	0	0	0	0	0	Unclassified	chrX:34845000-34851785	4.786
Rars	0	0	0	706	11.76667	31.4944	9.159507	Unclassified	chr11:35621883-35650030	26.148
Dlg2	0	0	0	608	10.13333	0.049484	2.076125	Unclassified	chr7:98237295-99597599	1358.305
Lingo1	0	0	0	126	2.1	0.151696	0.350304	Unclassified	chr9:56466281-56535060	66.78
Slc35f2	0	0	0	373	6.216667	4.52595	17.30767	Unclassified	chr9:53617341-53665968	46.628
Armcx5	0	0	0	132	2.2	0	12.75962	Stalled	chrX:132275230-132281865	4.636

Plxnb3	0	0	0	55	0.916667	0.026601	0.21063	Unclassified	chrX:71000441-71017849	15.409
Glr2	0	0	0	160	2.666667	3.90749	16.27371	Stalled	chr1:145584697-145596808	10.112
Cypt3	0	0	0	0	0	0.038488	0	Unclassified	chrX:149991135-149993972	0.838
D19Erdt386e	0	0	0	562	9.366667	3.67453	25.90674	Unclassified	chr19:42591294-42666746	73.453
1700017D01Rik	0	0	0	48	0.8	0.107339	0.41297	Unclassified	chr19:11171305-11207368	34.064
Nus1	0	0	0	530	8.833333	14.3648	13.98484	Unclassified	chr10:521325352-52159996	22.645
Cnksr3	0	0	0	252	4.2	2.3377	9.615438	Unclassified	chr10:3132303-3227479	93.177
D11Wsu47e	0	0	0	501	8.35	10.66	22.80202	Unclassified	chr11:113543725-113555961	10.237
Eomes	0	0	0	11	0.183333	0.490449	0.464668	Unclassified	chr9:118385306-118395249	7.944
V1re9	0	0	0	0	0	0.022182	0	Unclassified	chr7:11165104-11168836	1.733
Sic6a8	0	0	0	110	1.833333	0.602955	0.714673	Unclassified	chrX:70916471-70927837	9.367
Dact2	0	0	0	11	0.183333	0.018257	0.97449	Unclassified	chr17:14332237-14342838	8.602
Nsun6	0	0	0	239	3.983333	6.75976	50.2449	Stalled	chr2:14916759-14972939	54.181
Errfi1	0	0	0	205	3.416667	0.844843	49.65564	Stalled	chr4:150227199-150242989	13.791
Sic35f5	0	0	0	238	3.966667	3.26179	14.97412	Stalled	chr1:127455592-127492261	34.67
Gga2	0	0	0	826	13.76667	21.8585	10.38558	Unclassified	chr7:129130235-129166712	34.478
Art3	0	0	0	414	6.9	1.38554	0	Unclassified	chr5:92758866-92843653	82.788
Bdp1	0	0	0	1013	16.88333	4.34747	14.11776	Unclassified	chr13:100787948-100876025	86.078
Nebi	0	0	0	285	4.75	0.146227	1.157527	Unclassified	chr2:17268360-17654695	384.336
Pank2	0	0	0	730	12.16667	6.71759	32.5554	Unclassified	chr2:131086235-131124923	36.689
Tmem30a	0	0	0	394	6.566667	10.6481	44.17764	Stalled	chr9:79616750-79643237	24.488
Ankrd10	0	0	0	1351	22.51667	19.01	14.74883	Unclassified	chr8:11611582-11637754	24.173
Zbtb39	0	0	0	169	2.816667	1.62185	5.525469	Unclassified	chr10:127174593-127184395	7.803
Fbxw16	0	0	0	8	0.133333	0.018709	0.693305	Unclassified	chr9:109334831-109353654	16.824
Fbxw21	0	0	0	10	0.166667	0.086247	0.705594	Unclassified	chr9:109041967-109066536	22.57
Cknk2	0	0	0	121	2.016667	0.041481	0.536196	Unclassified	chr1:191031810-191170071	136.262
Gm10375	0	0	0	1	0.016667	0	0	Unclassified	chr14:44180291-44187678	5.388
Gm1968	0	0	0	40	0.666667	0.052205	0.386961	Unclassified	chr16:29958012-29981210	21.199
Kdm1b	0	0	0	545	9.083333	3.73897	16.3242	Unclassified	chr13:47136907-47179982	41.076
Rnf144b	0	0	0	147	2.45	0.263663	1.405416	Unclassified	chr13:47216088-47343360	125.273
Nup153	0	0	0	1269	21.15	10.3519	16.48525	Unclassified	chr13:46775270-46825218	47.949
Agmat	0	0	0	47	0.783333	0.027385	0.208491	Unclassified	chr4:141300589-141315178	12.59
Serp1b7	0	0	0	39	0.65	0.122319	0.439402	Unclassified	chr1:109317265-109349265	30.001
Mcf2d	0	0	0	281	4.683333	9.02823	19.72444	Unclassified	chr17:87653782-87667220	11.439
Lgtn	0	0	0	360	6	16.2025	15.1711	Unclassified	chr1:133047783-133070048	20.266
Brc3	0	0	0	403	6.716667	11.1806	69.37767	Stalled	chrX:72659966-72699339	37.374
Lhcgr	0	0	0	47	0.783333	0.025101	3.316307	Unclassified	chr17:89140888-89193316	50.429
1700008F21Rik	0	0	0	45	0.75	0	0	Unclassified	chr8:131589033-131707631	116.599
E130311K13Rik	0	0	0	156	2.6	1.89579	30.14093	Stalled	chr3:63718617-63735307	14.691
Bmp4	0	0	0	12	0.2	0.154336	0.863636	Unclassified	chr14:47003195-47012274	7.08
Bmp10	0	0	0	10	0.166667	0.06812	0.333925	Unclassified	chr6:87376995-87384506	5.512
Bmp15	0	0	0	1	0.016667	0.012553	0	Unclassified	chrX:5891223-5899841	6.619
Bmp2	0	0	0	6	0.1	0.066247	2.438623	Unclassified	chr2:133376934-133388621	9.688
Dnajc5	0	0	0	962	16.03333	23.1523	23.51263	Unclassified	chr2:181253209-181286954	31.746
Yes1	0	0	0	187	3.116667	1.03939	57.25961	Stalled	chr5:32911605-32989430	75.826
Fkbp10	0	0	0	64	1.066667	0.128065	0.232284	Unclassified	chr11:100275007-100286153	9.147
Bmp1	0	0	0	127	2.116667	1.07827	6.914678	Unclassified	chr14:70874361-70922067	45.707
Cwc15	0	0	0	375	6.25	54.6714	14.01239	Unclassified	chr9:14303062-14315064	10.003
D830030K20Rik	0	0	0	0	0	0	0	Unclassified	chr14:3222445-3234345	9.901
Olfr867	0	0	0	1	0.016667	0.051471	1	Unclassified	chr9:19858909-19861905	0.997
Tarm1	0	0	0	12	0.2	0.280864	0.555121	Unclassified	chr7:3489956-3505433	13.478
Hat1	0	0	0	536	8.933333	19.4563	20.70109	Unclassified	chr2:71225316-71279679	52.364
Fbxo7	0	0	0	365	6.083333	5.89756	19.3214	Unclassified	chr10:85482673-85511073	26.401
Olfr308	0	0	0	0	0	0	0	Unclassified	chr7:93469533-93472460	0.928
Enpp6	0	0	0	183	3.05	1.65146	2.646212	Unclassified	chr8:48070278-48180249	107.972
Taf6	0	0	0	476	7.933333	19.6387	3.939474	Unclassified	chr5:138619844-138630414	8.571
Snord87	0	0	0	286	4.766667	3.98345	146	Unclassified	chr1:9932550-9934624	0.075
Pms2	0	0	0	754	12.56667	5.01209	27.43125	Unclassified	chr5:144668869-144692625	21.757
Arl4c	0	0	0	174	2.9	4.31872	6.644077	Unclassified	chr1:90594802-90600766	3.965
Prss39	0	0	0	17	0.283333	0.123407	0.436936	Unclassified	chr1:34553274-34559907	4.634
Prss40	0	0	0	14	0.233333	0.068988	0.975213	Unclassified	chr1:34609176-34619788	8.613
Asns	0	0	0	212	3.533333	11.8438	14.58098	Stalled	chr6:7625170-7645182	18.013
Tes	0	0	0	395	6.583333	14.2316	14.91168	Unclassified	chr6:17013148-17055825	40.678
Sifn1	0	0	0	72	1.2	0.021821	0.608166	Unclassified	chr4:120202835-120209266	4.432
Sh2d1b1	0	0	0	10	0.166667	0.31713	4.969052	Unclassified	chr1:172205454-172215793	8.34
Eif2s3x	0	0	0	489	8.15	16.1174	19.36907	Unclassified	chrX:91434047-91459990	23.944
Olfr12	0	0	0	2	0.033333	0.057513	1	Unclassified	chr1:94514484-94517486	1.003
Ddx3y	0	0	0	292	4.866667	5.96899	13.02539	Unclassified	chrY:597157-625056	25.9
Deb1	0	0	0	95	1.583333	12.1959	8.127013	Unclassified	chr9:121617506-121622039	2.534
Snx25	0	0	0	541	9.016667	9.80871	1.169466	Unclassified	chr8:47118615-47211500	90.886
Eif2s3y	0	0	0	174	2.9	20.5048	20.87593	Stalled	chrY:345054-365037	17.984
Exo1	0	0	0	654	10.9	4.19601	9.531965	Unclassified	chr1:177808908-177841527	30.62
Tmem188	0	0	0	285	4.75	5.66661	15.49864	Unclassified	chr8:90640657-90659096	16.44
Btbd6	0	0	0	293	4.883333	5.41904	2.965196	Elongating	chr12:114212692-114217146	2.455
4933408B17Rik	0	0	0	97	1.616667	0.244172	4.775365	Unclassified	chr18:34739499-34759122	17.624
Dtx3	0	0	0	154	2.566667	21.9054	5.691904	Unclassified	chr10:126627433-126634765	5.333
Kcnp2	0	0	0	66	1.1	0	1.406468	Unclassified	chr19:45868159-45892293	22.135
Lactb	0	0	0	168	2.8	10.2908	23.39174	Stalled	chr9:66803199-66825291	20.093
Cxcr6	0	0	0	45	0.75	0	0.310981	Unclassified	chr9:123713594-123720872	5.279
Zfp202	0	0	0	267	4.45	0.59494	19.81075	Stalled	chr9:39997900-40021189	21.29
Fgf16	0	0	0	20	0.333333	0.223325	4.200788	Unclassified	chrX:102957815-102971871	12.057
Wfdc6b	0	0	0	6	0.1	0.023833	0	Unclassified	chr2:164437199-164443712	4.514
Dysfip1	0	0	0	49	0.816667	2.16591	0.29512	Unclassified	chr11:120411288-120414446	1.159
Rabl2a	0	0	0	113	1.883333	2.1486	14.18645	Stalled	chr15:89412957-89424354	9.398
Cilp2	0	0	0	47	0.783333	0.28679	3.530247	Unclassified	chr8:72404264-72413291	7.028
BC100530	0	0	0	4	0.066667	0	0	Unclassified	chr16:36359467-36369656	8.19

38786	0	0	0	77	1.283333	0.082846	1.153638	Unclassified	chr15:26236826-26339328	100.503
Slc22a20	0	0	0	42	0.7	0	1.829159	Unclassified	chr19:5970233-5988143	15.911
Olfr419	0	0	0	1	0.016667	0.023603	1	Unclassified	chr1:176180021-176183107	1.087
Naalad1	0	0	0	173	2.883333	0.452408	0.46437	Unclassified	chr19:6103797-6115555	9.759
Hnf4a	0	0	0	33	0.55	0.091167	0.451764	Unclassified	chr2:163370923-163398643	25.721
Srfbp1	0	0	0	544	9.066667	10.7379	9.702033	Unclassified	chr18:52623346-52650392	25.047
Doxl2	0	0	0	7	0.116667	0.011203	0.394306	Unclassified	chr6:48923141-48928744	3.604
Tmem19	0	0	0	347	5.783333	6.14562	45.16164	Stalled	chr10:114777795-114801318	21.524
Zfp775	0	0	0	75	1.25	2.86499	0.664889	Unclassified	chr6:48561178-48573226	10.049
Gng4	0	0	0	128	2.133333	0.082045	13.68178	Stalled	chr13:13874805-13920162	43.358
Odf1	0	0	0	17	0.283333	0.023197	0.705083	Unclassified	chr15:38146957-38156490	7.534
Olfr307	0	0	0	2	0.033333	0	2	Unclassified	chr7:93483962-93486904	0.943
Fxyd4	0	0	0	67	1.116667	0.069403	0.482869	Unclassified	chr6:117883576-117889353	3.778
Ttll13	0	0	0	131	2.183333	0.944902	11.11222	Stalled	chr7:87389261-87405707	14.447
Api2	0	0	0	300	5	0.541171	130.1591	Stalled	chrX:160345091-160367478	20.388
Slc35b4	0	0	0	200	3.333333	4.66548	13.53977	Stalled	chr6:34105878-34129054	21.177
Dpm3	0	0	0	160	2.666667	83.5396	159	Unclassified	chr3:89068473-89070999	0.527
Caly	0	0	0	22	0.366667	0.131449	0.380361	Unclassified	chr7:147255785-147270447	12.663
Cgref1	0	0	0	20	0.333333	0.337018	0.931756	Unclassified	chr5:31235515-31249853	12.339
Stx6	0	0	0	616	10.26667	14.507	8.96359	Unclassified	chr1:157003832-157050647	44.816
Hmx1	0	0	0	5	0.083333	0.237969	1.738701	Unclassified	chr5:35729765-35735521	3.757
Cpb1	0	0	0	14	0.233333	0.068628	1.338296	Unclassified	chr3:20149382-20176651	25.27
Gjb2	0	0	0	11	0.183333	0.122619	1.838227	Unclassified	chr14:57717438-57725539	6.102
Ctrc	0	0	0	21	0.35	0	0.923965	Unclassified	chr4:141394154-141404274	8.121
Hmx3	0	0	0	14	0.233333	0.459378	0.974874	Unclassified	chr7:138684476-138688445	1.97
Sntg2	0	0	0	154	2.566667	0.098714	4.027514	Unclassified	chr12:30859421-31060240	198.82
Nap1i5	0	0	0	12	0.2	0.412775	2.782383	Unclassified	chr6:58855226-58859120	1.895
Olfr922	0	0	0	3	0.05	0.022644	2	Unclassified	chr9:38620992-38624124	1.133
Olfr715	0	0	0	1	0.016667	0.013487	1	Unclassified	chr7:114271957-114274905	0.949
Hmx2	0	0	0	17	0.283333	1.38946	2.023398	Unclassified	chr7:138695575-138700096	2.522
Olfr818	0	0	0	0	0	0.018901	0	Unclassified	chr10:129382159-129385116	0.958
Olfr821	0	0	0	1	0.016667	0	0	Unclassified	chr10:129468683-129471616	0.934
Olfr473	0	0	0	0	0	0.027441	0	Unclassified	chr7:115075035-115077968	0.934
Olfr472	0	0	0	1	0.016667	0	1	Unclassified	chr7:115044232-115047165	0.934
Kctd14	0	0	0	247	4.116667	6.51897	4.327281	Unclassified	chr7:104599713-104608066	6.354
Angptl3	0	0	0	10	0.166667	0.167795	1.413298	Unclassified	chr4:98695645-98704879	7.235
Foxs1	0	0	0	9	0.15	0.038832	1	Unclassified	chr2:152757633-152760944	1.312
Galnt1	0	0	0	112	1.866667	0.088276	0.888348	Unclassified	chr12:81617976-81704883	84.908
Olfr303	0	0	0	2	0.033333	0	0	Unclassified	chr7:93543046-93546006	0.961
Tbx5	0	0	0	68	1.133333	0.094219	0.432597	Unclassified	chr5:120282671-120335227	50.557
Olfr140	0	0	0	1	0.016667	0	0	Unclassified	chr2:89891570-89894479	0.91
Glrx3	0	0	0	520	8.666667	18.0355	9.778675	Unclassified	chr7:144627330-144660277	30.948
Nov	0	0	0	22	0.366667	0.146317	2.756743	Unclassified	chr15:54575482-54585316	7.835
Zfp521	0	0	0	311	5.183333	0.156362	6.357776	Unclassified	chr18:13846723-14133046	284.324
Sh2d4a	0	0	0	68	1.133333	0.101901	1.053898	Unclassified	chr8:70798426-70871603	71.178
Oraov1	0	0	0	212	3.533333	8.62642	7.1921	Unclassified	chr7:152099098-152107042	5.945
Hspb11	0	0	0	275	4.583333	3.30152	30.54175	Stalled	chr4:106924538-106952493	25.956
Zdhhc9	0	0	0	172	2.866667	3.35457	22.4181	Stalled	chrX:45525147-45563879	36.733
Iah1	0	0	0	364	6.066667	15.6257	11.74499	Unclassified	chr12:21320252-21329468	7.217
Pncr1	0	0	0	715	11.91667	17.0881	4.082461	Unclassified	chr4:33332397-33337762	3.366
Mustn1	0	0	0	95	1.583333	0.847899	2.485126	Unclassified	chr14:31690442-31694796	2.355
Nudt14	0	0	0	129	2.15	13.8498	16.05847	Stalled	chr12:114172943-114182329	7.387
Olfr866	0	0	0	2	0.033333	0	0.072356	Unclassified	chr9:19831402-19834479	1.078
Olfr836	0	0	0	1	0.016667	0.026841	1	Unclassified	chr9:18923400-18926355	0.956
Olfr136	0	0	0	1	0.016667	0	1	Unclassified	chr17:38470103-38473042	0.94
Olfr830	0	0	0	0	0	0	0	Unclassified	chr9:18677772-18680720	0.949
Olfr837	0	0	0	1	0.016667	0	1	Unclassified	chr9:18939371-18942411	1.041
Olfr620	0	0	0	0	0	0	0	Unclassified	chr7:110759925-110762865	0.941
Tmem182	0	0	0	38	0.633333	0.046775	0.57481	Unclassified	chr1:40860445-40912112	49.668
S100a13	0	0	0	200	3.333333	34.4989	24.03496	Stalled	chr3:90316681-90328503	9.823
Tfb2m	0	0	0	366	6.1	8.96282	15.63038	Unclassified	chr1:181458186-181478398	18.213
Ccdc160	0	0	0	4	0.066667	0.091784	0	Unclassified	chrX:50142376-50152645	8.27
Snx26	0	0	0	252	4.2	6.04001	5.723446	Unclassified	chr7:31307244-31322028	12.785
Lsm2	0	108.77	0	535	8.916667	62.7265	15.31826	Unclassified	chr17:35116804-35122838	4.035
H3f3a	0	0	0	1015	16.91667	30.6403	8.106984	Unclassified	chr1:182732698-182745734	11.037
Aldh1l1	0	0	0	98	1.633333	0.162074	1.710645	Unclassified	chr6:90498841-90549165	48.325
Cog1	0	0	0	614	10.23333	10.5567	6.105993	Unclassified	chr11:113508842-113523715	12.874
Fbxl3	0	0	0	620	10.33333	6.51995	15.31147	Unclassified	chr14:103479455-103500726	19.272
Fcf1	0	0	0	370	6.166667	17.2473	16.01364	Unclassified	chr12:86309879-86324246	12.368
Haus7	0	0	0	156	2.6	14.1718	17.8748	Stalled	chrX:70682653-70706368	21.716
Angptl1	0	0	0	370	6.166667	0	1.55069	Elongating	chr1:158767153-158791209	22.057
Ldhb	0	0	0	21	0.35	0.198608	2.553218	Unclassified	chr6:142438768-142458463	17.696
Dazap2	0	0	0	566	9.433333	42.865	7.614843	Unclassified	chr15:100444092-100451192	5.101
Asz1	0	0	0	35	0.583333	0	1.944369	Unclassified	chr6:18000963-18061061	58.099
Psmc4	0	0	0	343	5.716667	58.0672	3.290416	Unclassified	chr7:28826720-28837111	8.392
Prkra	0	0	0	59	0.983333	3.61965	14.84948	Stalled	chr2:76467993-76488051	18.059
Gphb5	0	0	0	12	0.2	0.11117	0.269734	Unclassified	chr12:76512706-76519768	5.063
4930521A18Rik	0	0	0	1	0.016667	0.01769	0	Unclassified	chr1:31277683-31281132	1.45
S100a4	0	0	0	18	0.3	3.55151	1.387627	Unclassified	chr3:90405691-90409966	2.276
Slitrk1	0	0	0	3	0.05	0.039194	0.619193	Unclassified	chr14:109309205-109315456	4.252
2610028H24Rik	0	0	0	31	0.516667	0	0.92468	Unclassified	chr10:75909825-75923963	12.139
Phlda3	0	0	0	69	1.15	10.4457	6.128114	Unclassified	chr1:137660661-137665710	3.05
Hrasls	0	0	0	8	0.133333	0.008793	0	Unclassified	chr16:29207780-29230616	20.837
Ttc30b	0	0	0	25	0.416667	1.66665	5.749911	Unclassified	chr2:75773906-75778519	2.614
4632433K11Rik	0	0	0	175	2.916667	0.456255	0.597983	Unclassified	chr7:4983679-4988370	2.692
Scgb3a2	0	0	0	2	0.033333	0	1	Unclassified	chr18:43921980-43927053	3.074

Chst1	0	0	0	32	0.533333	1.0513	1.471363	Unclassified	chr2:92437863-92455409	15.547
F830116E18Rik	0	0	0	2	0.033333	1.19788	2	Unclassified	chr11:32184963-32187912	0.95
Oat	0	0	0	801	13.35	24.7928	23.16067	Unclassified	chr7:139749157-139770081	18.925
Sox21	0	0	0	14	0.233333	0.216044	0.474059	Unclassified	chr14:118632457-118638252	3.796
Slc24a2	0	0	0	206	3.433333	0.03025	0.545873	Unclassified	chr4:86629029-86878444	247.416
Krt75	0	0	0	11	0.183333	0.041099	0.544497	Unclassified	chr15:101393773-101406335	10.563
Gpr143	0	0	0	10	0.166667	0.023288	1.572219	Unclassified	chrX:149214463-149243189	26.727
Ano3	0	0	0	115	1.916667	0.026103	0	Unclassified	chr2:110498296-110792401	292.106
Phactr4	0	0	0	520	8.666667	1.89552	24.34718	Unclassified	chr4:131911838-131980361	66.524
Rps6ka5	0	0	0	732	12.2	1.48633	49.36593	Stalled	chr12:101787987-101965238	175.252
Rasal2	0	0	0	274	4.566667	0.34475	15.52239	Stalled	chr1:159065315-159344726	277.412
Shroom3	0	0	0	379	6.316667	0.156457	1.71455	Unclassified	chr5:93110460-93394785	282.326
Ftsj1	0	0	0	127	2.116667	4.43046	10.59535	Stalled	chrX:7815793-7831532	13.74
Olfr492	0	0	0	0	0	0.067811	0	Unclassified	chr7:115466243-115469188	0.946
Rag2	0	0	0	7	0.116667	0.049105	0.53059	Unclassified	chr2:101462904-101472685	7.782
Rab34	0	0	0	18	0.3	1.11535	5.805369	Unclassified	chr11:7799928-78005695	3.768
Krt27	0	0	0	6	0.1	0.028389	1.203187	Unclassified	chr11:99206879-99214408	5.53
Nphs1	0	0	0	42	0.7	0.043851	0.840633	Unclassified	chr7:31243076-31273628	28.553
Rag1	0	0	0	8	0.133333	0.06536	0.672775	Unclassified	chr2:101478410-101491689	11.28
Krt86	0	0	0	12	0.2	0.129619	0.37961	Unclassified	chr15:101301908-101310414	6.507
Krt1	0	0	0	6	0.1	0.267116	1.185004	Unclassified	chr15:101675856-101683217	5.362
Ube2dn1	0	0	0	0	0	0	0	Unclassified	chrX:112016620-112019550	0.931
Pfdn4	0	0	0	267	4.45	8.34829	0.075499	Unclassified	chr2:170319927-170344567	22.641
Thns12	0	0	0	54	0.9	0.460295	16.86304	Stalled	chr6:71078391-71096370	15.98
Cited1	0	0	0	13	0.216667	0.486862	3.750281	Unclassified	chrX:99442775-99449108	4.334
Ckb	0	0	0	64	1.066667	16.1733	2.280341	Unclassified	chr12:112907565-112912549	2.985
Fermt2	0	0	0	59	0.983333	0.090896	2.243864	Unclassified	chr14:46078466-46151740	71.275
N4bp2	0	0	0	595	9.916667	4.21937	10.33162	Unclassified	chr5:66152759-66218023	63.265
E130309F12Rik	0	0	0	210	3.5	0.047655	0	Unclassified	chr4:49070333-49353133	280.801
Usp19	0	0	0	640	10.66667	23.1836	6.456139	Unclassified	chr9:108391019-108404028	11.01
Gtf3c3	0	0	0	342	5.7	2.96454	28.46152	Stalled	chr1:54454424-54497815	41.392
Zfp784	0	0	0	385	6.416667	1.31014	4.639975	Unclassified	chr7:4986047-4992036	3.99
Olfr1010	0	0	0	2	0.033333	0.027153	0	Unclassified	chr2:85591519-85594463	0.945
Zfp747	0	0	0	177	2.95	7.35618	15.72209	Stalled	chr7:134516050-134521564	3.515
Gtdc1	0	0	0	553	9.216667	1.1741	1.055098	Unclassified	chr2:44419941-44719142	297.202
9930021J03Rik	0	0	0	20	0.333333	0.830047	3.1875	Unclassified	chr19:29789804-29794027	2.224
Olfr1170	0	0	0	0	0	0.016249	0	Unclassified	chr2:88064236-88067187	0.952
Cyp2c66	0	0	0	19	0.316667	0.015726	0.799688	Unclassified	chr19:39186387-39261246	72.86
Ranbp6	0	0	0	206	3.433333	5.14417	17.68574	Stalled	chr19:29882597-29889464	4.868
Kctd10	0	0	0	565	9.416667	15.876	10.1076	Unclassified	chr5:114813581-114832514	16.934
Bod1	0	0	0	201	3.35	8.19622	11.47627	Unclassified	chr11:31565149-31573862	6.714
2610002D18Rik	0	0	0	517	8.616667	8.38499	13.9924	Unclassified	chr4:134064913-134079837	12.925
Dpys	0	0	0	83	1.383333	0.033033	1.053819	Unclassified	chr15:39600030-39691016	88.987
Acacb	0	0	0	202	3.366667	0.078544	0.296374	Unclassified	chr5:114613526-114700767	85.242
Slc46a3	0	0	0	295	4.916667	4.46242	3.068145	Unclassified	chr5:148690016-148708378	16.363
Kcnab3	0	0	0	232	3.866667	2.86856	3.074088	Unclassified	chr11:69137759-69146543	6.785
Ifnz	0	0	0	2	0.033333	0	0.316473	Unclassified	chr4:88426034-88429496	1.463
Kcna7	0	0	0	25	0.416667	0.341031	0.240122	Unclassified	chr7:52659329-52666752	5.424
Kcna6	0	0	0	42	0.7	0.08102	0	Unclassified	chr6:126658347-126692692	32.346
Kcnab1	0	0	0	722	12.03333	0.085843	0.816137	Unclassified	chr3:64911564-65182141	268.578
Tsr1	0	0	0	824	13.73333	24.2966	4.983598	Unclassified	chr11:74709581-74722842	11.262
Rhbd12	0	0	0	61	1.016667	0.036846	0.820366	Unclassified	chr4:123463117-123507147	42.031
Kcna5	0	0	0	6	0.1	0.023452	0.667332	Unclassified	chr6:126482568-126487573	3.006
Kcna4	0	0	0	5	0.083333	0.066999	0.695431	Unclassified	chr2:107128810-107138659	7.85
Zfp57	0	0	0	14	0.233333	0.797799	0.837615	Unclassified	chr17:37137469-37147674	8.206
Gm4787	0	0	0	0	0	0.116072	0	Unclassified	chr12:82477977-82482473	2.497
Zfp59	0	0	0	153	2.55	1.03198	21.43285	Stalled	chr7:28621602-28641793	18.192
4931417G12Rik	0	0	0	53	0.883333	0.330056	2.041098	Unclassified	chr6:113546755-113552709	3.955
Zfp52	0	0	0	200	3.333333	4.99296	25.30389	Stalled	chr17:21670502-21699565	27.064
Zfp54	0	0	0	155	2.583333	3.31077	36.9374	Stalled	chr17:21558190-21572348	12.159
Lrrc55	0	0	0	8	0.133333	0.035355	0.521531	Unclassified	chr2:85028227-85038856	8.63
Cdc5l	0	0	0	871	14.51667	8.78293	30.97171	Unclassified	chr17:45528838-45572656	41.819
Zfp61	0	0	0	148	2.466667	8.37524	8.782979	Unclassified	chr7:25076064-25086568	8.505
Zfp60	0	0	0	336	5.6	2.83114	42.99725	Stalled	chr7:28514427-28536708	20.282
Olfr120	0	0	0	2	0.033333	0.115336	0	Unclassified	chr17:37860943-37863936	0.994
Gmppa	0	0	0	278	4.633333	21.3438	8.548878	Unclassified	chr1:75430517-75439751	7.235
Prss36	0	0	0	159	2.65	1.07187	0.077409	Unclassified	chr7:135076151-135092239	14.089
Sult1c2	0	0	0	15	0.25	0.017497	1.082018	Unclassified	chr17:53968961-53987283	16.323
Olfr1308	0	0	0	0	0	0	0	Unclassified	chr2:111800265-111803228	0.964
Olfr367	0	0	0	6	0.1	0.069717	1.896653	Unclassified	chr2:37120470-37126907	4.438
Olfr204	0	0	0	0	0	0.019692	0	Unclassified	chr16:59314314-59317231	0.918
Gpsm2	0	0	0	216	3.6	2.59015	12.93064	Stalled	chr3:108481555-108527217	43.663
Prkg2	0	0	0	86	1.433333	0.040938	2.258173	Unclassified	chr5:99358791-99468098	107.308
1600002K03Rik	0	0	0	502	8.366667	21.9282	14.88762	Unclassified	chr10:79633688-79637864	2.177
Pgap3	0	0	0	167	2.783333	2.84381	16.19384	Stalled	chr11:98249985-98263804	11.82
Msa46b	0	0	0	40	0.666667	1.94273	1.555131	Unclassified	chr19:11591048-11604893	11.846
Ak3i1	0	0	0	66	1.1	1.4189	3.618068	Unclassified	chr4:101090363-101139600	47.238
Sprr4	0	0	0	1	0.016667	0	1	Unclassified	chr3:92304184-92306415	0.232
Ppargc1a	0	0	0	98	1.633333	0.229976	2.080908	Unclassified	chr5:51845488-51947160	99.673
Fastkd2	0	0	0	231	3.85	2.75465	6.758313	Unclassified	chr1:63775198-63799959	22.762
Olfr533	0	0	0	2	0.033333	0.033193	0	Unclassified	chr7:147650101-147653064	0.964
2810008M24Rik	0	0	0	401	6.683333	5.80978	18.46405	Unclassified	chr13:108832667-108839340	4.674
4833427G06Rik	0	0	0	20	0.333333	0.446504	4.977996	Unclassified	chr9:50889417-50912183	20.767
Dspp	0	0	0	11	0.183333	0.026032	0.966527	Unclassified	chr5:104597730-104609146	9.417
Spata3	0	0	0	12	0.2	0.164481	0.467306	Unclassified	chr1:87916516-87926533	8.018
Sdr9c7	0	0	0	21	0.35	0.049484	0.808972	Unclassified	chr10:127333590-127348815	13.226

Gm648	0	0	0	2	0.033333	0.030794	0	Unclassified	chrX:53797050-53804783	5.734
Plxnb1	0	0	0	73	1.216667	0.096868	4.487902	Unclassified	chr9:108995949-109022429	24.481
Hsd3b6	0	0	0	6	0.1	0.010021	1.330039	Unclassified	chr3:98609426-98620366	8.941
H1fmt	0	0	0	7	0.116667	0.028996	0.739261	Unclassified	chr15:98086412-98089738	1.327
Xylb	0	0	0	220	3.666667	0.980998	12.46941	Stalled	chr9:119264498-119302438	35.941
Olfr25	0	0	0	1	0.016667	0	1	Unclassified	chr9:38135076-38138143	1.068
Nr0b1	0	0	0	1	0.016667	0.014288	0	Unclassified	chrX:83435113-83441283	4.171
Agtrap	0	0	0	164	2.733333	3.78497	3.918462	Unclassified	chr4:147451169-147464173	11.005
Agxt	0	0	0	17	0.283333	0	1.652052	Unclassified	chr1:95029852-95041998	10.147
Acsbg2	0	0	0	85	1.416667	0.024571	1.69612	Unclassified	chr17:56982526-57015870	31.345
Gfral	0	0	0	20	0.333333	0.030809	0.729555	Unclassified	chr9:76011908-76063464	49.557
Cyp2c54	0	0	0	11	0.183333	0.013816	0	Unclassified	chr19:40112429-40150303	35.875
Pabpc2	0	0	0	4	0.066667	0.524376	3	Unclassified	chr18:39931150-39935736	2.587
Pabpc1	0	0	0	1377	22.95	273.71	9.195754	Unclassified	chr15:36525413-36540728	13.316
Fam83b	0	0	0	27	0.45	0.016347	0.683948	Unclassified	chr9:76338511-76395611	55.101
P4ha1	0	0	0	480	8	5.79197	64.68043	Stalled	chr10:58784043-58836051	50.009
Fcna	0	0	0	2	0.033333	0.184898	1	Unclassified	chr2:25480186-25485494	3.309
Fcnb	0	0	0	15	0.25	0.048272	0.76295	Unclassified	chr2:27931998-27942398	8.401
Ooep	0	0	0	4	0.066667	0.095565	0.255675	Unclassified	chr9:78224709-78228395	1.687
Fam107a	0	0	0	26	0.433333	0.077339	0.342466	Unclassified	chr14:9128791-9144290	13.5
Neto1	0	0	0	62	1.033333	0.058075	1.938681	Unclassified	chr18:86562343-86671289	106.947
Heyl	0	0	0	27	0.45	0.178162	1.734738	Unclassified	chr4:122908798-122927113	16.316
Prokr2	0	0	0	31	0.516667	0.151326	0.804032	Unclassified	chr2:132196066-132213183	15.118
Asb12	0	0	0	4	0.066667	0	0	Unclassified	chrX:92665537-92675468	7.932
Asnsd1	0	0	0	251	4.183333	18.6305	41.51513	Stalled	chr1:53401487-53411543	8.057
Fam160b1	0	0	0	601	10.01667	3.73506	20.86424	Unclassified	chr19:57433498-57464084	28.587
Olfr1281	0	0	0	0	0	0.026668	0	Unclassified	chr2:111166577-111169495	0.919
Npc111	0	0	0	27	0.45	0.033646	0.843556	Unclassified	chr11:6111013-6132248	19.236
Cntnap5b	0	0	0	292	4.866667	0.045057	0.710631	Unclassified	chr1:101667341-102382519	713.179
Olfr524	0	0	0	2	0.033333	0	1	Unclassified	chr7:147387710-147390667	0.958
4933402J07Rik	0	0	0	22	0.366667	0.037585	0.536342	Unclassified	chr8:90085805-90113096	25.292
Wac	0	0	0	1123	18.71667	6.75859	25.18625	Unclassified	chr18:7867194-7929025	59.832
Nol6	0	0	0	425	7.083333	16.1194	4.395986	Unclassified	chr4:41061459-41073372	9.914
AI597468	0	0	0	292	4.866667	3.25271	38.2396	Stalled	chr10:84563371-84580492	15.122
2610305D13Rik	0	0	0	2	0.033333	0	0	Unclassified	chr4:146986044-147018617	30.574
Shc3	0	0	0	164	2.733333	0.016688	1.837058	Unclassified	chr13:51526410-51664453	136.044
Shcbp1	0	0	0	308	5.133333	8.7456	10.19922	Unclassified	chr8:4735979-4781534	43.556
Shbg	0	0	0	5	0.083333	0.17307	0	Unclassified	chr11:69428317-69433407	3.091
2010109I03Rik	0	0	0	13	0.216667	0.237717	1.01174	Unclassified	chr15:74708765-74714134	3.37
Mrpl45	0	0	0	289	4.816667	17.5998	13.63902	Unclassified	chr11:97175029-97191234	14.206
Hsd17b13	0	0	0	33	0.55	0.416151	0.411141	Unclassified	chr5:104384462-104408407	21.946
Mt1	0	0	0	161	2.683333	18.8408	1.410334	Elongating	chr8:96700988-96704225	1.238
Fanc1	0	0	0	491	8.183333	5.72274	60.18464	Stalled	chr11:26285083-26371876	84.794
Apol7c	0	0	0	16	0.266667	0.120396	1.358663	Unclassified	chr15:77355296-77365745	8.45
Krtap5-2	0	0	0	4	0.066667	0.027623	0.191919	Unclassified	chr7:149360436-149363910	1.475
Mtap7d2	0	0	0	31	0.516667	0.143679	1.510741	Unclassified	chrX:155850509-155936879	84.371
Creb314	0	0	0	111	1.85	0.181558	0.234268	Unclassified	chr3:90041421-90049434	6.014
1700049L16Rik	0	0	0	1	0.016667	0.07334	1	Unclassified	chr10:71442632-71445438	0.807
Csn1s2b	0	0	0	8	0.133333	0	0.686113	Unclassified	chr5:88235146-88253446	16.301
Wdr65	0	0	0	262	4.366667	0.136744	37.98941	Stalled	chr4:118227301-118295010	65.71
Zfp735	0	0	0	7	0.116667	0.003405	0	Unclassified	chr11:73500279-73527309	25.031
1190005I06Rik	0	0	0	118	1.966667	1.32606	8.606398	Unclassified	chr8:123132501-123160282	25.782
Pygo2	0	0	0	432	7.2	12.0567	7.85998	Unclassified	chr3:89232758-89239050	4.293
Zfp467	0	0	0	203	3.383333	2.86856	1.851082	Elongating	chr6:48377690-48397824	18.135
Hint2	0	0	0	28	2.733333	9.802	6.800165	Unclassified	chr4:43667098-43671317	2.22
Cdkal1	0	0	0	2544	42.4	1.71145	23.95778	Unclassified	chr13:29417174-29949457	530.284
Casd1	0	0	0	451	7.156667	3.13884	40.70054	Stalled	chr6:4549065-4593381	42.317
Speer4f	0	0	0	2	0.033333	0	0	Unclassified	chr5:16979939-16986754	4.816
Sod3	0	0	0	7	0.116667	0.081473	0	Unclassified	chr5:52753042-52760977	5.936
Ttc29	0	0	0	139	2.316667	0	0.566017	Unclassified	chr8:80735240-80918224	180.985
Dmbt1	0	0	0	87	1.45	0.011531	1.576124	Unclassified	chr7:138173589-138265142	89.554
Crp	0	0	0	2	0.033333	0	0.476987	Unclassified	chr1:174626186-174630097	1.912
4930549C01Rik	0	0	0	5	0.083333	0.038258	0	Unclassified	chr4:136164351-136169128	2.778
Olfr1335	0	0	0	3	0.05	0.01533	2	Unclassified	chr4:118481459-118484467	1.009
Ube2e2	0	0	0	190	3.166667	0.074622	0	Unclassified	chr14:19406090-19728141	320.052
Gabra1	0	0	0	23	0.383333	0.037086	2.312473	Unclassified	chr11:41944981-41998432	51.452
Cfp	0	0	0	189	3.15	107.071	2.938873	Elongating	chrX:20502660-20510650	5.991
Gabra3	0	0	0	38	0.633333	0.010316	0.857458	Unclassified	chrX:69678014-69903585	223.572
Pex7	0	0	0	414	6.9	5.76362	22.94229	Unclassified	chr10:19579895-19629480	47.586
Pex11b	0	0	0	365	6.083333	11.1261	18.7205	Unclassified	chr3:96437352-96449304	9.953
Pex11a	0	0	0	28	0.466667	1.28309	7.965623	Unclassified	chr7:86882149-86889911	5.763
Pet2	0	0	0	2	0.033333	0.019909	0	Unclassified	chrX:86649186-86657028	5.843
Podn	0	0	0	30	0.5	0.115294	0.367932	Unclassified	chr4:107687397-107706695	17.299
Galnt14	0	0	0	307	5.116667	0.114476	0.501893	Unclassified	chr7:118615174-118925491	308.318
Gabra6	0	0	0	9	0.15	0	0	Unclassified	chr11:42119938-42136553	14.616
Pfkfb1	0	0	0	87	1.45	0.841307	1.194688	Unclassified	chrX:147022463-147078403	53.941
Alkbh8	0	0	0	279	4.65	2.5975	13.37133	Stalled	chr9:3333230-3385846	50.617
Cd36	0	0	0	129	2.15	4.04104	0	Unclassified	chr5:17287507-17396777	107.271
V1rd12	0	0	0	0	0	0.008503	0	Unclassified	chr7:24650538-24653468	0.931
Ptpro	0	0	0	231	3.85	0.040091	1.44639	Unclassified	chr6:137198819-137413152	212.334
Cnot6l	0	0	0	1262	21.03333	6.70907	23.54221	Unclassified	chr5:96504756-96593009	86.254
Entpd2	0	0	0	19	0.316667	0.284513	0.510114	Unclassified	chr2:25249393-25256843	5.451
Entpd5	0	0	0	290	4.833333	2.49078	12.65845	Unclassified	chr12:85714806-85751979	35.174
Lama3	0	0	0	249	4.15	0.040869	1.509091	Unclassified	chr18:12490532-12741519	248.988
Acrv1	0	0	0	23	0.383333	0.046818	0.640964	Unclassified	chr9:36498804-36506422	5.619
Faf2	0	0	0	965	16.08333	10.6266	12.06311	Unclassified	chr13:54721144-54765424	42.281

9330176C04Rik	0	0	0	39	0.65	0.196419	2.5144	Unclassified	chr9:119129610-119142693	11.084
1700027D21Rik	0	0	0	7	0.116667	0.125178	0	Unclassified	chr10:76023016-76032945	7.93
Ccdc55	0	0	0	719	11.98333	8.92961	37.56135	Unclassified	chr11:76857793-76893937	34.145
Tusc5	0	0	0	32	0.533333	0.106792	1.588909	Unclassified	chr11:76491374-76512166	18.793
Arcn1	0	0	0	704	11.73333	26.9918	14.21026	Unclassified	chr9:44550227-44577891	25.665
Prl2c1	0	0	0	1	0.016667	0.036307	0	Unclassified	chr13:27939270-27949577	8.308
Zfp498	0	0	0	260	4.333333	6.57867	1.036785	Elongating	chr5:146042211-146052338	8.128
Gsdmc2	0	0	0	4	0.066667	0.02068	0	Unclassified	chr15:63655900-63678731	20.832
Ift74	0	0	0	174	2.9	2.70981	30.78431	Stalled	chr4:94279210-94359924	78.715
Parvb	0	0	0	279	4.65	0.49111	0.939426	Unclassified	chr15:84060472-84146039	83.568
Fam40b	0	0	0	99	1.65	1.25697	15.57429	Stalled	chr6:29865012-29909680	42.669
Tmem198	0	0	0	100	1.666667	0.757008	14.8796	Stalled	chr1:75474106-75482267	6.162
Chrna5	0	0	0	26	0.433333	0.05149	0	Unclassified	chr9:54826686-54855586	26.901
Postn	0	0	0	15	0.25	0.036193	1.379608	Unclassified	chr3:54163046-54194954	29.909
Psg25	0	0	0	19	0.316667	0.020894	1.303615	Unclassified	chr7:19105050-19119576	12.527
Cfhr1	0	0	0	3	0.05	0.029599	0.858757	Unclassified	chr1:141443640-141458799	13.116
Elane	0	0	0	6	0.1	0	0.695853	Unclassified	chr10:79347056-79350961	1.906
Cyp2c68	0	0	0	7	0.116667	0.00298	0	Unclassified	chr19:39763325-39817591	52.267
Prlhr	0	0	0	14	0.233333	0.660383	0.801847	Unclassified	chr19:60542635-60546207	1.573
Ribc1	0	0	0	363	6.05	2.28876	42.69914	Stalled	chrX:148439126-148452838	11.713
Ormdl3	0	0	0	177	2.95	13.7771	11.37325	Stalled	chr11:98442607-98450559	5.953
C630004H02Rik	0	0	0	134	2.233333	8.911	4.874372	Unclassified	chr11:115209022-115231033	20.012
Gm11487	0	0	0	2	0.033333	0	0	Unclassified	chr4:73062065-73068106	4.042
Tnfrsf4	0	0	0	185	3.083333	1.04306	1.081845	Elongating	chr4:155385803-155390698	2.896
L3mbtl2	0	0	0	887	14.78333	18.7588	5.872683	Unclassified	chr15:81492365-81518735	24.371
Dclk3	0	0	0	81	1.35	0.08427	1.174375	Unclassified	chr9:111339584-111392115	50.532
Ldlrad2	0	0	0	11	0.183333	0.094642	2.492273	Unclassified	chr4:137126790-137133095	4.306
Sval1	0	0	0	3	0.05	0	0	Unclassified	chr6:41899626-41906097	4.472
Slc25a29	0	0	0	282	4.7	1.57231	10.93388	Unclassified	chr12:110064087-110076086	10
Tmem54	0	0	0	13	0.216667	0.107138	0.711617	Unclassified	chr4:128780859-128788829	5.971
Sec24a	0	0	0	992	16.53333	3.65418	31.66193	Unclassified	chr11:51505764-51572336	64.573
Zcchc10	0	0	0	240	4	6.84741	10.14083	Unclassified	chr11:53136190-53146803	8.614
Gm5148	0	0	0	19	0.316667	0	0.758895	Unclassified	chr3:37613111-37625282	10.172
Klhl31	0	0	0	43	0.716667	1.36367	1.150432	Unclassified	chr9:77482538-77507929	23.392
9430031J16Rik	0	0	0	102	1.7	0.052248	0	Unclassified	chr1:81071891-81268226	194.336
Tmem229a	0	0	0	5	0.083333	0.064275	0.57057	Unclassified	chr6:24901140-24908125	4.986
4732456N10Rik	0	0	0	19	0.316667	0.050577	0.749805	Unclassified	chr15:101382786-101395381	10.596
9330182L06Rik	0	0	0	146	2.433333	0.240981	6.161904	Unclassified	chr5:9264192-9480717	214.526
Rnf186	0	0	0	4	0.066667	0.020441	4	Unclassified	chr4:138521026-138524280	1.255
Cdh7	0	0	0	48	0.8	0	0.766478	Unclassified	chr1:111878313-112035578	155.266
EG214403	0	0	0	22	0.366667	0.012924	0	Unclassified	chr1:141594495-141679816	83.322
Hspb2	0	0	0	5	0.083333	0.396696	0	Unclassified	chr9:50559176-50562459	1.284
Olfir309	0	0	0	0	0	0	0	Unclassified	chr7:93454694-93457621	0.928
Ceacam9	0	0	0	12	0.2	0	0.853885	Unclassified	chr7:17305277-17311459	4.183
Cetn1	0	0	0	4	0.066667	0.60358	2	Unclassified	chr18:9618416-9621467	1.052
Mtr	0	0	0	471	7.85	5.31447	19.82556	Stalled	chr13:12279085-12352267	71.183
Hapln2	0	0	0	24	0.4	0.797599	0.627729	Unclassified	chr3:87825671-87833433	5.763
Emd	0	0	0	239	3.983333	35.3952	13.71131	Stalled	chrX:71498177-71503086	2.91
Axl	0	0	0	93	1.55	0.715475	2.426561	Unclassified	chr7:26542291-26575560	31.27
Ceacam1	0	0	0	70	1.166667	3.83719	12.67447	Stalled	chr7:26246720-26264644	15.925
Ceacam10	0	0	0	6	0.1	1.00351	0.563357	Unclassified	chr7:25560222-25569672	7.451
Cyp2j11	0	0	0	20	0.333333	0	0.736733	Unclassified	chr4:95961202-96017371	54.17
Nom1	0	0	0	491	8.183333	15.6483	8.13457	Unclassified	chr5:29759206-29778709	17.504
Olfir1474	0	0	0	1	0.016667	0	1	Unclassified	chr19:13543461-13546406	0.946
Olfir1463	0	0	0	3	0.05	0.027473	2	Unclassified	chr19:13306741-13309674	0.934
Olfir1465	0	0	0	1	0.016667	0	1	Unclassified	chr19:13387849-13390773	0.925
Fam82a2	0	0	0	562	9.366667	12.849	9.707837	Unclassified	chr2:118962736-118984691	19.956
Oas1g	0	0	0	13	0.216667	4.99039	1.133167	Unclassified	chr5:121326150-121339607	11.458
Prss7	0	0	0	45	0.75	0.027854	0.756415	Unclassified	chr16:78953708-79093342	137.635
Klk6	0	0	0	11	0.183333	0.07206	0.443428	Unclassified	chr7:51078819-51087395	6.577
Gm6614	0	0	0	20	0.333333	0.039374	1.353009	Unclassified	chr6:141920716-141959266	36.551
Prss12	0	0	0	499	8.316667	1.35696	0.319726	Unclassified	chr3:123147830-123209519	59.69
Lgmn	0	0	0	859	14.31667	54.3594	8.900679	Unclassified	chr12:103632307-103679907	45.601
Fign	0	0	0	69	1.15	0.059534	0.641036	Unclassified	chr2:63815417-63938064	120.648
Nrip2	0	0	0	150	2.5	0.540773	0.270257	Unclassified	chr6:128347783-128358953	9.171
Gpbbp1	0	0	0	1038	17.3	15.1489	18.37162	Unclassified	chr13:112215887-112282249	64.363
Ube2j1	0	0	0	609	10.15	16.3178	24.91278	Unclassified	chr4:33116399-33139339	20.941
Pnp1a3	0	0	0	61	1.016667	0.225904	8.03347	Unclassified	chr15:83996245-84019951	21.707
Tspan5	0	0	0	1185	19.75	4.20466	14.04648	Unclassified	chr3:138403158-138567388	162.231
Reep1	0	0	0	214	3.566667	0.19833	0.982911	Unclassified	chr6:71655853-71760696	102.844
Fscn3	0	0	0	67	1.116667	0.0358	6.05471	Unclassified	chr6:28375900-28388622	10.723
Zfp386	0	0	0	233	3.883333	4.30382	13.84577	Unclassified	chr12:117283934-117299062	13.129
Sftpa1	0	0	0	8	0.133333	0	0.945565	Unclassified	chr14:41943076-41949662	4.587
Krt5	0	0	0	12	0.2	0.017557	0	Unclassified	chr15:101537500-101545322	5.823
Wfdc15b	0	0	0	13	0.216667	0	0.383135	Unclassified	chr2:164040189-164049399	7.211
Pak7	0	0	0	157	2.616667	0.018796	0.662251	Unclassified	chr2:135906823-136215703	306.881
Smc1b	0	0	0	64	1.066667	0.034896	0	Unclassified	chr15:84895118-84964387	67.27
Fiz1	0	0	0	635	10.58333	12.1797	3.782122	Unclassified	chr7:4958657-4968299	7.643
Fbln5	0	0	0	88	1.466667	0.171378	0.913682	Unclassified	chr12:102984774-103059265	72.492
Clnk	0	0	0	156	2.6	0.016193	2.107305	Unclassified	chr5:39097698-39269932	170.235
Fxr2	0	0	0	554	9.233333	19.9378	12.11885	Unclassified	chr11:69444472-69466799	20.328
Igsf8	0	0	0	147	2.45	10.5576	12.73267	Stalled	chr1:174240537-174249966	7.43
Tlx3	0	0	0	14	0.233333	0.125486	1.075168	Unclassified	chr11:33100751-33105588	2.838
Kirrel2	0	0	0	23	0.383333	0.225784	0	Unclassified	chr7:31232784-31244534	9.751
Trmt2b	0	0	0	233	3.883333	5.32923	12.79083	Stalled	chrX:130757493-130813523	54.031
BC013529	0	0	0	253	4.216667	5.35728	15.55648	Unclassified	chr10:7487744-7502715	12.972

Has3	0	0	0	399	6.65	0.164757	0.276451	Unclassified	chr8:109392141-109406802	12.662
Akr1e1	0	0	0	75	1.25	3.01433	12.88191	Stalled	chr13:4591735-4610410	16.676
Uso1	0	0	0	795	13.25	13.7119	24.72198	Unclassified	chr5:92564963-92631821	64.859
Uqcc	0	0	0	913	15.21667	7.00459	28.70846	Unclassified	chr2:155672630-155758042	83.413
Msln	0	0	0	19	0.316667	0.030299	0.478393	Unclassified	chr17:2588557-25893272	5.716
Rala	0	0	0	321	5.35	6.95622	75.85557	Stalled	chr13:17972408-18038051	63.644
P1b1	0	0	0	236	3.933333	0.108667	0.722522	Unclassified	chr5:32533080-32666729	131.65
Scn3b	0	0	0	66	1.1	0.087977	0.769891	Unclassified	chr9:40074800-40099203	22.404
Zw10	0	0	0	277	4.616667	9.95261	25.75094	Stalled	chr9:48861736-48886878	23.143
Gamt	0	0	0	298	4.966667	2.5113	0.918695	Unclassified	chr10:79720895-79725713	2.819
Gm9104	0	0	0	2	0.033333	0	1	Unclassified	chr17:45600736-45603251	0.516
Olfr1183	0	0	0	1	0.016667	0	1	Unclassified	chr2:88299498-88302410	0.913
Fabp1	0	0	0	10	0.166667	0	0.742929	Unclassified	chr6:71147881-71155017	5.137
Lrfn1	0	0	0	49	0.816667	0.477706	2.304361	Unclassified	chr7:29235003-29252567	15.565
Cwc22	0	0	0	708	11.8	7.73133	5.565126	Unclassified	chr2:77733709-77786240	50.532
Sash3	0	0	0	994	16.56667	60.6017	2.916392	Elongating	chrX:45497703-45514740	15.038
Sec1411	0	0	0	557	9.283333	6.13596	42.77001	Unclassified	chr11:116974485-117020580	44.096
Cyp2s1	0	0	0	34	0.566667	0.132026	2.744587	Unclassified	chr7:26587494-26603549	14.056
Tbata	0	0	0	62	1.033333	0.309758	0.441826	Unclassified	chr10:60632711-60651589	16.879
Rnf139	0	0	0	483	8.05	3.60455	15.35378	Unclassified	chr15:58718783-58733945	13.163
Ptk2	0	0	0	862	14.36667	3.04619	35.08882	Stalled	chr15:73035534-73255621	218.088
Wfdc8	0	0	0	23	0.383333	0.028576	0	Unclassified	chr2:164422712-164441126	16.415
Ispd	0	0	0	287	4.783333	2.35284	41.18728	Stalled	chr12:37106105-37416031	307.927
Asph	0	0	0	335	5.583333	0.798378	24.82862	Stalled	chr4:9376231-9598273	220.043
Fscn1	0	0	0	55	0.916667	4.6412	2.793926	Unclassified	chr5:143720033-143734868	12.836
Fat3	0	0	0	341	5.683333	0.027759	0.580145	Unclassified	chr9:15714636-16184675	468.04
Dsty1	0	0	0	275	4.583333	0.995487	21.60833	Stalled	chr1:134312029-134363536	49.508
Eif1b	0	0	0	284	4.733333	23.4073	11.18931	Unclassified	chr9:120399723-120404445	2.723
2810459M11Rik	0	0	0	12	0.2	0.250394	1.035796	Unclassified	chr1:87940437-87952030	9.594
Olfr849	0	0	0	0	0	0	0	Unclassified	chr9:19243358-19246297	0.94
Rbms3	0	0	0	533	8.883333	0.306366	0.558642	Unclassified	chr9:116487226-117163597	674.372
Lbp	0	0	0	26	0.433333	0.015227	0.52441	Unclassified	chr2:158130228-158158588	26.361
Saps3	0	0	0	2000	33.33333	16.8759	12.63407	Unclassified	chr19:3454927-3577749	120.823
Pbk	0	0	0	259	4.316667	6.57389	17.19468	Unclassified	chr14:66422747-66436659	11.913
Olfr860	0	0	0	3	0.05	0.096787	0	Unclassified	chr9:19650066-19656191	4.126
Nono	0	0	0	512	8.533333	81.4	11.39418	Unclassified	chrX:98622989-98643932	18.944
Vt1b	0	0	0	373	6.216667	31.2698	18.46461	Unclassified	chr12:80257004-80275445	16.442
C1d	0	0	0	316	5.266667	3.0508	34.45351	Stalled	chr11:17155620-17169179	11.56
Krtap4-1	0	0	0	0	0	0.025354	0	Unclassified	chr11:99488542-99491553	1.012
Fut8	0	0	0	1281	21.35	5.64244	84.56381	Stalled	chr12:78338007-78576974	236.968
Bicap	0	0	0	276	4.6	3.69009	19.75805	Unclassified	chr2:157382097-157394097	10.001
Olfr933	0	0	0	2	0.033333	0	2	Unclassified	chr9:38781262-38784189	0.928
Smpd3a	0	0	0	36	0.6	1.60254	8.341983	Unclassified	chr10:57512349-57531636	17.288
Bhlhb9	0	0	0	142	2.366667	6.23688	12.13193	Stalled	chrX:132418389-132425620	5.232
Tia1	0	0	0	540	9	6.05675	16.20535	Unclassified	chr6:86352212-86383399	29.188
Tial1	0	0	0	672	11.2	7.82613	30.42626	Unclassified	chr7:135583290-135607027	21.738
Cdkn2a	0	0	0	232	3.866667	16.025	18.04931	Stalled	chr4:88920376-88942523	20.148
Olfr600	0	0	0	1	0.016667	0	0	Unclassified	chr7:110494497-110497440	0.944
Rbm10	0	0	0	722	12.03333	17.6246	11.48259	Unclassified	chrX:20192884-20228031	33.148
Ghrl	0	0	0	261	4.35	0.412754	0.861359	Unclassified	chr6:113666112-113671874	3.763
Defb37	0	0	0	1	0.016667	0.07282	0	Unclassified	chr8:18986232-18993055	4.824
A730037C10Rik	0	0	0	38	0.633333	0.016953	3.305653	Unclassified	chr3:54941959-54976857	32.899
Trip12	0	0	0	1025	17.08333	11.5196	15.8615	Unclassified	chr1:84717763-84837879	118.117
Gpr4	0	0	0	69	1.15	0.119986	0.93007	Unclassified	chr7:19795886-19809525	11.64
Pvrl3	0	0	0	65	1.083333	0.166978	7.308336	Unclassified	chr16:46395117-46499080	101.964
Plunc	0	0	0	7	0.116667	0	0.470806	Unclassified	chr2:153966615-153974952	6.338
Plxna2	0	0	0	195	3.25	0.178827	1.015649	Unclassified	chr1:196444022-196643062	197.041
Plxna3	0	0	0	97	1.616667	0.944965	9.27853	Unclassified	chrX:71572404-71590028	15.625
Zmynd19	0	0	0	479	7.983333	22.2973	11.61075	Unclassified	chr2:24803321-24814933	9.613
Slc5a2	0	0	0	54	0.9	0.055396	0.435208	Unclassified	chr7:135407210-135415947	6.738
Trpv3	0	0	0	45	0.75	0.078789	2.179104	Unclassified	chr11:73079121-73110702	29.582
Cgrrf1	0	0	0	234	3.9	7.86715	30.68259	Stalled	chr14:47449918-47473865	21.948
Olfr1164	0	0	0	1	0.016667	0	1	Unclassified	chr2:87933011-87936123	1.113
Gzf1	0	0	0	288	4.8	2.47096	24.35071	Stalled	chr2:148504855-148518683	11.829
Cul1	0	0	0	965	16.08333	11.0001	31.1188	Unclassified	chr6:47402322-47476138	71.817
Kbtbd8	0	0	0	267	4.45	1.44561	21.31001	Stalled	chr6:95065899-95079781	11.883
Pcsk2	0	0	0	195	3.25	0.086506	0	Unclassified	chr2:143369868-143642016	270.149
Whamm	0	0	0	463	7.716667	8.32217	22.25487	Unclassified	chr7:88714177-88741722	25.546
Fyb	0	0	0	75	1.25	0.354147	1.074575	Unclassified	chr15:6527870-6613312	83.443
Arl11	0	0	0	15	0.25	0.47564	1.341148	Unclassified	chr14:61926589-61930773	2.185
H2-M10.6	0	0	0	2	0.033333	0	1	Unclassified	chr17:36947119-36952509	3.391
Ostb	0	0	0	15	0.25	0	1.287508	Unclassified	chr9:65260559-65272580	10.022
Actb2	0	0	0	1	0.016667	0.018731	0	Unclassified	chr13:112043220-112047957	2.738
Olfr1140	0	0	0	0	0	0	0	Unclassified	chr2:87584317-87587337	1.021
Xkr6	0	0	0	37	0.616667	0.037717	0.39999	Unclassified	chr14:64411855-64438853	24.999
Icmt	0	0	0	321	5.35	7.99137	16.85673	Unclassified	chr4:151669459-151681231	9.773
Oca2	0	0	0	148	2.466667	0.032862	0	Unclassified	chr7:63493140-63791887	296.748
ORF19	0	0	0	345	5.75	13.8249	8.113202	Unclassified	chr17:66458885-66469843	8.959
1110049B09Rik	0	0	0	82	1.366667	0.060761	0.42063	Unclassified	chr12:33718660-33779740	59.081
Krtap4-6	0	0	0	1	0.016667	0	1	Unclassified	chr11:99526356-99529274	0.919
Atp6v1b2	0	0	0	373	6.216667	17.0116	32.07649	Stalled	chr8:71610634-71637614	24.981
Sh3kbp1	0	0	0	1332	22.2	5.92263	10.11012	Stalled	chrX:156063339-156413849	348.511
Emp1	0	0	0	53	0.883333	0.221246	1.162007	Unclassified	chr6:135310948-135333191	20.244
Gpc6	0	0	0	625	10.41667	0.045687	1.889498	Unclassified	chr14:117322536-118378751	1054.216
Vprbp	0	0	0	868	14.46667	6.70284	14.72059	Unclassified	chr9:106722306-106783323	59.018
Serac1	0	0	0	528	8.8	1.117	52.36516	Stalled	chr17:6040570-6081739	39.17

Olf1056	0	0	0	3	0.05	0	2	Unclassified	chr2:86195595-86198537	0.943
Mrgpra6	0	0	0	1	0.016667	0	0	Unclassified	chr7:54441135-54446725	3.591
Efn1	0	0	0	141	2.35	0.027444	1.323688	Unclassified	chr5:140381896-140450676	66.781
Mysm1	0	0	0	749	12.483333	2.19227	40.80155	Unclassified	chr4:94608731-94647791	37.061
6330408A02Rik	0	0	0	434	7.233333	1.56897	36.29633	Unclassified	chr7:13844315-13866070	19.756
Gnpnat1	0	0	0	303	5.05	1.6527	22.8981	Unclassified	chr14:45996095-46010471	12.377
Tp1	0	0	0	488	8.133333	215.302	7.210078	Unclassified	chr6:124760609-124766314	3.706
Folr1	0	0	0	20	0.333333	0.194279	1.245229	Unclassified	chr7:109006844-109021197	12.354
E130308A19Rik	0	0	0	658	10.96667	2.92008	40.70416	Stalled	chr4:59637092-59767175	128.084
Lin7a	0	0	0	66	1.1	0.032891	1.42141	Unclassified	chr10:106706886-106862199	153.314
Rod1	0	0	0	1231	20.51667	11.7361	22.80981	Unclassified	chr4:59484741-59564236	77.496
Shmt2	0	0	0	536	8.933333	78.2442	1.891489	Elongating	chr10:126954194-126961491	5.298
Mospd2	0	0	0	201	3.35	3.47246	25.89357	Stalled	chrX:161376140-161420267	42.128
Mgat5b	0	0	0	110	1.833333	0.051217	2.380476	Unclassified	chr11:116778176-116848258	68.083
Gm4736	0	0	0	50	0.833333	0	1.676676	Unclassified	chr6:132064238-132316153	249.916
Slc26a11	0	0	0	232	3.866667	1.40433	17.92663	Stalled	chr11:119214870-119242390	25.521
Rtn4	0	0	0	579	9.65	29.3449	33.93157	Unclassified	chr11:29590897-29644414	51.518
Tmed10	0	0	0	854	14.23333	20.3187	14.06428	Unclassified	chr12:86681563-86717667	34.105
Gm11294	0	0	0	0	0	0	0	Unclassified	chr13:22334083-22336974	0.892
Ccdc38	0	0	0	344	5.733333	0.3408	7.770579	Unclassified	chr10:93001376-93047071	43.696
Olf1163	0	0	0	0	0	0.04043	0	Unclassified	chr2:87910586-87913537	0.952
Olf432	0	0	0	5	0.083333	0.10246	3	Unclassified	chr1:175978505-175981443	0.939
5330439B14Rik	0	0	0	10	0.166667	0.046036	1.152048	Unclassified	chr6:142561114-142574982	11.869
Olf430	0	0	0	1	0.016667	0.080606	0	Unclassified	chr1:175997430-176000384	0.955
Olf433	0	0	0	9	0.15	0.134257	2	Unclassified	chr1:175970063-175973065	1.003
Naa25	0	0	0	2019	33.65	11.2587	6.506684	Unclassified	chr5:121845990-121890122	42.133
Olf429	0	0	0	0	0	0	0	Unclassified	chr1:176017168-176020110	0.943
Olf512	0	0	0	2	0.033333	0	2	Unclassified	chr7:115854868-115857849	0.982
Syt16	0	0	0	169	2.816667	0.056856	1.239906	Unclassified	chr12:75096747-75368903	270.157
Med13	0	0	0	1509	25.15	5.00941	5.8033	Unclassified	chr11:86079216-86173027	91.812
Slc28a3	0	0	0	67	1.16667	0.058971	0.461537	Unclassified	chr13:58654668-58714238	57.571
Nppb	0	0	0	6	0.1	0.082156	1.473907	Unclassified	chr4:147357897-147361314	1.418
Nppc	0	0	0	18	0.3	1.98996	4.359894	Unclassified	chr1:88562865-88569147	4.283
Gm5595	0	0	0	92	1.533333	0.57671	41.45875	Stalled	chr7:49915477-49950088	32.612
Hmg11	0	0	0	1	0.016667	0	1	Unclassified	chr7:49274094-49277375	1.282
C4a	0	0	0	79	1.316667	0.206631	5.690441	Unclassified	chr17:34946036-34962399	14.364
Zfp358	0	0	0	59	0.983333	3.25626	4.338983	Unclassified	chr8:3491137-3497208	4.072
Gm5591	0	0	0	0	0	0.023739	0	Unclassified	chr7:39303157-39315212	10.056
Eno2	0	0	0	115	1.916667	2.91248	8.390037	Unclassified	chr6:124710072-124721527	9.456
Pnoc	0	0	0	35	0.583333	0.094735	0.416322	Unclassified	chr14:66019509-66046046	24.538
Tmed2	0	0	0	389	6.483333	22.4802	4.440473	Unclassified	chr5:124988799-125000512	9.714
Nfib	0	0	0	151	2.516667	0.059538	0	Unclassified	chr4:81936076-82153212	215.137
Klhl14	0	0	0	337	5.616667	5.53001	10.8507	Stalled	chr18:21708877-21812869	101.993
Npepl1	0	0	0	606	10.1	34.7421	5.3067	Unclassified	chr2:173933851-173948201	12.351
Krtap16-4	0	0	0	1	0.016667	0	0	Unclassified	chr16:88885030-88887334	0.305
Rdh9	0	0	0	6	0.1	0.02611	0	Unclassified	chr10:127211460-127229753	16.294
4930579J09Rik	0	0	0	33	0.55	0.114275	0.197764	Unclassified	chr19:10548746-10559387	8.642
4930578I06Rik	0	0	0	19	0.316667	0.024814	0	Unclassified	chr14:64589958-64608617	16.66
Clec10a	0	0	0	8	0.133333	0.028564	1.814698	Unclassified	chr11:69978275-69984336	4.062
BC055004	0	0	0	30	0.5	0.088514	0.979852	Unclassified	chr5:138665131-138693103	25.973
Ccno	0	0	0	68	1.133333	1.0111	12.77835	Stalled	chr13:113776009-113780986	2.978
Ddx47	0	0	0	313	5.216667	35.0113	3.426028	Unclassified	chr6:134959637-134973789	12.153
Chrnd	0	0	0	12	0.2	0.066064	0	Unclassified	chr1:89085226-89096645	9.42
Aadac	0	0	0	7	0.116667	0.029713	0	Unclassified	chr3:59833709-59844079	8.371
Ar15	0	0	0	1421	23.68333	10.1561	62.44089	Stalled	chr13:114582715-114947669	362.955
Fbxo36	0	0	0	252	4.2	3.24601	43.738	Stalled	chr1:84834415-84897061	60.647
Prr13	0	0	0	154	2.566667	35.2136	4.953599	Unclassified	chr15:102287600-102293236	3.637
Anapc11	0	0	0	632	10.53333	10.4286	33.75959	Unclassified	chr11:120457734-120469512	9.779
Olf134	0	0	0	1	0.016667	0.016456	0	Unclassified	chr17:38310030-38312969	0.94
Mcts2	0	0	0	82	1.366667	2.7956	59	Unclassified	chr2:152510883-152513678	0.796
2410001C21Rik	0	0	0	863	14.38333	27.0075	7.203002	Unclassified	chr2:172264077-172295399	29.323
Mrps15	0	0	0	358	5.966667	49.5004	8.523049	Unclassified	chr4:125722171-125732780	8.61
Cxx1a	0	0	0	16	0.266667	9.97707	3.010989	Unclassified	chrX:50945667-50948940	1.274
Nudt2	0	0	0	306	5.1	10.2159	40.15185	Stalled	chr4:41410180-41427959	15.78
Asf1a	0	0	0	685	11.41667	6.71212	11.20969	Unclassified	chr10:53314766-53329021	12.256
Olf1184	0	0	0	1	0.016667	0.068463	1	Unclassified	chr2:88324890-88327826	0.937
Abca6	0	0	0	48	0.8	0.055863	2.507893	Unclassified	chr11:110038137-110115090	74.954
Adhfe1	0	0	0	353	5.883333	0.099287	5.703417	Unclassified	chr1:9536126-9568049	29.924
Hipk3	0	0	0	829	13.81667	5.23598	23.37486	Unclassified	chr2:104266638-104336646	68.009
Bruno6	0	0	0	40	0.666667	0.101846	1.804929	Unclassified	chr9:59424143-59455099	28.957
Cnih	0	0	0	346	5.766667	10.6571	10.18386	Unclassified	chr14:47395241-47410032	12.792
Nlrp4e	0	0	0	19	0.316667	0	0	Unclassified	chr7:24084210-24147296	61.087
Fhl5	0	0	0	24	0.4	0	0.677258	Unclassified	chr4:25127055-25172023	42.969
Lrrc4b	0	0	0	43	0.716667	0.207399	0.737444	Unclassified	chr7:51695856-51718714	20.859
Myl10	0	0	0	25	0.416667	0.084372	1.339114	Unclassified	chr5:137167015-137176964	7.95
Camp	0	0	0	27	0.45	0	1.831945	Unclassified	chr9:109749890-109753970	2.081
Prss27	0	0	0	102	1.7	0.055772	0	Unclassified	chr17:24173209-24182916	7.708
5430435G22Rik	0	0	0	80	1.333333	0.137001	1.228209	Unclassified	chr1:133583271-133610041	24.771
Lce1c	0	0	0	2	0.033333	0	0.402271	Unclassified	chr3:92481168-92484840	1.673
Fn1	0	0	0	79	1.316667	0.254329	2.420995	Unclassified	chr1:71632096-71701745	67.65
Fam122c	0	0	0	8	0.133333	0	0	Unclassified	chrX:50624609-50654678	28.07
Gm13083	0	0	0	2	0.033333	0.009936	0.721758	Unclassified	chr4:143202905-143208498	3.594
Dmkn	0	0	0	36	0.6	0.199695	0.317885	Unclassified	chr7:31546774-31566084	17.311
Fam125a	0	0	0	108	1.8	44.6778	6.13269	Unclassified	chr8:74064828-74071925	5.098
Rhox12	0	0	0	2	0.033333	0	0	Unclassified	chrX:35457238-35466084	6.847
Esrp1	0	0	0	64	1.066667	0.072971	0.48097	Unclassified	chr4:11259184-11315930	54.747

A830093I24Rik	0	0	0	114	1.9	0.785786	52.30657	Stalled	chr12:4753021-4778073	23.053
Zfyve1	0	0	0	322	5.366667	4.74259	9.200485	Unclassified	chr12:84887890-84940097	50.208
Cdkn1b	0	0	0	426	7.1	26.2843	14.71364	Unclassified	chr6:134868418-134875543	5.126
Cyp4a32	0	0	0	10	0.166667	0.033481	0	Unclassified	chr4:115271542-115294971	21.43
BC021614	0	0	0	18	0.3	0.486394	1.699134	Unclassified	chr19:4057486-4061294	1.809
Antxrl	0	0	0	19	0.316667	0.012057	0	Unclassified	chr14:34864655-34889185	22.531
B3gnt4	0	0	0	51	0.85	0.179968	0.89983	Unclassified	chr5:123958468-123961891	1.424
Fmr1	0	0	0	320	5.333333	5.97884	45.92026	Stalled	chrX:65929729-65971136	39.408
Wdr44	0	0	0	318	5.3	3.21616	51.12381	Stalled	chrX:23268242-23383127	112.886
Sephs1	0	0	0	778	12.96667	9.52535	8.826565	Unclassified	chr2:4800609-4831602	28.994
Ube2ql1	0	0	0	46	0.766667	0.688745	1.386002	Unclassified	chr13:69841709-69880775	37.067
Sfcd1	0	0	0	876	14.6	8.11415	25.90184	Unclassified	chr12:52476566-52551083	72.518
3110035E14Rik	0	0	0	32	0.533333	0.1126	0	Unclassified	chr1:9589347-9617223	25.877
Gm5800	0	0	0	3	0.05	0	0	Unclassified	chr14:52331318-52338807	5.49
Epb4.1i4b	0	0	0	142	2.366667	0.302455	1.536193	Unclassified	chr4:57074597-57158028	81.432
Serpnb1b	0	0	0	18	0.3	0.169704	0.398445	Unclassified	chr13:33173971-33186243	10.273
V1rb3	0	0	0	1	0.016667	0	0	Unclassified	chr6:90173310-90176432	1.123
Fmo1	0	0	0	25	0.416667	0.02755	1.220194	Unclassified	chr1:164759691-164798679	36.989
Nkain4	0	0	0	23	0.383333	0.162982	0.998128	Unclassified	chr2:180669476-180691404	19.929
Golgb1	0	0	0	327	5.45	6.7611	1.045874	Unclassified	chr16:36883096-36933169	48.074
Irx4	0	0	0	28	0.466667	0.236713	0.505837	Unclassified	chr13:73395944-73407068	9.125
Dirc2	0	0	0	500	8.333333	3.9623	7.353679	Unclassified	chr16:35694988-35771442	74.455
Rac1	0	0	0	877	14.61667	38.4788	10.03842	Unclassified	chr5:144266348-144290861	22.514
Kbtbd12	0	0	0	64	1.066667	0.195273	30.4292	Stalled	chr6:88563744-88579439	13.696
Rad21	0	0	0	881	14.68333	31.4605	9.879538	Unclassified	chr15:51794150-51825306	29.157
Rad1	0	0	0	499	8.316667	12.8659	29.24646	Unclassified	chr15:10413788-10423446	7.659
Pyrox2	0	0	0	46	0.766667	0.135372	3.403733	Unclassified	chr19:42800347-42829265	26.919
4930417G10Rik	0	0	0	139	2.316667	0.058921	0.295526	Unclassified	chr12:4720610-4747189	24.58
Sspn	0	0	0	58	0.966667	0.313924	2.22595	Unclassified	chr6:145880666-145913745	31.08
Kpna6	0	0	0	467	7.783333	6.91285	9.062209	Unclassified	chr4:129321222-129352011	28.79
Rps6kc1	0	0	0	491	8.183333	2.13084	20.93024	Stalled	chr1:192619947-192737649	115.703
Cicn5	0	0	0	137	2.283333	1.75477	1.126611	Unclassified	chrX:6735944-6767840	29.897
Cicn1	0	0	0	110	1.833333	0.137382	6.10865	Unclassified	chr6:42234683-42264655	27.973
Cica1	0	0	0	8	0.133333	0.06954	0.807824	Unclassified	chr3:144393279-144425703	30.425
Cmbl	0	0	0	263	4.383333	0.049246	0.217138	Unclassified	chr15:31496666-31519874	21.209
Fastkd3	0	0	0	656	10.93333	4.47604	13.9483	Unclassified	chr13:68719124-68731156	10.033
Notum	0	0	0	26	0.433333	0.102377	1.309803	Unclassified	chr11:120515118-120524151	7.034
Atg4a	0	0	0	192	3.2	1.51479	25.54132	Stalled	chrX:137489455-137598813	107.359
Phax	0	0	0	387	6.45	18.2761	12.86949	Unclassified	chr18:56730524-56747366	14.843
Akap10	0	0	0	1079	17.98333	3.89251	24.04371	Unclassified	chr11:61684808-61745728	58.921
Crtap	0	0	0	365	6.083333	7.84223	12.10892	Unclassified	chr9:114284248-114301830	15.583
Anxa1	0	0	0	8	0.133333	0.312369	0	Unclassified	chr19:20447923-20467161	17.239
Dnajb8	0	0	0	2	0.033333	0.025558	1	Unclassified	chr6:88170261-88173250	0.99
Olfr148	0	0	0	0	0	0	0	Unclassified	chr9:39419153-39422086	0.934
Sic16a12	0	0	0	101	1.683333	0.069546	1.779139	Unclassified	chr19:34742895-34823601	78.707
AI317395	0	0	0	19	0.316667	0.810148	2.408066	Unclassified	chr10:39721385-39747074	23.69
Lipk	0	0	0	15	0.25	0.018459	0.733379	Unclassified	chr19:34080779-34122287	39.509
Ccnb1ip1	0	0	0	10	0.166667	0.042494	0.878295	Unclassified	chr14:51408923-51417403	6.481
Sic35e3	0	0	0	205	3.416667	3.48084	18.64741	Stalled	chr10:117170733-117185414	12.682
Skint8	0	0	0	10	0.166667	0	0	Unclassified	chr4:111590159-111622961	30.803
Reg1	0	0	0	2	0.033333	0	0	Unclassified	chr6:78373976-78378660	2.685
Ythdf3	0	0	0	769	12.81667	7.53599	26.47691	Unclassified	chr3:16081182-16117035	33.854
4933406M09Rik	0	0	0	18	0.3	0.065168	0.448324	Unclassified	chr1:136280516-136287560	5.045
Cela3b	0	0	0	11	0.183333	0.035635	0.486125	Unclassified	chr4:136976922-136988435	9.514
Map6d1	0	0	0	123	2.05	0.78248	0.53304	Unclassified	chr16:20233381-20243431	8.051
Vangl2	0	0	0	197	3.283333	3.06719	9.093588	Unclassified	chr1:173934501-173959399	22.899
Prps1i1	0	0	0	3	0.05	0.022941	0.403697	Unclassified	chr12:35667432-35671108	1.677
Ascc2	0	0	0	826	13.76667	16.5339	5.642645	Unclassified	chr11:4535795-4583388	45.594
Lrrc1	0	0	0	611	10.18333	4.68296	27.85253	Stalled	chr9:77278629-77394659	114.031
Chia	0	43.90717	0	14	0.233333	0.025229	0.577043	Unclassified	chr3:105914299-105935034	18.736
Ndst4	0	0	0	119	1.983333	0.040407	0	Unclassified	chr3:125105008-125427904	320.897
Abca15	0	0	0	26	0.433333	0.040839	1.544577	Unclassified	chr7:127470197-127551201	79.005
Zmat1	0	0	0	257	4.283333	0.567094	98.28197	Stalled	chrX:131505911-131545748	37.838
Prkar1b	0	0	0	188	3.133333	0.180033	1.540162	Unclassified	chr5:139493257-139607706	112.45
Oclr	0	0	0	108	1.8	0.877863	10.36977	Stalled	chrX:45263632-45319043	53.412
Olfr105	0	0	0	0	0	0	0	Unclassified	chr17:37517451-37520431	0.981
Olfr324	0	0	0	6	0.1	0.102896	3	Unclassified	chr11:58408846-58411967	1.122
Olfr479	0	0	0	0	0	0.078148	0	Unclassified	chr7:115196497-115199481	0.985
Kcnd2	0	0	0	240	4	0.039391	2.746481	Unclassified	chr6:21164108-21679805	513.698
Prdm8	0	0	0	22	0.366667	0.624471	0.710021	Unclassified	chr5:98607887-98616467	6.581
Pramef12	0	0	0	17	0.283333	0.026049	0.496729	Unclassified	chr4:143981576-144000367	16.792
Rnase9	0	0	0	2	0.033333	0.043189	2	Unclassified	chr14:51658133-51663542	3.41
Nipa3	0	0	0	155	2.583333	3.94465	8.207512	Unclassified	chr4:135004815-135052419	45.605
Kbtbd7	0	0	0	167	2.783333	2.12595	16.05965	Stalled	chr14:79824317-79830843	4.527
Rgs16	0	0	0	156	2.6	1.49829	5.805298	Unclassified	chr1:155585482-155592598	5.117
Sic6a9	0	0	0	240	4	1.78117	3.620998	Unclassified	chr4:117505862-117541910	34.049
4930542N07Rik	0	0	0	1	0.016667	0	1	Unclassified	chrX:150914544-150919225	2.682
Tbx6	0	0	0	476	7.933333	0.971292	0.354418	Unclassified	chr7:133922996-133929062	4.067
Kcnc3	0	0	0	151	2.516667	2.14801	16.74113	Stalled	chr7:51844255-51860121	13.867
4930538K18Rik	0	0	0	41	0.683333	0.051129	2.30794	Unclassified	chr4:118877659-118892822	13.164
Tbx1	0	0	0	9	0.15	0.273468	1.37978	Unclassified	chr16:18581805-18589062	5.258
Tbx4	0	0	0	47	0.783333	0.047697	1.120413	Unclassified	chr11:85701564-85729599	26.036
Tbx3	0	0	0	23	0.383333	0.280724	0.810046	Unclassified	chr5:120118677-120134610	13.934
Tbx2	0	0	0	37	0.616667	0.446161	0.917573	Unclassified	chr11:85644116-85655450	9.335
Tbx15	0	0	0	95	1.583333	0.136535	1.575213	Unclassified	chr3:99055682-99158183	100.502
Ippk	0	0	0	665	11.08333	2.17414	34.64739	Unclassified	chr13:49514679-49558359	41.681

Defb6	0	0	0	3	0.05	0	0.464238	Unclassified	chr8:19223477-19228209	2.733
Mpz	0	0	0	200	3.333333	0.273117	69.14676	Stalled	chr1:173078843-173091254	10.412
Opzd1	0	0	0	59	0.983333	0.375841	0.755215	Unclassified	chr4:131666640-131702401	33.762
Mest	0	0	0	69	1.15	0.497019	1.436785	Unclassified	chr6:30686062-30698457	10.396
Met	0	0	0	98	1.633333	0.065454	1.611008	Unclassified	chr6:17411956-17523980	110.025
Mpp1	0	0	0	210	3.5	9.05684	7.633244	Unclassified	chrX:72355071-72378288	21.218
Mpo	0	0	0	24	0.4	0.090506	1.045532	Unclassified	chr11:87605285-87617913	10.629
Mesp1	0	0	0	9	0.15	0.458563	5	Unclassified	chr7:86937127-86940476	1.35
Mesp2	0	0	0	9	0.15	0.234818	1.81258	Unclassified	chr7:86953612-86958317	2.706
Nsun5	0	0	0	466	7.766667	11.0106	4.174961	Unclassified	chr5:135843822-135852667	6.846
Btbd1	0	0	0	476	7.933333	8.95571	21.41138	Unclassified	chr7:88936959-88976317	37.359
Lrrc58	0	0	0	516	8.6	23.5746	22.41396	Unclassified	chr16:37866485-37888943	20.459
Ccnb3	0	0	0	15	0.25	0.025329	0	Unclassified	chrX:6556777-6620745	61.969
Ace2	0	0	0	24	0.4	0.021564	0	Unclassified	chrX:160575273-160626350	49.078
Alms1	0	0	0	259	4.316667	1.93505	25.11026	Stalled	chr6:85535524-85652745	115.222
Fndc7	0	0	0	104	1.733333	0.143719	0.26302	Unclassified	chr3:108656595-108694926	36.332
MsrB3	0	0	0	364	6.066667	1.81432	5.909478	Unclassified	chr10:120218156-120338027	117.872
Ndufb11	0	0	0	249	4.15	65.3893	24.82684	Stalled	chrX:20192451-20196690	2.24
Aire	0	0	0	141	2.35	1.3085	5.476281	Unclassified	chr10:77492775-77508325	13.551
Plin2	0	0	0	62	1.033333	3.65979	13.40306	Stalled	chr4:86302468-86317963	13.496
Ak1	0	0	0	21	0.35	0.195332	0	Unclassified	chr2:32483023-32490572	5.55
Aim1	0	0	0	572	9.533333	4.29227	1.988116	Elongating	chr10:43670112-43726652	54.541
Fbxw19	0	0	0	13	0.216667	0.012372	0	Unclassified	chr9:109381088-109400368	17.281
Ifi205	0	0	0	4	0.066667	4.04872	0.862126	Unclassified	chr1:175942128-175963886	19.759
Chmp7	0	0	0	350	5.833333	14.8847	25.7948	Unclassified	chr14:70116785-70134377	15.593
Ormdl1	0	0	0	325	5.416667	2.86655	81.38506	Stalled	chr1:53351938-53367089	13.152
Oscp1	0	0	0	217	3.616667	2.91772	17.97625	Stalled	chr4:125733808-125766578	30.771
Npy1r	0	0	0	10	0.166667	0.017049	0.51154	Unclassified	chr8:69219320-69230697	9.378
Nkx6-3	0	0	0	10	0.166667	0.527326	0.43815	Unclassified	chr8:24261742-24269420	5.679
Olfr1303	0	0	0	1	0.016667	0	0	Unclassified	chr2:111653944-111656881	0.938
Tmem62	0	0	0	322	5.366667	3.46717	29.24323	Stalled	chr2:120800797-120833578	30.782
Dcpp1	0	0	0	3	0.05	0	0	Unclassified	chr17:24015842-24019820	1.979
Polr2k	0	0	0	180	3	12.0682	32.36111	Stalled	chr15:36101771-36106767	2.997
Pcbd1	0	0	0	57	0.95	0.332275	1.7251	Unclassified	chr10:60550090-60557077	4.988
Stac3	0	0	0	103	1.716667	0.673036	2.05803	Elongating	chr10:126936772-126945871	7.1
Sod2	0	0	0	291	4.85	10.7683	24.0428	Stalled	chr17:13198704-13210985	10.282
Atad5	0	0	0	671	11.18333	4.92695	10.52327	Unclassified	chr11:79900901-79949293	46.393
2310021P13Rik	0	0	0	545	9.083333	12.8441	7.808397	Unclassified	chr14:21524773-21542840	16.068
Sod1	0	0	0	524	8.733333	237.806	15.03094	Unclassified	chr16:90218986-90226569	5.584
Vkorc1	0	0	0	83	1.383333	8.39477	3.105181	Unclassified	chr7:135036576-135041131	2.556
Olfr1143	0	0	0	0	0	0.054249	0	Unclassified	chr2:87640547-87643492	0.946
Olfr478	0	0	0	2	0.033333	0	2	Unclassified	chr7:115174910-115177855	0.946
Gm216	0	0	0	22	0.366667	0.274335	0.513318	Unclassified	chr1:74406681-74415895	7.215
Zxdc	0	0	0	389	6.483333	5.16147	19.61501	Unclassified	chr6:90317487-90353480	33.994
Cebpg	0	0	0	378	6.3	6.13726	14.6728	Unclassified	chr7:35831440-35843585	10.146
Olfr1167	0	0	0	0	0	0	0	Unclassified	chr2:87989141-87992240	1.1
Fam46b	0	0	0	23	0.383333	0.386506	2.89606	Unclassified	chr4:133034047-133043855	7.809
Gm15114	0	0	0	0	0	0	0	Unclassified	chrX:144921491-144955989	32.499
Zcchc17	0	0	0	674	11.23333	20.2162	40.15486	Unclassified	chr4:129993328-130039190	43.863
Sftpc	0	0	0	8	0.133333	0.208005	0.299622	Unclassified	chr14:70920750-70925888	3.139
Fam126a	0	0	0	457	7.616667	5.36491	31.82925	Stalled	chr5:23466753-23538501	69.749
Hes7	0	0	0	27	0.45	4.57346	0.151882	Unclassified	chr11:68931954-68936761	2.808
Gipc1	0	0	0	477	7.95	22.6561	9.533922	Unclassified	chr8:86174576-86188688	12.113
Vps4b	0	0	0	601	10.01667	10.6329	17.73432	Unclassified	chr1:108667364-108695302	25.939
Olfr611	0	0	0	0	0	0	0	Unclassified	chr7:110665924-110668896	0.973
Six2	0	0	0	10	0.166667	0.255354	1.797113	Unclassified	chr17:86083607-86089594	3.988
Six3	0	0	0	6	0.1	0.294364	0	Unclassified	chr17:86018173-86025530	5.358
Zc3h12b	0	0	0	77	1.283333	0.567393	9.283448	Unclassified	chrX:92905016-93123309	216.294
Six1	0	0	0	14	0.233333	0.233924	1.634979	Unclassified	chr12:74142813-74149699	4.887
Six6	0	0	0	8	0.133333	0.074424	1.491704	Unclassified	chr12:74038931-74045886	4.956
A630007B06Rik	0	0	0	191	3.183333	1.38668	1.46525	Unclassified	chr19:56865452-56890173	22.722
Six4	0	0	0	19	0.316667	0.558804	0.428326	Unclassified	chr12:74201245-74216232	12.988
Lmod1	0	0	0	42	0.7	0.071527	1.053007	Unclassified	chr1:137219389-137264642	43.254
Tsga14	0	0	0	239	3.983333	1.06539	35.18956	Stalled	chr6:30603456-30645682	40.227
Tmem2	0	0	0	254	4.233333	1.84851	19.13064	Stalled	chr19:21850831-21932817	79.987
Gabbrp	0	0	0	22	0.366667	0.027352	1.152147	Unclassified	chr11:33450780-33480957	28.178
Oxtr	0	0	0	25	0.416667	0.070142	0.44324	Unclassified	chr6:112423677-112441802	16.126
Clspn	0	0	0	841	14.01667	10.5289	14.91595	Unclassified	chr4:126232223-126271146	36.924
Zscan20	0	0	0	320	5.333333	2.07167	9.782074	Unclassified	chr4:128260782-128289342	26.561
Tradd	0	0	0	289	4.816667	17.053	8.474398	Unclassified	chr8:107782474-107790494	6.021
P2rx7	0	0	0	170	2.833333	1.54019	5.89473	Unclassified	chr5:123091919-123141441	47.523
P2rx4	0	0	0	688	11.46667	6.70612	16.08784	Unclassified	chr5:123155565-123179051	21.487
5430402E10Rik	0	0	0	0	0	0	0	Unclassified	chrX:75231629-75238906	5.278
Fam171a1	0	0	0	118	1.966667	0.166928	4.026422	Unclassified	chr2:3033659-3145081	109.423
Ceacam20	0	0	0	21	0.35	0.033198	0.592336	Unclassified	chr7:20548760-20576460	25.701
Crhr1	0	0	0	89	1.483333	0.03695	0.326219	Unclassified	chr11:103992195-104036832	42.638
Crhr2	0	0	0	68	1.133333	0.014487	1.176309	Unclassified	chr6:55040041-55084966	42.926
Crip1	0	0	0	44	0.733333	22.5887	4.048333	Unclassified	chr12:114388222-114392090	1.869
Ropn1	0	0	0	29	0.483333	0.060741	0	Unclassified	chr16:34649296-34678696	27.401
Crk	0	0	0	1193	19.88333	13.9786	9.299025	Unclassified	chr11:75490811-75519594	26.784
Ick	0	0	0	209	3.483333	1.31789	5.199317	Unclassified	chr9:77959044-78019914	58.871
Atoh7	0	0	0	6	0.1	5.0403	5	Unclassified	chr10:62560903-62563353	0.451
Nsun7	0	0	0	58	0.966667	0.165589	9.35958	Unclassified	chr5:66649363-66689255	37.893
Dsnd2	0	0	0	51	0.85	1.06384	3.07564	Unclassified	chr2:164309639-164318823	7.185
Phyhipl	0	0	0	35	0.583333	0.071514	1.183757	Unclassified	chr10:70020433-70064039	41.607
Insc	0	0	0	117	1.95	0.016566	0.473963	Unclassified	chr7:121887279-121993894	104.616

D630042F21Rik	0	0	0	8	0.133333	0.057952	0.531484	Unclassified	chr6:129460574-129469245	6.672
Nod1	0	0	0	152	2.533333	0.788083	11.79162	Stalled	chr6:54873935-54924606	48.672
Rdh1	0	0	0	19	0.316667	0.034583	0.349986	Unclassified	chr10:127194818-127205355	8.538
Aadat	0	0	0	19	0.316667	0.251806	1.439828	Unclassified	chr8:62982920-63024474	39.555
Oprl1	0	0	0	17	0.283333	0.099654	0.990623	Unclassified	chr2:181447748-181455677	5.93
BC015286	0	0	0	12	0.2	0.026637	0.857959	Unclassified	chr8:107353543-107362552	7.01
Oprk1	0	0	0	9	0.15	0	0	Unclassified	chr1:5576573-5592947	14.375
Tnfrsf11b	0	0	0	16	0.266667	0	0.641723	Unclassified	chr15:54082173-54112039	27.867
Zbtb41	0	0	0	410	6.833333	1.00693	51.53981	Stalled	chr1:141316959-141349584	30.626
Prr15	0	0	0	7	0.116667	0.825704	0.522673	Unclassified	chr6:54275005-54280194	3.19
BC020535	0	0	0	38	0.633333	0.041611	0.906962	Unclassified	chr2:152889737-152907469	15.733
Ido1	0	0	0	598	9.966667	10.3913	3.758028	Unclassified	chr8:25694612-25709481	12.87
Khdc1c	0	0	0	0	0	0.02319	0	Unclassified	chr1:21356411-21359824	1.414
V1rc16	0	0	0	1	0.016667	0	1	Unclassified	chr6:57310460-57313372	0.913
Parm1	0	0	0	441	7.35	10.4335	11.98306	Stalled	chr5:91944725-92053022	106.298
Galnt7	0	0	0	775	12.91667	3.12203	19.45695	Stalled	chr8:60002622-60133852	129.231
Olfr16	0	0	0	3	0.05	0	2	Unclassified	chr1:174884898-174887948	1.051
Pea15a	0	0	0	508	8.466667	6.91878	2.064668	Elongating	chr1:174126859-174138912	10.054
Olfr1289	0	0	0	3	0.05	0.020165	2	Unclassified	chr2:111321588-111324485	0.898
V1rc15	0	0	0	9	0.15	0.027284	0	Unclassified	chr6:66502176-66511702	7.527
Ergic3	0	0	0	244	4.066667	47.3939	8.21608	Unclassified	chr2:155831860-155844015	10.156
2310022A10Rik	0	0	0	512	8.533333	10.3663	14.83233	Unclassified	chr7:28336313-28367117	28.805
Zfand1	0	0	0	309	5.15	3.37088	7.360271	Unclassified	chr3:10339955-10353301	11.347
Exosc3	0	0	0	324	5.4	52.6108	14.49606	Unclassified	chr4:45329501-45335475	3.975
Ttll12	0	0	0	409	6.816667	10.7918	9.565381	Unclassified	chr15:83405523-83427587	20.065
Syt12	0	0	0	63	1.05	0.185768	1.028038	Unclassified	chr19:4445907-4479143	31.237
V1rc10	0	0	0	0	0	0.028132	0	Unclassified	chr6:66679385-66682294	0.91
V1rc11	0	0	0	0	0	0.06964	0	Unclassified	chr6:66665965-66668883	0.919
V1rc13	0	0	0	0	0	0	0	Unclassified	chr6:66726215-66729124	0.91
V1rc14	0	0	0	0	0	0.013961	0	Unclassified	chr6:66561644-66564562	0.919
Zswim4	0	0	0	480	8	5.40818	5.21791	Unclassified	chr8:86734840-86762941	26.102
Fam195a	0	0	0	103	1.716667	5.96795	5.280006	Unclassified	chr17:26000642-26007683	5.042
Rpa3	0	0	0	232	3.866667	20.608	31.40451	Stalled	chr6:8205936-8211141	3.206
A930018P22Rik	0	0	0	15	0.25	3.12845	1.769632	Unclassified	chr2:103960925-103964903	1.979
Pdyn	0	0	0	7	0.116667	0	0.356952	Unclassified	chr2:129513736-129517604	1.869
8030462N17Rik	0	0	0	815	13.58333	3.41146	29.75363	Unclassified	chr18:77872019-77954749	80.731
Dsg1b	0	0	0	5	0.083333	0.009506	0	Unclassified	chr18:20533335-20568242	32.908
Rasl11b	0	0	0	103	1.716667	1.1236	15.25675	Stalled	chr5:74589350-74595502	4.153
Spata6	0	0	0	420	7	3.6534	21.61961	Stalled	chr4:111390614-111501745	109.132
Armcx2	0	0	0	84	1.4	4.73176	4.071156	Unclassified	chrX:131338682-131345760	5.079
Rps27l	0	0	0	359	5.983333	57.1575	32.31327	Stalled	chr9:66791924-66797315	3.392
6330407J23Rik	0	0	0	36	0.6	0.09419	1.246868	Unclassified	chr10:28861801-28919434	55.634
Rtcd1	0	0	0	330	5.5	19.3121	12.46751	Unclassified	chr3:116191881-116213093	19.213
3632451O06Rik	0	0	0	74	1.233333	0.018656	0.578887	Unclassified	chr14:50301693-50405042	101.35
Mki67ip	0	0	0	545	9.083333	19.0119	5.063281	Unclassified	chr1:120216419-120230408	11.99
Cep120	0	0	0	864	14.4	6.13971	12.25218	Unclassified	chr18:53841376-53906201	62.826
Arrb2	0	0	0	194	3.233333	12.1995	13.92944	Stalled	chr11:70244154-70254176	8.023
Ugt2b38	0	0	0	3	0.05	0	0	Unclassified	chr5:87838966-87855228	14.263
Zfp874	0	0	0	25	0.416667	1.26985	5.51176	Unclassified	chr13:67541367-67554560	11.194
Zfp58	0	0	0	126	2.1	4.43585	20.1362	Stalled	chr13:67591102-67603458	10.357
Zfp458	0	0	0	82	1.366667	0.126337	18.2705	Stalled	chr13:67355853-67372004	14.152
Gm949	0	0	0	13	0.216667	0.00569	0.487377	Unclassified	chr18:47079468-47093876	12.409
Vmn2r65	0	0	0	7	0.116667	0	0	Unclassified	chr7:92088678-92114519	23.842
Mgl2	0	0	0	7	0.116667	0.057861	1.822028	Unclassified	chr11:69941858-69951044	7.187
Sic16a11	0	0	0	57	0.95	0.496101	0.321229	Unclassified	chr11:70025411-70029916	2.506
AA792892	0	0	0	2	0.033333	0.036073	0	Unclassified	chr5:94804364-94813359	6.996
Ghitm	0	0	0	550	9.166667	31.1373	23.05335	Unclassified	chr14:37934003-37950452	14.45
Ypel3	0	0	0	150	2.5	29.1234	6.294798	Unclassified	chr7:133918488-133924028	3.541
Klhl11	0	0	0	318	5.3	5.64909	23.58367	Unclassified	chr11:100323925-100336096	10.172
Plekhh3	0	0	0	46	0.766667	1.01428	4.41629	Unclassified	chr11:101023992-101034616	8.625
Gm6531	0	0	0	16	0.266667	0.626111	0.614243	Unclassified	chr8:87673822-87697521	21.7
Muc19	0	0	0	60	1	0	0.621487	Unclassified	chr15:91666756-91764986	96.231
Emilin2	0	0	0	154	2.566667	0.508064	1.718342	Unclassified	chr17:71601515-71662305	58.791
2900006K08Rik	0	0	0	315	5.25	1.07835	8.232898	Unclassified	chr12:85748017-85774730	24.714
Zfp280c	0	0	0	189	3.15	2.03042	0.424037	Unclassified	chrX:45894803-45947310	50.508
Thns1	0	0	0	137	2.283333	1.05233	43.50424	Stalled	chr2:21125350-21136636	9.287
2700097O09Rik	0	0	0	307	5.116667	4.18452	29.92274	Stalled	chr12:56146647-56183097	34.451
6430573F11Rik	0	0	0	16	0.266667	0.063204	0	Unclassified	chr8:37550244-37576067	23.824
Tas2r122	0	0	0	1	0.016667	0.027562	0	Unclassified	chr6:132661016-132663946	0.931
Tmem204	0	0	0	299	4.983333	0.821082	1.991194	Elongating	chr17:25194646-25220059	23.414
Sic12a9	0	0	0	525	8.75	9.85919	6.450162	Unclassified	chr5:137755786-137776810	19.025
Fstl1	0	0	0	59	0.983333	0.1456	1.545781	Unclassified	chr16:37775140-37836602	59.463
Olfr108	0	0	0	2	0.033333	0.069142	1	Unclassified	chr17:37580467-37583430	0.964
Olfr1202	0	0	0	0	0	0.027562	0	Unclassified	chr2:88655329-88658259	0.931
Olfr1204	0	0	0	0	0	0	0	Unclassified	chr2:88690108-88693038	0.931
Olfr1137	0	0	0	0	0	0	0	Unclassified	chr2:87551128-87554061	0.934
Kdelr2	0	0	0	875	14.58333	18.319	6.794075	Unclassified	chr5:144163498-144182951	17.454
Olfr1152	0	0	0	0	0	0.027473	0	Unclassified	chr2:87706149-87709082	0.934
Olfr165	0	0	0	2	0.033333	0.054422	1	Unclassified	chr16:19407168-19410110	0.943
Olfr1388	0	0	0	2	0.033333	0.068852	1	Unclassified	chr11:49255354-49258290	0.937
BC023744	0	0	0	77	1.283333	0.388677	9.724616	Unclassified	chr5:117767274-117805015	35.742
Pσμα3	0	0	0	619	10.31667	17.2897	11.9626	Unclassified	chr12:72073609-72095908	20.3
Sirt1	0	0	0	524	8.733333	3.15348	18.34331	Unclassified	chr10:62781754-62803743	19.99
Zer1	0	0	0	607	10.11667	5.03475	16.438	Unclassified	chr2:29952802-29981974	27.173
Elf4e3	0	0	0	254	4.233333	5.6195	8.908492	Unclassified	chr6:99575130-99618765	41.636
Sic29a4	0	0	0	56	0.933333	0.344393	3.011337	Unclassified	chr5:143176054-143198443	20.39

Naa16	0	0	0	771	12.85	2.71866	34.88084	Unclassified	chr14:79734313-79792475	56.163
Snrk	0	0	0	368	6.133333	4.39512	14.83875	Stalled	chr9:122024383-122078818	52.436
Haus1	0	0	0	305	5.083333	8.62684	15.38343	Unclassified	chr18:77996305-78008519	10.215
St8sia5	0	0	0	88	1.466667	0.027355	3.253489	Unclassified	chr18:77422585-77494188	69.604
A430107013Rik	0	0	0	231	3.85	0.750904	3.278817	Unclassified	chr6:21933909-22205606	269.698
Gm4956	0	0	0	20	0.333333	0.066984	0.401357	Unclassified	chr1:21275326-21290393	13.068
Phyhd1	0	0	0	115	1.916667	1.29895	3.405878	Unclassified	chr2:30120068-30137668	15.601
Trpc4	0	0	0	86	1.433333	0.014981	0.657653	Unclassified	chr3:53958025-54122389	162.365
Chst7	0	0	0	110	1.833333	4.10375	3.057284	Unclassified	chrX:19634695-19674646	37.952
Csrp2bp	0	0	0	792	13.2	0	20.66342	Unclassified	chr2:144192770-144233411	38.642
Wbp11	0	0	0	822	13.7	43.4266	9.744683	Unclassified	chr6:136762175-136778737	14.563
Trpc3	0	0	0	62	1.033333	0.083172	3.386738	Unclassified	chr3:36519403-36591089	69.687
Olfr703	0	0	0	4	0.066667	0.026701	2	Unclassified	chr7:113986126-113989086	0.961
Rhobtb3	0	0	0	52	0.866667	0.347788	3.046372	Unclassified	chr13:76006984-76083272	74.289
Tpbbp	0	0	0	3	0.05	0	0.718627	Unclassified	chr13:61002655-61008208	3.554
Slc19a2	0	0	0	387	6.45	3.868	39.28253	Stalled	chr1:166177185-166195499	16.315
Tex13a	0	0	0	1	0.016667	0	0	Unclassified	chrX:134742703-134746119	1.417
Tmem63c	0	0	0	107	1.783333	0	1.51941	Unclassified	chr12:88365513-88430989	63.477
Adam1a	0	0	0	82	1.366667	0.478252	1.531701	Elongating	chr5:121968612-121973704	3.093
4930449I24Rik	0	0	0	1	0.016667	0	0	Unclassified	chr5:147311974-147316759	2.786
Pvalb	0	0	0	31	0.516667	0.431042	0.325054	Unclassified	chr15:78021547-78036586	13.04
Pura	0	0	0	705	11.75	26.6944	4.294074	Unclassified	chr18:36438815-36447896	7.082
Purb	0	0	0	351	5.85	60.4238	3.270593	Unclassified	chr11:6374784-6377920	1.137
Gdf5	0	0	0	6	0.1	0.049869	1.539064	Unclassified	chr2:155766762-155773100	4.339
Abcd3	0	0	0	269	4.483333	3.72485	32.46709	Stalled	chr3:121461827-121520133	56.307
E430018J23Rik	0	0	0	138	2.3	6.18147	5.685312	Unclassified	chr7:134534350-134539135	2.786
Olfr1305	0	0	0	0	0	0.150138	0	Unclassified	chr2:111713071-111716010	0.94
Zcchc5	0	0	0	4	0.066667	0.013047	0	Unclassified	chrX:104032420-104037982	3.563
Bbs12	0	0	0	129	2.15	0.689786	11.04985	Stalled	chr3:37209475-37220373	8.899
Cilp	0	0	0	33	0.55	0.043205	0.664425	Unclassified	chr9:65110986-65128412	15.427
Olfr1030	0	0	0	4	0.066667	0.040177	4	Unclassified	chr2:85821998-85824955	0.958
Gpr174	0	0	0	182	3.033333	1.55342	2.662616	Unclassified	chrX:104449366-104490646	39.281
A630033H20Rik	0	0	0	146	2.433333	1.17241	0.605757	Unclassified	chrX:104342265-104369000	24.736
1700003M02Rik	0	0	0	43	0.716667	0.311889	3.22303	Unclassified	chr4:34635823-34679444	41.622
Rnf208	0	0	0	39	0.65	0.576879	0.120927	Unclassified	chr2:25096448-25099781	1.334
Ctsm	0	0	0	3	0.05	0.025668	0.814712	Unclassified	chr13:61637803-61645199	5.397
LOC100039801	0	0	0	1	0.016667	0	0	Unclassified	chr8:48905496-48908159	0.664
Arrdc4	0	0	0	21	0.35	0.390953	3.710633	Unclassified	chr7:75881879-75896124	12.246
Cdc42ep3	0	0	0	128	2.133333	2.24791	16.85215	Stalled	chr17:79733364-79756431	21.068
1700012B09Rik	0	0	0	27	0.45	0.112589	1.39922	Unclassified	chr9:14562639-14577474	12.836
1700007K13Rik	0	0	0	14	0.233333	0.408353	0.539554	Unclassified	chr2:28317520-28323844	4.325
Psmd6	0	0	0	277	4.616667	40.0431	9.514792	Unclassified	chr14:14944698-14955418	8.721
Nhedc1	0	0	0	64	1.066667	0.085633	0	Unclassified	chr3:135009000-135060791	49.792
Usp16	0	0	0	892	14.86667	11.2397	14.67772	Unclassified	chr16:87453229-87483756	28.528
Crot	0	0	0	262	4.366667	2.50997	40.2659	Stalled	chr5:8966047-8999146	31.1
Pi16	0	0	0	39	0.65	0.045671	0.200391	Unclassified	chr17:29453826-29465847	10.022
Slco6c1	0	0	0	21	0.35	0	0	Unclassified	chr1:98956025-99026880	68.856
Olfr1189	0	0	0	1	0.016667	0.027831	1	Unclassified	chr2:88429962-88432883	0.922
Klk8	0	0	0	12	0.2	0.436259	2.142157	Unclassified	chr7:51050946-51059192	6.247
Shkbp1	0	0	0	231	3.85	15.255	9.536423	Unclassified	chr7:28127151-28143027	13.877
Zgpl1	0	0	0	123	2.05	0.558335	4.150794	Unclassified	chr9:20866836-20873537	4.702
Tubgcp3	0	0	0	1147	19.11667	8.86344	13.60263	Unclassified	chr8:12614276-12674100	57.825
Akap9	0	0	0	1050	17.5	4.047	19.87067	Unclassified	chr5:3926185-4080204	152.02
Ensa	0	0	0	453	7.55	44.1763	7.955756	Unclassified	chr3:95426901-95436039	7.139
Arl5b	0	0	0	372	6.2	1.16748	62.77702	Stalled	chr2:14974988-15000818	23.831
9230104L09Rik	0	0	0	6	0.1	0.077911	0.51784	Unclassified	chr2:148672449-148678670	4.222
Gm14085	0	0	0	27	0.45	2.15603	0	Unclassified	chr2:122308676-122353776	43.101
2310079N02Rik	0	0	0	158	2.633333	7.58492	8.999114	Unclassified	chr8:128256102-128272134	14.033
Gde1	0	0	0	339	5.65	13.5849	11.94643	Unclassified	chr7:125832071-125851252	17.182
4930588N13Rik	0	0	0	38	0.633333	0.386952	0.453842	Unclassified	chr5:150240280-150273194	30.915
5430433E21Rik	0	0	0	17	0.283333	0.56549	3.629816	Unclassified	chr9:65236490-65241459	2.97
Braf	0	0	0	807	13.45	2.69491	13.022	Unclassified	chr6:39553236-39677462	122.227
Lrrc4	0	0	0	178	2.966667	0	1.316896	Elongating	chr6:28778125-28783747	3.623
Lcn3	0	0	0	5	0.083333	0	0.338041	Unclassified	chr2:25619088-25623619	2.532
Lcn4	0	0	0	5	0.083333	0.033117	1.132321	Unclassified	chr2:26523193-26528802	3.61
Ldb2	0	0	0	228	3.8	0.025787	0.591006	Unclassified	chr5:44863371-45192946	327.576
Bgn	0	0	0	14	0.233333	0.016094	0.485045	Unclassified	chrX:70726973-70741275	12.303
Ano6	0	0	0	1123	18.71667	4.95754	32.10385	Unclassified	chr15:95619273-95805182	183.91
Bhmt	0	0	0	20	0.333333	0.022384	0.511179	Unclassified	chr13:94386845-94409713	20.869
Ncald	0	0	0	337	5.616667	0.163206	1.12019	Unclassified	chr15:37295929-37724183	426.255
Ammecr1	0	0	0	336	5.6	2.20595	36.59903	Stalled	chrX:139288016-139403271	113.256
Ii17b	0	0	0	17	0.283333	0.092604	0.461933	Unclassified	chr18:61845588-61852191	4.604
Mbl1	0	0	0	12	0.2	0.083313	1.44502	Unclassified	chr14:41962744-41972248	7.505
Mbd2	0	0	0	1290	21.5	34.7317	11.48633	Unclassified	chr18:70725945-70785785	57.841
Guca1b	0	0	0	47	0.783333	0.330801	2.100064	Unclassified	chr17:47520341-47529916	7.576
Acaca	0	0	0	1396	23.26667	5.23413	0.906761	Unclassified	chr11:84006939-84215153	206.215
Jph1	0	0	0	54	0.9	0.608074	2.678675	Unclassified	chr1:16987544-17089879	100.336
Abcg3	0	0	0	83	1.383333	0.396951	11.47479	Stalled	chr5:105364075-105413736	47.662
Rpp40	0	0	0	220	3.666667	2.46383	17.67621	Stalled	chr13:35986972-36000216	11.245
C85627	0	0	0	11	0.183333	0.008437	0	Unclassified	chr9:109579247-109607214	25.968
Rnf133	0	0	0	0	0	0.058791	0	Unclassified	chr6:23598868-23602305	1.438
Gyg	0	0	0	271	4.516667	5.4393	16.01125	Stalled	chr3:20021969-20056995	33.027
V1rd3	0	0	0	4	0.066667	0.020987	0.454446	Unclassified	chr7:5146517-5150349	1.833
V1rd4	0	0	0	2	0.033333	0.044148	0	Unclassified	chr7:5360491-5366747	4.257
Syncrip	0	0	0	1155	19.25	35.7726	10.26851	Unclassified	chr9:88344575-88379235	32.661
V1rd14	0	0	0	0	0	0	0	Unclassified	chr7:23195249-23199685	2.437

V1rd9	0	0	0	2	0.033333	0	2	Unclassified	chr7:24441334-24445682	2.349
V1rd6	0	0	0	4	0.066667	0	4	Unclassified	chr7:59593352-5964612	3.261
Glb112	0	0	0	56	0.933333	0.010431	0	Unclassified	chr9:26570628-26616002	43.375
Adamts3	0	0	0	123	2.05	0.19619	2.548779	Unclassified	chr5:90105945-90314431	206.487
Fdx1	0	0	0	210	3.5	8.21426	21.37906	Stalled	chr9:51751411-51773638	20.228
Vat1	0	0	0	299	4.983333	10.0991	0.488418	Unclassified	chr11:101320061-101329513	7.453
Gm4769	0	0	0	12	0.2	0.397644	3.873028	Unclassified	chr17:22281325-22304944	21.62
Ecsit	0	0	0	305	5.083333	12.9169	9.716755	Unclassified	chr9:21876689-21891826	13.138
Spag1	0	0	0	386	6.433333	1.43299	9.959181	Unclassified	chr15:36107284-36164932	55.649
Ugt2b35	0	0	0	5	0.083333	0	0	Unclassified	chr5:87427884-87442299	12.416
Tpsg1	0	0	0	19	0.316667	0.011565	0.171058	Unclassified	chr17:25505497-25511385	3.889
Trpc7	0	0	0	154	2.566667	0.034545	0.442586	Unclassified	chr13:56874468-56998949	122.482
Fabp2	0	0	0	1	0.016667	0	0	Unclassified	chr3:122596309-122602424	4.116
Dmrt2	0	0	0	15	0.25	0.603098	6.504311	Unclassified	chr19:25744900-25753481	6.582
Ldlrad1	0	0	0	59	0.983333	0.027067	4.113051	Unclassified	chr4:106879784-106890519	8.736
Fabp3	0	0	0	73	1.216667	0.329827	0.606041	Unclassified	chr4:129984021-129992707	6.687
F9	0	0	0	23	0.383333	0.243853	0.627298	Unclassified	chrX:57250640-57283935	31.296
F8a	0	0	0	212	3.533333	6.41759	25.76378	Stalled	chrX:70471644-70476134	2.491
Rimklb	0	0	0	35	0.583333	0.146764	3.983734	Unclassified	chr6:122403626-122438323	32.698
Mfsd5	0	0	0	412	6.866667	15.6679	9.932039	Unclassified	chr15:102107886-102112175	2.29
Nmb	0	0	0	89	1.483333	4.89449	2.070441	Elongating	chr7:88047114-88051957	2.844
Zfp706	0	0	0	819	13.65	18.1276	19.16353	Unclassified	chr15:36926783-36939157	10.375
4930504013Rik	0	0	0	3	0.05	0	0	Unclassified	chr11:58259650-58268425	6.776
Fam122a	0	0	0	424	7.066667	17.3737	32.69027	Unclassified	chr19:24550268-24553964	1.697
Rbm42	0	0	0	497	8.283333	48.111	10.09215	Unclassified	chr7:31426013-31437247	9.235
Agr3	0	0	0	27	0.45	0.034314	0	Unclassified	chr12:36650207-36676317	24.111
Rnf146	0	0	0	514	8.566667	6.35531	30.76419	Unclassified	chr10:29063981-29084248	18.268
Rab44	0	0	0	34	0.566667	0.08742	0	Unclassified	chr17:29270000-29285921	13.922
Bcor11	0	0	0	251	4.183333	0.832741	4.388422	Unclassified	chrX:45692534-45759905	65.372
Tspan2	0	0	0	305	5.083333	2.12322	6.187681	Unclassified	chr3:102536692-102576215	37.524
Degs1	0	0	0	488	8.133333	9.84636	10.21006	Unclassified	chr1:184205900-184214890	6.991
A2m	0	0	0	26	0.433333	0.016463	0.627238	Unclassified	chr6:121584190-121629256	43.067
Gm884	0	0	0	52	0.866667	0.026584	0	Unclassified	chr11:103395890-103478053	80.164
Fpr-rs6	0	0	0	0	0	0	0	Unclassified	chr17:20319041-20322061	1.021
Zdhhc11	0	0	0	66	1.1	0	2.647472	Unclassified	chr13:74099309-74130288	28.98
4933421107Rik	0	0	0	7	0.116667	0.028004	3	Unclassified	chr7:49700831-49705450	2.62
2700094K13Rik	0	0	0	403	6.716667	95.6102	11.64962	Unclassified	chr2:84509377-84512865	1.489
Strn	0	0	0	662	11.03333	4.23884	78.11667	Stalled	chr17:79053303-79137900	82.598
Ctgf	0	0	0	5	0.083333	0.213428	2.074645	Unclassified	chr10:24313247-24318488	3.242
Upp2	0	0	0	25	0.416667	0.023632	0.589638	Unclassified	chr2:58605595-58643079	35.485
Gm4297	0	0	0	0	0	0	0	Unclassified	chrX:24129375-24154021	22.647
Smc2	0	0	0	727	12.11667	11.3606	18.37782	Unclassified	chr4:52450120-52501131	49.012
Elov11	0	0	0	769	12.81667	26.4422	3.452735	Unclassified	chr4:118098697-118105521	4.825
Adi1	0	0	0	169	2.816667	8.67983	11.94512	Stalled	chr12:29358071-29367039	6.969
Elov12	0	0	0	53	0.883333	0.036742	2.775927	Unclassified	chr13:41277750-41317772	38.023
AI316807	0	0	0	361	6.016667	3.32628	46.92302	Stalled	chr8:23573086-23589351	14.266
4930443G12Rik	0	0	0	31	0.516667	0.016666	2.297454	Unclassified	chr3:108881416-108919500	36.085
Rhbd13	0	0	0	154	2.566667	0.28694	3.982954	Unclassified	chr11:80112413-80169488	55.076
Atxn7	0	0	0	939	15.65	3.9153	17.5866	Unclassified	chr14:14843004-14939815	94.812
Efr3a	0	0	0	473	7.883333	5.83666	35.44403	Stalled	chr15:65616602-65705374	86.773
A21d1	0	0	0	394	6.566667	7.32327	12.26809	Unclassified	chr14:123290081-123314387	22.307
Haus5	0	0	0	465	7.75	11.0609	4.875246	Unclassified	chr7:31438727-31452013	11.287
Lingo3	0	0	0	51	0.85	0.06341	0.536559	Unclassified	chr10:80295548-80308784	11.237
Mex3d	0	0	0	175	2.916667	4.97545	10.22224	Stalled	chr10:79843099-79852396	7.298
Prmt10	0	0	0	319	5.316667	5.29866	24.30804	Stalled	chr8:80071295-80105237	31.943
Nr1i2	0	0	0	87	1.45	0.079969	0.345893	Unclassified	chr16:38248434-38296910	46.477
Olf1362	0	0	0	4	0.066667	0	2	Unclassified	chr13:21702909-21705836	0.928
Olf1507	0	0	0	1	0.016667	0.016249	0	Unclassified	chr7:115763327-115766278	0.952
Sic11a2	0	0	0	367	6.116667	3.46072	11.30357	Unclassified	chr15:100218330-100255486	35.157
Nrap	0	0	0	105	1.75	0.123874	0.81173	Unclassified	chr19:56394531-56466525	69.995
Nras	0	0	0	419	6.983333	9.19691	14.26974	Unclassified	chr3:102860207-102871837	9.631
Olf1497	0	0	0	1	0.016667	0	1	Unclassified	chr7:115564086-115567031	0.946
Olf1494	0	0	0	0	0	0	0	Unclassified	chr7:115509005-115511950	0.946
Olf1491	0	0	0	0	0	0	0	Unclassified	chr7:115458409-115461342	0.934
Olf1483	0	0	0	1	0.016667	0.0163	1	Unclassified	chr7:115244824-115247772	0.949
Lrfn5	0	0	0	91	1.516667	0.006879	0	Unclassified	chr12:62623618-62946245	320.628
Olf1497	0	0	0	3	0.05	0	1	Unclassified	chr19:13869154-13872099	0.946
Olf1502	0	0	0	0	0	0	0	Unclassified	chr7:115666517-115669462	0.946
Osta	0	0	0	48	0.8	0.041504	0.19725	Unclassified	chr16:32475663-32489965	12.303
Zic4	0	0	0	30	0.5	0.078378	1.253482	Unclassified	chr9:91261809-91284186	20.378
ApoF	0	0	0	34	0.566667	0.48886	0.082114	Unclassified	chr10:127703052-127707207	2.156
Rltpr	0	0	0	423	7.05	36.467	0.728724	Unclassified	chr8:108212805-108222065	7.261
Cyp3a13	0	0	0	21	0.35	0.017228	0	Unclassified	chr5:138334160-138364847	28.688
Olf1345	0	0	0	0	0	0.043894	0	Unclassified	chr2:36493560-36496496	0.937
Cyp3a11	0	0	0	8	0.133333	0.031568	0.801646	Unclassified	chr5:146666182-146693430	25.249
Dkk2	0	0	0	63	1.05	0.083066	2.473805	Unclassified	chr3:131746255-131843266	95.012
Arnt	0	0	0	648	10.8	9.10756	18.67499	Unclassified	chr3:95236311-95301161	62.851
Cyp2b23	0	0	0	17	0.283333	0.023495	1.772109	Unclassified	chr7:27450245-27473449	21.205
Nlrp4a	0	0	0	24	0.4	0.017925	0.631097	Unclassified	chr7:27218131-27260477	40.347
Rd19	0	0	0	5	0.083333	0.016954	0	Unclassified	chr10:127284983-127298232	11.25
BC089597	0	0	0	15	0.25	0.050657	0.430948	Unclassified	chr10:127301531-127314375	10.845
Gis2	0	0	0	161	2.683333	0.569114	3.849967	Unclassified	chr10:127629690-127647059	15.37
5830433M19Rik	0	0	0	459	7.65	4.61174	44.73775	Stalled	chr4:94166769-94225487	56.719
Chd8	0	0	0	550	9.166667	11.1122	1.471279	Elongating	chr14:52817825-52859247	39.423
Myst1	0	0	0	398	6.633333	9.66321	10.65226	Unclassified	chr7:135054030-135069276	13.247
Loh12cr1	0	0	0	483	8.05	5.74033	26.90192	Stalled	chr6:134588957-134661201	70.245

Rtp4	0	0	0	126	2.1	5.97896	2.222656	Elongating	chr16:23608004-23614306	4.303
Vwa5a	0	0	0	69	1.15	1.90464	2.672213	Unclassified	chr9:38523852-38550922	25.071
Efcab3	0	0	0	27	0.45	0.029395	1.027895	Unclassified	chr11:104951532-104978851	25.32
Tmem8c	0	0	0	24	0.4	0.042368	0.624079	Unclassified	chr2:26917157-26929681	10.525
Wbscr22	0	0	0	466	7.766667	16.3027	10.88257	Unclassified	chr5:135528826-135541980	11.155
Fam71d	0	0	0	69	1.15	0.044118	1.199743	Unclassified	chr12:79790521-79835505	42.985
Olfr1054	0	0	0	1	0.016667	0	1	Unclassified	chr2:86172572-86175511	0.94
Olfr1107	0	0	0	0	0	0	0	Unclassified	chr2:86911350-86914289	0.94
2410004B18Rik	0	0	0	337	5.616667	18.8787	8.915768	Unclassified	chr3:145598995-145607239	6.245
Olfr1161	0	0	0	0	0	0	0	Unclassified	chr2:87862880-87865846	0.967
Fndc3a	0	0	0	2629	43.81667	7.92798	19.4758	Unclassified	chr14:72937759-73111810	172.052
Pcp411	0	0	0	55	0.916667	0.447328	0.929752	Unclassified	chr1:173103394-173128399	23.006
Olfr1055	0	0	0	0	0	0.027298	0	Unclassified	chr2:86186982-86189921	0.94
Cyp4a14	0	0	0	11	0.183333	0.030821	0.472101	Unclassified	chr4:115158804-115170746	9.943
Olfr1196	0	0	0	1	0.016667	0.016319	1	Unclassified	chr2:88540539-88543484	0.946
Cyp4a12b	0	0	0	8	0.133333	0.013346	0	Unclassified	chr4:115082228-115111639	27.412
Olfr1162	0	0	0	1	0.016667	0	0	Unclassified	chr2:87889834-87892779	0.946
Slc26a1	0	0	0	110	1.833333	0	0.667286	Unclassified	chr5:109099565-109106668	5.104
Enkur	0	0	0	145	2.416667	2.07281	51.27452	Stalled	chr2:21102357-21128992	24.636
Dppa3	0	0	0	4	0.066667	0.038188	0.487092	Unclassified	chr6:122574441-122580289	3.849
Sohlh2	0	0	0	10	0.166667	0.016375	1.541744	Unclassified	chr3:54983965-55013879	27.915
Lypd6	0	0	0	49	0.816667	0.040291	0	Unclassified	chr2:49981889-50049084	65.196
Abca16	0	0	0	37	0.616667	0.035293	0	Unclassified	chr7:127563214-127688325	123.112
Mlana	0	0	0	24	0.4	1.00084	0.95689	Unclassified	chr19:29770430-29782796	10.367
Man1c1	0	0	0	397	6.616667	0.640069	5.218052	Unclassified	chr4:134117604-134262205	142.602
Ankrd42	0	0	0	119	1.983333	2.52866	55.31949	Stalled	chr7:99732692-99787652	52.961
Olfr1209	0	0	0	0	0	0.030299	0	Unclassified	chr2:88749617-88752548	0.932
C1m3	0	0	0	0	0	0.014287	0	Unclassified	chr11:114903444-114911609	6.166
Smcr71	0	0	0	700	11.66667	5.74096	10.68682	Unclassified	chr15:80062509-80083799	19.291
Olfr1199	0	0	0	0	0	0	0	Unclassified	chr2:88595897-88598830	0.934
Gmip	0	0	0	959	15.98333	23.9979	5.497424	Unclassified	chr8:72330585-72345769	13.185
Olfr138	0	0	0	0	0	0	0	Unclassified	chr17:38409717-38412656	0.94
Olfr1215	0	0	0	0	0	0	0	Unclassified	chr2:88841506-88844447	0.942
Tmem119	0	0	0	19	0.316667	0.172694	0.859873	Unclassified	chr5:114243737-114252361	6.625
Krtap4-16	0	0	0	1	0.016667	0.04043	0	Unclassified	chr11:99711968-99714919	0.952
Krtap9-5	0	0	0	2	0.033333	0	1	Unclassified	chr11:99807788-99810865	1.078
Ssh1	0	0	0	460	7.666667	3.5288	6.453778	Unclassified	chr5:114392227-114445766	51.54
Rap1gds1	0	0	0	1785	29.75	11.7392	31.11995	Unclassified	chr3:138588669-138740163	149.295
Pla2g4f	0	0	0	51	0.85	0.028792	1.641875	Unclassified	chr2:120125701-120141901	14.201
Miox	0	0	0	10	0.166667	0	0.407643	Unclassified	chr15:89162903-89167438	2.536
Tdrd7	0	0	0	141	2.35	1.51116	0	Unclassified	chr4:45998333-46047631	47.299
Rhox4e	0	0	0	0	0	0	0	Unclassified	chrX:34969918-34976789	4.872
Gm9	0	0	0	3	0.05	0	2	Unclassified	chrX:34748496-34753036	2.541
Gpr153	0	0	0	70	1.166667	0.362984	2.101269	Unclassified	chr4:151646470-151659446	10.977
1700021K19Rik	0	0	0	587	9.783333	19.6248	15.11532	Unclassified	chr16:32821821-32870425	46.605
Olfr698	0	0	0	3	0.05	0.041078	3	Unclassified	chr7:113895964-113898900	0.937
Olfr710	0	0	0	4	0.066667	0	0	Unclassified	chr7:114087580-114093826	4.247
Olfr700	0	0	0	2	0.033333	0	2	Unclassified	chr7:113949023-113951974	0.952
Ccdc61	0	0	0	226	3.766667	7.47105	15.99681	Stalled	chr7:19476232-19497753	19.522
Olfr695	0	0	0	2	0.033333	0	2	Unclassified	chr7:113857245-113860193	0.949
Olfr702	0	0	0	4	0.066667	0	3	Unclassified	chr7:113967081-113970038	0.958
Gm1322	0	0	0	4	0.066667	0	0	Unclassified	chr2:67009890-67024269	12.38
Ubxn7	0	0	0	637	10.61667	2.23607	26.33146	Unclassified	chr16:32303337-32393832	61.496
AY761184	0	0	0	1	0.016667	0.018058	1	Unclassified	chr8:22812995-22816119	1.125
Slc35b1	0	0	0	448	7.466667	39.6927	3.725248	Unclassified	chr11:95244235-95252966	6.732
Ntf3	0	0	0	56	0.933333	0.028385	0.543661	Unclassified	chr6:126051430-126118762	65.333
Zfp692	0	0	0	144	2.4	9.12508	6.16262	Unclassified	chr11:58118570-58128115	7.546
Rab19	0	0	0	153	2.55	4.48178	6.863495	Unclassified	chr6:39329426-39340378	8.953
Rab33a	0	0	0	29	0.483333	1.14596	9.901455	Unclassified	chrX:45870646-45883409	10.764
Ush2a	0	0	0	484	8.066667	0.027425	2.975731	Unclassified	chr1:190084716-190788918	702.203
Kcnt2	0	0	0	134	2.233333	0.02915	2.204463	Unclassified	chr1:142140833-142506838	364.006
Fip111	0	0	0	808	13.46667	25.1494	26.2236	Unclassified	chr5:74929506-74993149	61.644
Scgb1a1	0	0	0	3	0.05	0.054771	0.768304	Unclassified	chr19:9158131-9164446	4.316
Utf1	0	0	0	12	0.2	0.905982	1.845787	Unclassified	chr7:147127754-147131011	1.258
Usp9x	0	0	0	888	14.8	4.45927	29.03454	Unclassified	chrX:12646623-12750453	101.831
Kdm6a	0	0	0	747	12.45	4.56836	57.00318	Stalled	chrX:17737792-17856484	116.693
Utrn	0	0	0	1119	18.65	1.32674	2.110072	Unclassified	chr10:12101985-12583533	479.549
Esd	0	0	0	285	4.75	9.96209	13.06878	Unclassified	chr14:75130151-75150250	18.1
Acot10	0	0	0	2	0.033333	2.96997	0	Unclassified	chr15:20594968-20598505	1.538
Klk12	0	0	0	7	0.116667	0	1.374644	Unclassified	chr7:51022469-51028851	4.383
Fam26f	0	0	0	66	1.1	10.3819	28.02887	Unclassified	chr10:33845874-33849778	1.905
Psma7	0	0	0	647	10.78333	126.521	6.155652	Unclassified	chr2:179771080-179779107	6.028
Poli	0	0	0	469	7.816667	5.11356	54.2308	Stalled	chr18:70668334-70691792	21.459
Psma4	0	0	0	428	7.133333	51.5565	9.769933	Unclassified	chr9:54796665-54805837	7.173
Batf3	0	0	0	412	6.866667	8.17171	3.350772	Unclassified	chr1:192920292-192932822	10.531
Ab12	0	0	0	1151	19.18333	3.06101	15.45219	Unclassified	chr1:158486917-158579750	90.834
Creb3l2	0	0	0	557	9.283333	8.24824	20.91333	Stalled	chr6:37281020-37394148	111.129
Oplah	0	0	0	41	0.683333	0.177466	0.211287	Unclassified	chr15:76127032-76139675	10.644
Pfn3	0	0	0	2	0.033333	0.293288	2	Unclassified	chr13:55516048-55518593	0.546
Iqcf5	0	0	0	2	0.033333	0	0	Unclassified	chr9:106414903-106418334	1.432
1700009N14Rik	0	0	0	1	0.016667	0.049841	0	Unclassified	chr4:39395325-39398811	1.487
Olfr734	0	0	0	3	0.05	0.040816	2	Unclassified	chr14:50939566-50942508	0.943
Lrrc4c	0	0	0	66	1.1	0.044258	0	Unclassified	chr2:97305830-97471821	163.992
Zscan12	0	0	0	165	2.75	0.851642	23.31589	Stalled	chr13:21452688-21464171	9.484
Prss44	0	0	0	6	0.1	0.027922	2.401598	Unclassified	chr9:110714497-110720501	4.005
Slc25a31	0	0	0	7	0.116667	0.024296	0.730034	Unclassified	chr3:40510792-40530016	17.225

Ccdc30	0	0	0	143	2.383333	1.6019	3.698302	Unclassified	chr4:118996443-119090126	91.684
Cyb5r4	0	0	0	351	5.85	6.68134	27.29684	Stalled	chr9:86914863-86972609	55.747
Trmprs7	0	0	0	22	0.366667	0.044622	0	Unclassified	chr16:45656429-45687489	29.061
Abpa	0	0	0	0	0	0	0	Unclassified	chr7:34804585-34807900	1.316
Zfp93	0	0	0	21	0.35	0.347554	7.213766	Unclassified	chr7:25053436-25062813	7.378
Zfp92	0	0	0	11	0.183333	0.044586	0.598168	Unclassified	chrX:70654441-70672326	15.886
Zkscan5	0	0	0	274	4.566667	4.20215	16.1627	Unclassified	chr5:145963427-145982612	17.186
Phldb2	0	0	0	82	1.366667	0.060664	1.673534	Unclassified	chr16:45746345-45846491	98.147
2310038E17Rik	0	0	0	9	0.15	0.014875	1.677249	Unclassified	chr8:107469255-107479862	8.608
Olfir32	0	0	0	1	0.016667	0.00974	0	Unclassified	chr2:89978367-89981294	0.928
Fzd3	0	0	0	65	1.083333	0.068397	3.895762	Unclassified	chr14:65811277-65883300	70.024
Taf1	0	0	0	422	7.033333	7.56144	19.72606	Stalled	chrX:98726073-98797128	69.056
Sval3	0	0	0	6	0.1	0	0	Unclassified	chr6:41916138-41923089	4.952
Spin4	0	0	0	4	0.066667	1.28584	1.227352	Unclassified	chrX:92217845-92224021	4.177
Igsf21	0	0	0	277	4.616667	0.038975	0.443245	Unclassified	chr4:139582766-139804699	219.934
AI464131	0	0	0	28	0.466667	0.359336	1.467251	Unclassified	chr4:41442636-41452109	7.474
Eif3j	0	0	0	795	13.25	12.3439	23.51756	Unclassified	chr2:121852358-121879365	25.008
Eif4g3	0	0	0	4350	72.5	23.2032	11.44894	Unclassified	chr4:137547384-137762386	213.003
Kcnrg	0	0	0	16	0.266667	0	2.612795	Unclassified	chr14:62224293-62231670	5.378
Pkhd1	0	0	0	231	3.85	0.033706	0.709494	Unclassified	chr1:20047859-20610138	560.28
Tmem90a	0	0	0	38	0.633333	0.156416	0.753003	Unclassified	chr12:86018227-86041757	21.531
Wdr54	0	0	0	27	0.45	5.33339	4.003749	Unclassified	chr6:83102704-83108373	3.67
Pigk	0	0	0	629	10.48333	4.38802	17.82574	Unclassified	chr3:152375063-152451975	74.913
Adamts10	0	0	0	367	6.116667	7.63144	9.376305	Unclassified	chr17:33659168-33690421	29.254
Reep5	0	0	0	674	11.23333	18.3302	7.176543	Unclassified	chr18:34504539-34535069	28.531
Aars2	0	0	0	286	4.766667	10.0331	10.22851	Unclassified	chr17:45641789-45657792	14.004
Hmox1	0	0	0	226	3.766667	10.6337	7.788797	Unclassified	chr8:77615516-77624491	6.976
Lrrc2	0	0	0	41	0.683333	0.08065	0.440724	Unclassified	chr9:110852048-110886568	32.521
Dpep1	0	0	0	28	0.466667	0.068537	0	Unclassified	chr8:125708134-125725713	15.58
Rtp3	0	0	0	4	0.066667	0.01828	0	Unclassified	chr9:110887448-110894217	4.77
Als2cl	0	0	0	64	1.066667	0.183551	3.02638	Unclassified	chr9:110780677-110803033	20.357
Clasp2	0	0	0	1190	19.83333	4.32224	40.85189	Unclassified	chr9:113648590-113828815	178.226
Prss50	0	0	0	9	0.15	0.140936	0	Unclassified	chr9:110758470-110767132	6.663
Nt5dc2	0	0	0	44	0.733333	9.21213	1.080079	Unclassified	chr14:31946038-31952310	4.273
Lonrf1	0	0	0	582	9.7	2.7527	6.754525	Unclassified	chr8:37279117-37314570	33.454
Mcm10	0	0	0	863	14.38333	10.0965	4.490927	Unclassified	chr2:4911770-4935837	22.068
Tspo2	0	0	0	8	0.133333	0.287853	0.340804	Unclassified	chr17:48587759-48592826	3.068
A730069N07Rik	0	0	0	14	0.233333	0.051398	1.913656	Unclassified	chr8:37998637-38017490	16.854
Cyp2c50	0	0	0	8	0.133333	0.025329	0	Unclassified	chr19:40162168-40188445	24.278
Plekha1	0	0	0	163	2.716667	1.8672	16.43947	Stalled	chr7:138007423-138056816	47.394
Alpp12	0	0	0	4	0.066667	0.018205	0.528191	Unclassified	chr1:88983265-88988503	3.239
Alas2	0	0	0	117	1.95	0.161904	0.661873	Unclassified	chrX:146979959-147005165	23.207
Mtap6	0	0	0	153	2.55	0.691899	0.959868	Unclassified	chr7:106413956-106485647	69.692
Sox3	0	0	0	5	0.083333	0.124129	0.347684	Unclassified	chrX:58144540-58148605	2.066
Mtcp1	0	0	0	326	5.433333	10.2281	63.69726	Stalled	chrX:72650185-72663882	11.698
Kpna4	0	0	0	1085	18.08333	14.2487	33.14656	Unclassified	chr3:68876142-68933014	54.873
Mthfd2	0	0	0	661	11.01667	34.358	11.28991	Unclassified	chr6:83255697-83269598	11.902
Sox5	0	0	0	377	6.283333	0.405061	0	Unclassified	chr6:143781348-144160078	376.731
Sox6	0	0	0	417	6.95	0.048493	0.577724	Unclassified	chr7:122614857-123184258	567.402
Spr3	0	0	0	1	0.016667	0	1	Unclassified	chr3:92260740-92263457	0.718
E230025N22Rik	0	0	0	85	1.416667	0.038144	0.439717	Unclassified	chr18:36844576-36857579	11.004
Ogfod1	0	0	0	287	4.783333	4.12584	42.20821	Stalled	chr8:96559097-96591822	30.726
Folr2	0	0	0	40	0.666667	0.170034	0.949539	Unclassified	chr7:108988501-109007708	17.208
Glyat	0	0	0	17	0.283333	0.02935	0.53748	Unclassified	chr19:12705797-12726227	18.431
Mmp1b	0	0	0	10	0.166667	0	0	Unclassified	chr9:7367669-7390026	20.358
Prss46	0	0	0	18	0.3	0.040784	0.440403	Unclassified	chr9:110745009-110759026	12.018
CN716893	0	0	0	1	0.016667	0.007988	0	Unclassified	chrX:83495594-83503558	5.965
Spr2h	0	0	0	0	0	0	0	Unclassified	chr3:92187606-92191241	1.636
Mmp1a	0	0	0	6	0.1	0.018997	1.491418	Unclassified	chr9:7462140-7476869	12.73
Gm2382	0	0	0	93	1.55	8.4151	5.479208	Unclassified	chr9:88583442-88616636	31.195
Gprc6a	0	0	0	13	0.216667	0.044875	0	Unclassified	chr10:51334628-51353264	16.637
Arsj	0	0	0	53	0.883333	0.055572	1.193829	Unclassified	chr3:126064769-126143292	76.524
D8Erd738e	0	0	0	268	4.466667	118.881	9.123125	Unclassified	chr8:86770133-86775660	3.528
Klrc2	0	0	0	0	0	0.056483	0	Unclassified	chr6:129606363-129612614	4.252
Pramel7	0	0	0	2	0.033333	0.048234	1	Unclassified	chr2:87329244-87334575	3.332
St8sia2	0	0	0	81	1.35	0.088224	1.465769	Unclassified	chr7:81084005-81160568	74.564
St8sia3	0	0	0	18	0.3	0.020408	0	Unclassified	chr18:64412012-64435798	21.787
Kird1	0	0	0	5	0.083333	0	0.510164	Unclassified	chr6:129541505-129548670	5.166
St3gal5	0	0	0	308	5.133333	4.00138	10.39923	Stalled	chr6:72045606-72104564	56.959
Ttll4	0	0	0	345	5.75	3.83273	10.75372	Unclassified	chr1:74706327-74744547	36.221
Rnf24	0	0	0	545	9.083333	2.03986	17.55167	Unclassified	chr2:131124223-131180561	54.339
Stx3	0	0	0	127	2.116667	1.55302	1.333656	Unclassified	chr19:11849607-11895893	44.287
Dusp16	0	0	0	600	10	2.32838	10.8766	Unclassified	chr6:134665490-134744646	77.157
Fam175a	0	0	0	633	10.55	4.50865	14.56308	Unclassified	chr5:101233820-101251954	16.135
Utp20	0	0	0	1250	20.83333	5.88334	9.662742	Unclassified	chr10:88209352-88291559	80.208
Dnajc21	0	0	0	285	4.75	12.452	13.99317	Unclassified	chr15:10376517-10402271	23.755
Acbd7	0	0	0	23	0.383333	0.119779	7.827353	Unclassified	chr2:3251439-3258269	4.831
Phf23	0	0	0	494	8.233333	27.4627	1.814882	Elongating	chr11:69807272-69813513	4.242
Cst11	0	0	0	3	0.05	0.190341	0.484669	Unclassified	chr2:148594353-148599233	2.881
Spink12	0	0	0	1	0.016667	0.129458	0	Unclassified	chr18:44262176-44268197	4.022
Armcx1	0	0	0	8	0.133333	0.518693	2.48912	Unclassified	chrX:131250476-131256449	3.974
Gm14725	0	0	0	1	0.016667	0.007721	1	Unclassified	chrX:67796732-67799560	0.829
D15Erd621e	0	0	0	770	12.83333	6.82878	14.05013	Unclassified	chr15:58245022-58289356	42.335
Magea10	0	0	0	0	0	0	0	Unclassified	chrX:69627208-69634197	4.99
Calb1	0	0	0	19	0.316667	0.008941	0.589838	Unclassified	chr4:15806410-15833856	25.447
BC037034	0	0	0	489	8.15	15.3805	6.098164	Unclassified	chr5:138700885-138707280	4.396

Cyp3a57	0	0	0	30	0.5	0	0	Unclassified	chr5:146104138-146151381	45.244
Otog	0	0	0	136	2.266667	0.035732	0	Unclassified	chr7:53494356-53566804	70.449
Prr16	0	0	0	72	1.2	0.011526	3.68915	Unclassified	chr18:51275551-51464295	186.745
Otc	0	0	0	13	0.216667	0.011317	0	Unclassified	chrX:9827484-9898150	68.667
Arid5b	0	0	0	3916	65.266667	4.26065	3.246585	Unclassified	chr10:67558340-67743474	183.135
Osmr	0	0	0	53	0.883333	0.045063	1.648127	Unclassified	chr15:6763576-6826313	60.738
S100g	0	0	0	8	0.133333	0	0.21146	Unclassified	chrX:159399923-159404531	2.609
Sqstm1	0	0	0	825	13.75	75.9774	6.034587	Unclassified	chr11:50013653-50026292	10.64
Arhgef4	0	0	0	473	7.883333	1.98324	1.578818	Elongating	chr1:34856566-34869599	11.034
Lhfp1	0	0	0	13	0.216667	0.061366	1.679006	Unclassified	chrX:141724901-141785437	58.537
Crcp	0	0	0	763	12.71667	16.8496	16.06433	Unclassified	chr5:130503175-130536653	31.479
Lrrc8b	0	0	0	345	5.75	1.10512	28.44369	Stalled	chr5:105842793-105915208	70.416
Trim12	0	0	0	200	3.333333	12.2907	4.467448	Unclassified	chr7:111448410-111466009	15.6
Clip3	0	0	0	48	0.8	0.434978	1.654939	Unclassified	chr7:31074771-31093386	16.616
Ttc26	0	0	0	102	1.7	0.322593	22.30116	Stalled	chr6:38329523-38377647	46.125
V1ra3	0	0	0	0	0	0.016966	0	Unclassified	chr6:89985926-89988835	0.91
Ybx2	0	0	0	20	0.333333	0.581432	4.071957	Unclassified	chr11:69747400-69755101	5.702
Syt5	0	0	0	12	0.2	0.095207	0.367249	Unclassified	chr7:4491366-4500169	6.804
Tmem150c	0	0	0	114	1.9	1.11779	0.428381	Unclassified	chr5:100506891-100590827	81.937
V1ra7	0	0	0	1	0.016667	0.034403	0	Unclassified	chr6:90126709-90129639	0.931
V1ra6	0	0	0	1	0.016667	0.030009	1	Unclassified	chr6:89794589-89797531	0.943
Pgm21l	0	0	0	309	5.15	2.06044	77.04881	Stalled	chr7:107374116-107427382	51.267
Arhgap19	0	0	0	354	5.9	10.2443	14.84897	Unclassified	chr19:41841077-41878574	35.498
38971	0	0	0	17	0.283333	0.070309	1.680711	Unclassified	chr16:4988177-4999872	9.696
4933412E24Rik	0	0	0	1	0.016667	0.029244	0	Unclassified	chr15:59846420-59850173	1.754
5730528L13Rik	0	0	0	28	0.466667	0.291156	1.399111	Unclassified	chr4:48550817-48574791	21.975
Dmx12	0	0	0	79	1.316667	0.161804	3.233637	Unclassified	chr9:54212964-54351433	136.47
Krtap16-8	0	0	0	1	0.016667	0	1	Unclassified	chr16:89047533-89050144	0.612
Mpz1l	0	0	0	251	4.183333	2.57043	26.6529	Stalled	chr1:167522311-167566672	42.362
Ina	0	0	0	22	0.366667	0.288184	1.754564	Unclassified	chr19:47087187-47098836	9.65
Taf5	0	0	0	581	9.683333	3.71229	23.76387	Unclassified	chr19:47140237-47157969	15.733
Col12a1	0	0	0	71	1.183333	0.027482	0.629019	Unclassified	chr9:79446797-79568485	119.689
5330417C22Rik	0	0	0	157	2.616667	0.215789	2.79804	Unclassified	chr3:108260986-108341440	78.455
E230019M04Rik	0	0	0	19	0.316667	0.05096	0.704531	Unclassified	chrX:136595417-136641336	43.92
Ifit2	0	0	0	229	3.816667	3.3292	14.14285	Stalled	chr19:34623183-34651024	25.842
Serpina7	0	0	0	2	0.033333	0	0	Unclassified	chrX:135613795-135621775	5.981
Hsd17b4	0	0	0	231	3.85	8.49634	16.66664	Stalled	chr18:50285992-50355920	67.929
Tceal5	0	0	0	0	0	0.033012	0	Unclassified	chrX:132735489-132740390	2.902
Ifi204	0	0	0	10	0.166667	2.74492	1.453701	Unclassified	chr1:175677424-175699050	19.627
Hspa1l	0	0	0	91	1.516667	0.762	0.742789	Unclassified	chr17:35107647-35116173	6.527
Ifi47	0	0	0	440	7.333333	0	2.642008	Elongating	chr11:48898556-48910473	9.918
Gas2l2	0	0	0	34	0.566667	0.137493	0.537957	Unclassified	chr11:83235403-83244957	7.555
Hsd17b2	0	0	0	58	0.966667	0.320408	2.094971	Unclassified	chr8:120223845-120282929	57.085
Hsd17b1	0	0	0	13	0.216667	0.184898	1.070313	Unclassified	chr11:100937724-100941819	2.096
Hs3st2	0	0	0	141	2.35	0.050814	2.752286	Unclassified	chr7:128533809-128645282	109.474
Olfr312	0	0	0	1	0.016667	0.022323	1	Unclassified	chr11:58642657-58645584	0.928
Olfr316	0	0	0	0	0	0.146887	0	Unclassified	chr11:58569168-58572089	0.922
Epn3	0	0	0	39	0.65	0.640408	1.254916	Unclassified	chr11:94352304-94363237	8.934
Krt33a	0	0	0	3	0.05	0.02447	0.667498	Unclassified	chr11:99872512-99879526	5.015
Isoc1	0	0	0	295	4.916667	9.59416	17.27928	Unclassified	chr18:58817135-58839224	20.09
Gnao1	0	0	0	274	4.566667	0.135074	0.368498	Unclassified	chr8:96332737-96493288	158.552
Dnajc10	0	0	0	513	8.55	9.20758	42.34055	Unclassified	chr2:80153622-80194212	38.591
2810021B07Rik	0	0	0	361	0.616667	4.63736	21.83612	Stalled	chr13:17785246-17790939	3.694
Tmem128	0	0	0	395	6.583333	15.3409	8.026861	Unclassified	chr5:38649613-38660857	9.245
Chit1	0	0	0	40	0.666667	0.044943	1.015493	Unclassified	chr1:136005818-136048013	40.196
Gnb1	0	0	0	1400	23.33333	39.6224	10.2044	Unclassified	chr4:154863469-154933377	67.909
2310002L09Rik	0	0	0	8	0.133333	0	0	Unclassified	chr4:73585274-73598750	11.477
Snrnp40	0	0	0	910	15.16667	46.4872	16.80001	Unclassified	chr4:130035378-130067278	29.901
Pcdh9	0	0	0	321	5.35	0.030156	0	Unclassified	chr14:93412919-94289951	875.033
Iqcf3	0	0	0	13	0.216667	0.045691	0.632866	Unclassified	chr9:106445719-106465956	18.238
Zdhhc21	0	0	0	582	9.7	2.08841	29.26389	Unclassified	chr4:82444642-82507565	60.924
Pex19	0	0	0	214	3.566667	9.3887	7.327965	Unclassified	chr1:174054885-174066628	9.744
Nav1	0	0	0	239	3.983333	0.10718	1.569262	Unclassified	chr1:137331156-137483932	150.777
Ccdc127	0	0	0	421	7.016667	4.8596	42.76685	Stalled	chr13:74485764-74497115	9.352
Dhdpsi	0	0	0	45	0.75	0.12542	1.909177	Unclassified	chr19:42118340-42145429	25.09
4921536K21Rik	0	0	0	29	0.483333	0.544185	9.523691	Unclassified	chr11:3786090-3797129	9.04
Ssr3	0	0	0	626	10.43333	44.793	6.738835	Unclassified	chr3:65183578-65198475	12.898
Akr1c21	0	0	0	5	0.083333	0	0	Unclassified	chr13:4571320-4585789	12.47
Ankrd33b	0	0	0	2933	48.88333	8.894	4.53475	Unclassified	chr15:31221236-31299514	76.279
Chd3	0	0	0	803	13.38333	18.4209	2.013375	Elongating	chr11:69156774-69184928	26.155
Rnf2	0	0	0	384	6.4	5.62407	17.20136	Unclassified	chr1:153316535-153349953	31.419
Olfr1445	0	0	0	0	0	0.067811	0	Unclassified	chr19:12956372-12959317	0.946
Olfr1453	0	0	0	0	0	0	0	Unclassified	chr19:13101893-13104817	0.925
Olfr1448	0	0	0	3	0.05	0	2	Unclassified	chr19:12993852-12996797	0.946
Olfr1444	0	0	0	1	0.016667	0.053401	0	Unclassified	chr19:12934266-12937226	0.961
Olfr1469	0	0	0	2	0.033333	0	1	Unclassified	chr19:13483060-13485990	0.931
Olfr1477	0	0	0	1	0.016667	0.005812	0	Unclassified	chr19:13573035-13577782	2.748
Olfr1442	0	0	0	2	0.033333	0.072341	0	Unclassified	chr19:12746668-12749731	1.064
Olfr1443	0	0	0	6	0.1	0.03398	0.483524	Unclassified	chr19:12750655-12758335	5.681
Dcpp3	0	0	0	1	0.016667	0	1	Unclassified	chr17:24052424-24056408	1.985
Olfr1446	0	0	0	0	0	0	0	Unclassified	chr19:12964138-12967065	0.928
Zfp160	0	0	0	283	4.716667	1.65134	17.91801	Unclassified	chr17:21143904-21165820	19.917
Tmprss11b	0	0	0	11	0.183333	0.017351	0.612072	Unclassified	chr5:87088546-87107323	16.778
Sclo1a4	0	0	0	28	0.466667	0.016762	1.313377	Unclassified	chr6:141753960-141806692	50.733
Gcnt2	0	0	0	132	2.2	0.526289	1.759766	Unclassified	chr13:40953500-41056261	100.762
Opn1mw	0	0	0	18	0.3	0.042021	0.567331	Unclassified	chrX:71370804-71396094	23.291

Sico1a6	0	0	0	25	0.416667	0.009141	0	Unclassified	chr6:142034288-142136670	100.383
Kat2a	0	0	0	326	5.433333	16.2295	7.133749	Unclassified	chr11:100566061-100575766	7.706
Nr6a1	0	0	0	351	5.85	0.946844	14.68755	Stalled	chr2:38578894-38783981	203.088
Gcnt1	0	0	0	130	2.166667	0.492831	17.86225	Stalled	chr19:17400632-17433157	30.526
Gcm1	0	0	0	20	0.333333	0.056709	0.426992	Unclassified	chr9:77897764-77913431	13.668
Fastk	0	0	0	563	9.383333	25.3917	6.861698	Unclassified	chr5:23946857-23953053	4.197
38776	0	92.8038	0	1371	22.85	2.32975	0	Unclassified	chr8:68140423-68995535	853.113
Clps	0	0	0	4	0.066667	0.051888	0.333629	Unclassified	chr17:28695158-28699659	2.502
Myh3	0	0	0	47	0.783333	0.065537	0.343215	Unclassified	chr11:66889801-66915793	23.993
Myh2	0	0	0	18	0.3	0.032017	1.259095	Unclassified	chr11:66982528-67011018	26.491
Myh8	0	0	0	24	0.4	0.032536	0	Unclassified	chr11:67088625-67122135	31.511
Myh4	0	0	0	17	0.283333	0.03251	0.57241	Unclassified	chr11:67049530-67073948	22.419
Stxbp5l	0	0	0	137	2.283333	0.04635	1.35397	Unclassified	chr16:37107395-37387044	277.65
BC018465	0	0	0	42	0.7	0.070549	0.59675	Unclassified	chr2:154047477-154066636	17.16
Prpsap2	0	0	0	464	7.733333	4.37206	12.82936	Unclassified	chr11:61543151-61577590	32.44
BC06028	0	0	0	47	0.783333	0.28847	10.89643	Stalled	chr7:147995575-148010077	12.503
U46068	0	0	0	51	0.85	0	0.745541	Unclassified	chr2:154014553-154046079	29.527
BC053393	0	0	0	9	0.15	0.018829	0.70489	Unclassified	chr11:46383014-46402733	17.72
Slc25a13	0	0	0	906	15.1	3.87907	14.67978	Unclassified	chr6:5991217-6169118	175.902
Ap2s1	0	0	0	213	3.55	102.235	5.106707	Unclassified	chr7:17321792-17334639	10.848
Prssl1	0	0	0	25	0.416667	0.042414	1.594175	Unclassified	chr10:79244218-79253730	7.513
Stk31	0	0	0	25	0.416667	0.019791	0.760167	Unclassified	chr6:49343602-49419501	73.9
Parp16	0	0	0	117	1.95	1.81087	12.91375	Stalled	chr9:65060496-65087026	24.531
Slc22a23	0	0	0	338	5.633333	5.00212	0.330696	Unclassified	chr13:34271026-34439051	166.026
Kidins220	0	0	0	775	12.91667	8.28397	13.20659	Unclassified	chr12:25657796-25744562	84.767
Olfr91	0	0	0	4	0.066667	0.046628	3	Unclassified	chr17:37229880-37232817	0.938
Olfr891	0	0	0	0	0	0.053907	0	Unclassified	chr9:37987455-37990406	0.952
Olfr890	0	0	0	2	0.033333	0.029914	2	Unclassified	chr9:37948721-37951666	0.946
Olfr889	0	0	0	1	0.016667	0.030396	1	Unclassified	chr9:37921382-37924312	0.931
Olfr197	0	0	0	0	0	0	0	Unclassified	chr16:59185381-59188307	0.927
Olfr183	0	0	0	6	0.1	0	0.457348	Unclassified	chr16:58993229-59000442	5.214
Olfr203	0	0	0	1	0.016667	0.041772	0	Unclassified	chr16:59300980-59303899	0.92
Aldh7a1	0	0	0	424	7.066667	3.88575	32.05716	Stalled	chr18:56685389-56734593	47.205
Myl2	0	0	0	13	0.216667	0.161976	0.655553	Unclassified	chr5:122548988-122556863	5.876
H2-M10.3	0	0	0	3	0.05	0	0.546999	Unclassified	chr17:36501948-36507362	3.415
Olfr1234	0	0	0	0	0	0	0	Unclassified	chr2:89202639-89205584	0.946
Eif2ak2	0	0	0	1119	18.65	8.32082	6.572523	Unclassified	chr17:79251889-79283912	30.024
Prkx	0	0	0	225	3.75	4.14311	32.38895	Stalled	chrX:75007373-75043299	33.927
Prl	0	0	0	5	0.083333	0.115333	0.688571	Unclassified	chr13:27147438-27157070	7.633
Pnc1	0	0	0	190	3.166667	2.80657	0.179904	Unclassified	chr6:122267748-122289033	19.286
Ankrd1	0	0	0	11	0.183333	0.116182	1.487141	Unclassified	chr19:36186454-36196334	7.881
Mylpf	0	0	0	95	1.583333	2.30864	0.57176	Unclassified	chr7:134353121-134357801	2.681
Plk1s1	0	0	0	278	4.633333	3.48674	37.83776	Stalled	chr2:146679624-146795825	114.202
Nkx2-4	0	0	0	9	0.15	0.535504	0	Unclassified	chr2:146909611-146913081	1.471
Ctf2	0	0	0	22	0.366667	0.042721	0.783729	Unclassified	chr7:134862473-134871130	6.658
Siah1a	0	0	0	333	5.55	1.41346	22.51591	Unclassified	chr8:89247838-89271905	22.068
Cdh20	0	0	0	115	1.916667	0.117076	0.666336	Unclassified	chr1:106663395-106892058	226.664
Wdr35	0	0	0	169	2.816667	1.80847	30.58468	Stalled	chr12:8978806-9035652	54.847
Mih3	0	0	0	219	3.65	1.31149	22.73816	Stalled	chr12:86575469-86613514	36.046
Aspa	0	0	0	21	0.35	0.058484	0	Unclassified	chr11:73118489-73140136	19.648
Adamts15	0	0	0	27	0.45	0.045402	1.510124	Unclassified	chr9:30706739-30732037	23.299
Acvr2a	0	0	0	248	4.133333	1.17188	19.36403	Stalled	chr2:48667628-48758784	89.157
Nubpl	0	0	0	393	6.55	3.59221	48.98464	Stalled	chr12:53196732-53411946	213.215
Fam54b	0	0	0	207	3.45	8.70018	0.709702	Unclassified	chr4:134081477-134090667	7.191
Plekha5	0	0	0	819	13.65	2.33435	9.151075	Unclassified	chr6:140370619-140543427	170.809
Eif2ak4	0	0	0	930	15.5	6.06322	10.19468	Unclassified	chr2:118212352-118300969	86.618
Fam49a	0	0	0	448	7.466667	0.708712	18.62584	Stalled	chr12:12266944-12383165	114.222
Ppfia4	0	0	0	110	1.833333	0.354835	4.113979	Unclassified	chr1:136193360-136231505	36.146
Lrrn4cl	0	0	0	17	0.283333	0.116585	2.685097	Unclassified	chr19:8923274-8928399	3.126
Dok5	0	0	0	121	2.016667	0.144964	0	Unclassified	chr2:170555306-170705275	147.97
Klhdc8a	0	0	0	22	0.366667	0.423308	1.700831	Unclassified	chr1:134193202-134203934	8.733
Mupcdh	0	0	0	32	0.533333	0.255497	1.167648	Unclassified	chr7:148454983-148464685	7.703
Ttc24	0	0	0	13	0.216667	0.028468	0.417866	Unclassified	chr3:87873331-87884226	8.896
Prss45	0	0	0	19	0.316667	0.03092	0.251892	Unclassified	chr9:110735091-110743814	6.724
Kcng1	0	0	0	18	0.3	0.121744	0	Unclassified	chr2:168087197-168096831	7.635
Peli3	0	0	0	32	0.533333	0.172031	2.464334	Unclassified	chr19:4931854-4945092	11.239
Phactr1	0	0	0	402	6.7	0.09543	0	Unclassified	chr13:42773991-43233881	457.891
Limch1	0	0	0	308	5.133333	0.114767	2.538118	Unclassified	chr5:67135078-67448398	311.321
Usp4	0	0	0	938	15.63333	28.6467	19.03389	Unclassified	chr9:108248161-108294860	44.7
Kit	0	0	0	83	1.383333	0.096705	4.852701	Unclassified	chr5:75969011-76052746	81.736
Kl	0	0	0	44	0.733333	0.030085	1.485334	Unclassified	chr5:151753181-151796386	41.206
Klc2	0	0	0	172	2.866667	5.30875	7.485425	Unclassified	chr19:5107745-5120408	10.664
Taf7l	0	0	0	13	0.216667	0	0	Unclassified	chrX:130994654-131013029	16.376
Klf1	0	0	0	106	1.766667	5.40419	0.465307	Unclassified	chr8:87423826-87429194	3.369
Klf12	0	0	0	435	7.25	0.40235	3.160156	Unclassified	chr14:100269861-100551015	279.155
Lgi2	0	0	0	26	0.433333	0.033255	0.523065	Unclassified	chr5:52929102-52959519	28.418
Pramel4	0	0	0	1	0.016667	0.028379	1	Unclassified	chr4:143647028-143659221	10.194
Nrn1l	0	0	0	118	1.966667	0.380683	2.886313	Unclassified	chr8:108415469-108418915	1.447
Cidea	0	0	0	23	0.383333	0.671646	1.050461	Unclassified	chr18:67501217-67527448	24.232
Cideb	0	0	0	169	2.816667	0.112934	0.955934	Unclassified	chr14:56372891-56379261	4.371
Tmem38b	0	0	0	135	2.25	6.85525	9.836423	Unclassified	chr4:53836933-53873461	34.529
Fabp9	0	0	0	3	0.05	0.043817	0	Unclassified	chr3:10193623-10199222	3.6
Tle1	0	0	0	368	6.133333	3.70547	33.40721	Stalled	chr4:71778175-71863953	83.779
Fam57a	0	0	0	113	1.883333	3.91342	4.547838	Unclassified	chr11:76013557-76021759	6.203
Olfr1233	0	0	0	2	0.033333	0.041883	1	Unclassified	chr2:89179539-89182457	0.919
Mrgprb5	0	0	0	2	0.033333	0	0	Unclassified	chr7:55423386-55426355	0.97

Mrgprb3	0	0	0	1	0.016667	0.081894	0	Unclassified	chr7:55898232-55901171	0.94
Slc12a5	0	0	0	205	3.416667	0.247779	0.134997	Unclassified	chr2:164791487-164825231	31.745
Gprc5d	0	0	0	16	0.266667	0.038926	0	Unclassified	chr6:135056008-135070301	12.294
Edn3	0	0	0	30	0.5	0.112462	0	Unclassified	chr2:174584273-174609543	23.271
Olf414	0	0	0	2	0.033333	0.053681	1	Unclassified	chr1:176358560-176361515	0.956
Chrn3	0	0	0	28	0.466667	0.042317	0.526482	Unclassified	chr8:28477182-28510201	31.02
Mic1	0	0	0	26	0.433333	0.027515	0.485125	Unclassified	chr15:88786313-88810983	22.671
Rnaseh1	0	0	0	466	7.766667	16.8403	17.3993	Unclassified	chr12:29332466-29344454	9.989
Pth2r	0	0	0	43	0.716667	0.047783	1.316175	Unclassified	chr1:65355830-65435818	77.989
Lrch2	0	0	0	18	0.3	0.017722	0	Unclassified	chrX:143906236-143990624	82.389
Irs4	0	0	0	10	0.166667	0.061538	0	Unclassified	chrX:138145540-138161760	14.221
Irx1	0	0	0	11	0.183333	0.087017	0.42819	Unclassified	chr13:72095679-72103171	5.493
Irx2	0	0	0	8	0.133333	0.070242	1.372749	Unclassified	chr13:72764425-72771642	5.218
Dnajb14	0	0	0	430	7.166667	2.03546	87.01588	Stalled	chr3:137528638-137571895	41.258
Mmaa	0	0	0	655	10.91667	0.725371	90.77709	Stalled	chr8:81790322-81820855	28.534
Gm1965	0	0	0	6	0.1	0.048639	1.001622	Unclassified	chr6:89088998-89096010	5.013
Rb1cc1	0	0	0	467	7.833333	1.69281	93.31667	Stalled	chr1:6202742-6266185	61.444
Pxt1	0	0	0	19	0.316667	0.126269	3.81097	Unclassified	chr17:29070930-29081207	8.278
Dctn2	0	0	0	492	8.2	42.2208	5.230269	Unclassified	chr10:126701454-126718863	15.41
Pir	0	0	0	58	0.966667	0.336138	6.128996	Unclassified	chrX:160705368-160810837	103.47
Dynlr2	0	0	0	45	0.75	0.099544	13.7383	Stalled	chr8:119026914-119039815	10.902
Olf1031	0	0	0	1	0.016667	0	1	Unclassified	chr2:85829975-85832986	1.012
Olf314	0	0	0	4	0.066667	0	0	Unclassified	chr11:58597737-58600730	0.994
Olf663	0	0	0	0	0	0	0	Unclassified	chr7:111850082-111853117	1.036
Olf948	0	0	0	1	0.016667	0	0	Unclassified	chr9:39126231-39129197	0.967
Mutyh	0	0	0	461	7.683333	4.85699	25.29252	Unclassified	chr4:116478338-116492035	11.698
BC051019	0	0	0	74	1.233333	0.026398	0.269544	Unclassified	chr7:116855694-116869285	11.592
Srd5a3	0	0	0	346	5.766667	4.89907	28.59915	Stalled	chr5:76567301-76584496	15.196
Was	0	0	0	292	4.866667	47.2898	8.490672	Unclassified	chrX:7658591-7669617	9.027
Tspyl3	0	0	0	227	3.783333	9.27234	15.44188	Stalled	chr2:153048113-153053177	3.065
Tldr3	0	0	0	928	15.46667	2.34387	82.83331	Stalled	chr14:87814389-87945315	128.927
Slc25a38	0	0	0	419	6.983333	11.8255	20.27018	Unclassified	chr9:120017516-120033437	13.922
Pou4f2	0	0	0	11	0.183333	0.153606	0.305957	Unclassified	chr8:80956907-80962551	3.645
She	0	0	0	60	1	0.109331	1.316003	Unclassified	chr3:89633291-89662767	27.477
Gja6	0	0	0	3	0.05	0	0.797489	Unclassified	chrX:157340047-157346984	4.938
Clyx	0	0	0	486	8.1	9.80931	25.48572	Unclassified	chr9:65140101-65178465	36.365
Syt3	0	0	0	34	0.566667	0.072614	1.867639	Unclassified	chr7:51637495-51655400	15.906
Ankib1	0	0	0	1034	17.233333	5.74796	51.27854	Unclassified	chr5:3689999-3805109	113.111
Wfdc6a	0	0	0	8	0.133333	0	0	Unclassified	chr2:164405021-164412677	5.657
Isg15	0	0	0	176	2.933333	56.1195	1.997264	Elongating	chr4:155573532-155576927	1.396
Spo11	0	0	0	58	0.966667	0.312403	0.599473	Unclassified	chr2:172803342-172819077	13.736
Zwilch	0	0	0	829	13.81667	7.70983	39.33199	Unclassified	chr9:63984952-64022738	35.787
Murc	0	0	0	13	0.216667	0.01254	0.898899	Unclassified	chr4:48674385-48686364	9.98
Caps2	0	0	0	22	0.366667	0.030156	0	Unclassified	chr10:111600731-111653611	50.881
Trat1	0	0	0	29	0.483333	0.056212	0.564324	Unclassified	chr16:48734802-48774069	37.268
Cenpj	0	0	0	270	4.5	2.59953	23.66219	Stalled	chr14:57145597-57192683	45.087
Eya4	0	0	0	144	2.4	0.031267	0	Unclassified	chr10:22823973-23071709	245.737
Ezh2	0	0	0	2033	33.88333	40.7986	25.90114	Unclassified	chr6:47480274-47547029	64.756
Ezh1	0	0	0	357	5.95	3.88289	9.22116	Unclassified	chr11:101052429-101089764	35.336
Fbxo4	0	0	0	355	5.916667	3.06085	42.55115	Stalled	chr15:3913564-3931573	16.01
Rph3al	0	0	0	301	5.016667	1.95442	0.837605	Unclassified	chr11:75645659-75726528	78.87
Tlcd2	0	0	0	84	1.4	5.688	22.98861	Stalled	chr11:75279580-75284146	2.567
Olf1373	0	0	0	3	0.05	0.026155	0	Unclassified	chr11:51958094-51961030	0.937
Ms4a3	0	0	0	8	0.133333	0.025329	0	Unclassified	chr19:11703986-11717324	11.339
Cds1	0	0	0	112	1.866667	0.438242	4.448178	Unclassified	chr5:102192148-102252871	58.724
Mks1	0	0	0	248	4.133333	3.72161	18.46337	Stalled	chr11:87664726-87677181	10.456
Arhgef15	0	0	0	39	0.65	0.26649	0.255623	Unclassified	chr11:68756655-68772360	13.706
Fas	0	0	0	294	4.9	11.2711	12.90227	Stalled	chr19:34363148-34402260	37.113
Lrig3	0	0	0	56	0.933333	0.155691	1.962136	Unclassified	chr10:125401274-125452415	49.142
Prpf3	0	0	0	579	9.65	15.0032	27.13674	Unclassified	chr3:95634544-95661676	25.133
Gzmk	0	0	0	7	0.116667	0.194187	0.572193	Unclassified	chr13:113962081-113973105	9.025
Foxn2	0	0	0	942	15.7	2.65358	16.38244	Unclassified	chr17:88838051-88889873	49.823
Pou3f4	0	0	0	1	0.016667	0.141617	1	Unclassified	chrX:108007803-108010889	1.087
Olf913	0	0	0	1	0.016667	0	0	Unclassified	chr9:38399807-38402746	0.94
Foxi1	0	0	0	15	0.25	0.038111	0.431373	Unclassified	chr11:34104340-34110089	3.75
Sfmbt1	0	0	0	804	13.4	2.01375	6.698563	Unclassified	chr14:31526034-31635907	107.874
Gzmf	0	0	0	4	0.066667	0.032732	0	Unclassified	chr14:56824099-56832244	6.146
Cacna1f	0	0	0	19	0.316667	0.06962	0.628727	Unclassified	chrX:7182228-7212322	28.095
Scara5	0	0	0	117	1.95	0.058509	0.456476	Unclassified	chr14:66283239-66383660	98.422
Golga7b	0	0	0	31	0.516667	0.136247	0.428808	Unclassified	chr19:42320067-42344837	22.771
Skiv2l	0	0	0	410	6.833333	19.591	6.212134	Unclassified	chr17:34976170-34989149	10.98
Dhrs2	0	0	0	18	0.3	0.040271	0.520248	Unclassified	chr14:55838843-55860277	19.435
Foxf2	0	0	0	15	0.25	0.403551	0	Unclassified	chr13:31715684-31723275	5.592
1700101E01Rik	0	0	0	38	0.633333	1.81258	1.896512	Unclassified	chr2:28907416-28912586	3.171
Pctg1	0	0	0	191	3.183333	11.7586	22.05882	Stalled	chr11:43233751-43241750	6
Rc3h1	0	0	0	839	13.98333	1.6708	28.32625	Unclassified	chr1:162834541-162905107	68.567
Sdf4	0	0	0	990	16.5	18.4688	12.05257	Unclassified	chr4:155365022-155387719	20.698
1700065D16Rik	0	0	0	204	3.4	4.62592	9.989352	Unclassified	chr9:95755968-95760739	2.772
Zkscan1	0	0	0	678	11.3	1.42117	9.61133	Unclassified	chr5:138524311-138549050	22.74
Pdc	0	0	0	10	0.166667	0.072702	0	Unclassified	chr1:152164546-152181035	14.49
Fam176a	0	0	0	55	0.916667	0.07974	0.492549	Unclassified	chr6:81989621-82043093	51.473
Poir2c	0	0	0	291	4.85	14.5071	4.912581	Unclassified	chr8:97379349-97388138	6.79
Dnase2b	0	0	0	44	0.733333	0.022309	0.435888	Unclassified	chr3:146244337-146280562	34.226
Zfp330	0	0	0	423	7.05	18.2894	17.08008	Unclassified	chr8:85287518-85300025	10.508
BC048671	0	0	0	10	0.166667	0.044194	0.346405	Unclassified	chr6:90249263-90255442	4.18
Tex11	0	0	0	51	0.85	0.017254	0	Unclassified	chrX:98033986-98256978	220.993

Tex16	0	0	0	5	0.083333	0.012907	0	Unclassified	chrX:109205128-109240935	33.808
Slc25a2	0	0	0	73	1.216667	0.095218	7.688112	Unclassified	chr18:37797031-37800377	1.347
Tktl1	0	0	0	15	0.25	0.025934	0	Unclassified	chrX:71420597-71453837	31.241
Serpina6	0	0	0	14	0.233333	0	1.023914	Unclassified	chr12:104884841-104897281	10.441
Musk	0	0	0	96	1.6	0.093298	1.948066	Unclassified	chr4:58296833-58387175	88.343
Nsg1	0	0	0	214	3.566667	0.191646	0.187226	Unclassified	chr5:38528431-38552706	22.276
Nsg2	0	0	0	112	1.866667	0.365691	1.752557	Unclassified	chr11:31898458-31959202	58.745
Nsdhl	0	0	0	225	3.75	14.7322	25.58233	Stalled	chrX:70161859-70203867	40.009
Nsf	0	0	0	1256	20.93333	7.3787	30.11128	Unclassified	chr11:103683096-103817370	132.275
Rims3	0	0	0	67	1.116667	0.577194	0.688966	Unclassified	chr4:120548473-120564165	13.693
Nsd1	0	0	0	2262	37.7	9.37632	1.031137	Elongating	chr13:55309142-55419686	108.545
Nrxn3	0	0	0	647	10.78333	0.049173	0.68123	Unclassified	chr12:90189833-91573373	1381.541
App1	0	0	0	612	10.2	4.08288	40.38489	Unclassified	chr14:27732173-27785737	51.565
Tor1b	0	0	0	407	6.783333	9.3968	6.411917	Unclassified	chr2:30806520-30814535	6.016
Wdr60	0	0	0	117	1.95	1.15595	13.64622	Stalled	chr12:117445522-117503498	55.977
Mpa2l	0	0	0	38	0.633333	1.28597	10.42085	Stalled	chr5:105699720-105724718	22.999
Insig2	0	0	0	429	7.15	4.9622	49.68699	Stalled	chr1:123200929-123226339	23.411
Prdm6	0	0	0	95	1.583333	0.098549	2.824006	Unclassified	chr18:53622199-53735511	111.313
Kcnh7	0	0	0	228	3.8	0.050617	0.679081	Unclassified	chr2:62541002-63024344	481.343
Pde6d	0	0	0	356	5.933333	16.3943	26.57443	Stalled	chr1:88439589-88481076	39.488
Bri3	0	0	0	238	3.966667	12.3457	5.917594	Unclassified	chr5:145014093-145025442	9.35
Ces2	0	0	0	2	0.033333	0.109056	2	Unclassified	chr8:107368985-107378368	7.384
Aebp2	0	0	0	1444	24.06667	21.1852	13.0778	Unclassified	chr6:140570209-140625939	53.731
Asgr2	0	0	0	17	0.283333	0.065389	0	Unclassified	chr11:69904145-69919688	13.544
Sl100a10	0	0	0	121	2.016667	22.3387	10.19839	Stalled	chr3:93357038-93368567	9.53
Gm6994	0	0	0	20	0.333333	0.121221	0.581378	Unclassified	chr14:77879289-77908675	27.387
Havcr1	0	0	0	31	0.516667	1.34464	0.494676	Unclassified	chr11:46562669-46593078	28.41
Acot4	0	0	0	17	0.283333	1.45328	2.827076	Unclassified	chr12:85377328-85385673	6.346
38784	0	0	0	28	0.466667	2.12911	1.902073	Unclassified	chr10:126493105-126499240	4.136
Agap2	0	0	0	297	4.95	7.61822	0.315526	Unclassified	chr10:126513962-126530225	14.264
Slc12a8	0	0	0	411	6.85	0.206454	0.797389	Unclassified	chr16:33516414-33664221	145.808
Havcr2	0	0	0	33	0.55	0.108214	0	Unclassified	chr11:46266432-46294756	28.325
Timd2	0	0	0	608	10.13333	5.58278	0.231748	Unclassified	chr11:46482461-46522606	38.146
Nccrp1	0	0	0	8	0.133333	0.142404	3.633506	Unclassified	chr7:29328615-29334273	3.659
1600021P15Rik	0	0	0	122	2.033333	0.270359	2.840997	Unclassified	chr16:28826261-28931784	103.524
Ostn	0	0	0	44	0.733333	0.060645	1.018787	Unclassified	chr16:27305726-27351295	43.57
Ccdc64b	0	0	0	114	1.9	0	0.185008	Unclassified	chr17:23795489-23805586	8.098
Mms19	0	0	0	810	13.5	6.58411	16.00225	Unclassified	chr19:42018196-42057626	37.431
Ttlf6	0	0	0	30	0.5	0.051486	0.513969	Unclassified	chr11:95993099-96026765	31.667
H2-Q8	0	0	0	110	1.833333	81.703	1.645266	Unclassified	chr17:35529043-35532577	1.535
2510009E07Rik	0	0	0	73	1.216667	0.538358	8.062236	Unclassified	chr16:21649119-21696738	45.62
Tm9sf4	0	0	0	977	16.28333	11.3798	10.55434	Unclassified	chr2:152985036-153036199	49.164
Uba6	0	0	0	493	8.216667	2.04523	63.28894	Stalled	chr5:86539753-86603768	62.016
Fbxl20	0	0	0	381	6.35	2.99409	30.52218	Stalled	chr11:97943867-98012930	67.064
Supt7l	0	0	0	312	5.2	4.54417	15.28114	Unclassified	chr5:31816942-31831135	12.194
Fnd3c2	0	0	0	10	0.166667	0.005665	0.680034	Unclassified	chrX:103430584-103452711	20.128
Gm5127	0	0	0	35	0.583333	0.035424	0	Unclassified	chrX:103776524-103905896	127.373
Klraq1	0	0	0	642	10.7	7.06848	17.07611	Unclassified	chr17:88927463-88987705	58.243
Dcaf4	0	0	0	239	3.983333	6.39244	8.434141	Unclassified	chr12:84859415-84882940	21.526
Tdpoz3	0	0	0	0	0	0.052512	0	Unclassified	chr3:93627941-93631039	1.099
Tdpoz4	0	0	0	1	0.016667	0.019627	1	Unclassified	chr3:93598319-93601432	1.114
Mrgprb1	0	0	0	2	0.033333	0.033687	0	Unclassified	chr7:55699482-55713712	12.231
Cyp2d26	0	0	0	15	0.25	0.034369	1.374179	Unclassified	chr15:82620536-82626675	4.14
Mogat2	0	0	0	39	0.65	0.028931	1.078752	Unclassified	chr7:106367593-106389121	19.529
Zfp599	0	0	0	160	2.666667	1.53469	11.13209	Stalled	chr9:22051873-22066339	12.467
Palld	0	0	0	268	4.466667	0.043153	0	Unclassified	chr8:63993819-64383487	387.669
Acot2	0	0	0	213	3.55	6.72344	21.94489	Stalled	chr12:85326810-85334823	6.014
Zfp623	0	0	0	125	2.083333	0.783621	15.09771	Stalled	chr15:75769381-75779830	8.45
Gins3	0	0	0	214	3.566667	6.45943	14.76247	Stalled	chr8:98155458-98168959	11.502
2700078E11Rik	0	0	0	558	9.3	11.0959	44.48974	Stalled	chr19:60603768-60658884	53.117
Snx18	0	0	0	406	6.766667	4.79754	14.91654	Unclassified	chr13:114382387-114410772	26.386
Hoxd4	0	0	0	11	0.183333	0.24143	0	Unclassified	chr2:74558034-74567216	7.183
Dzip3	0	0	0	616	10.26667	2.79316	130.0493	Stalled	chr16:48924340-48996225	69.886
C330027C09Rik	0	0	0	658	10.96667	7.35588	45.44602	Unclassified	chr16:48992300-49019818	25.519
Pcsk9	0	0	0	258	4.3	0.339384	0.307598	Unclassified	chr4:106114938-106138930	21.993
Cntn3	0	0	0	106	1.766667	0.029673	0	Unclassified	chr6:102113299-102416661	301.363
Olf768	0	0	0	1	0.016667	0	0	Unclassified	chr10:128530089-128533028	0.94
Olf770	0	0	0	0	0	0	0	Unclassified	chr10:128569886-128572822	0.937
Olf763	0	0	0	0	0	0.075681	0	Unclassified	chr10:128446342-128449272	0.931
Gyk	0	0	0	293	4.883333	1.48644	51.49121	Stalled	chrX:82947275-83024158	74.884
Olf7131	0	0	0	1	0.016667	0	0	Unclassified	chr17:38218976-38221921	0.946
Olf71008	0	0	0	1	0.016667	0	0	Unclassified	chr2:85527587-85530529	0.943
Olf7992	0	0	0	0	0	0	0	Unclassified	chr2:85239758-85242688	0.931
Slc25a24	0	0	0	98	1.633333	1.49644	13.49177	Stalled	chr3:108924066-108971327	45.262
Ascl2	0	0	0	17	0.283333	0.397529	1.16389	Unclassified	chr7:150152726-150157169	2.444
Dleu7	0	0	0	43	0.716667	0.516945	10.87165	Stalled	chr14:62895065-62913798	16.734
Cirh1a	0	0	0	1179	19.65	21.9594	16.30613	Unclassified	chr8:109415539-109446994	29.456
Fosl2	0	0	0	170	2.833333	1.14393	4.918643	Unclassified	chr5:32436844-32460207	21.364
Olf71104	0	0	0	0	0	0.04121	0	Unclassified	chr2:86861766-86864699	0.934
Tmem71	0	0	0	77	1.283333	3.17384	5.295922	Unclassified	chr15:66357773-66394608	34.836
Gzmb	0	0	0	7	0.116667	1.48429	2.18347	Unclassified	chr14:56877694-56883097	3.404
Trnp1	0	0	0	29	0.483333	0.317481	2.195222	Unclassified	chr4:133047014-133056465	7.452
Prr8	0	0	0	1535	25.58333	9.6104	36.75338	Unclassified	chr5:28641728-28745782	102.055
Msa4a10	0	0	0	22	0.366667	0.038106	0.801847	Unclassified	chr19:11036784-11051160	12.377
Glod5	0	0	0	7	0.116667	0	1.453343	Unclassified	chrX:7581326-7597618	14.293
Krtap26-1	0	0	0	1	0.016667	0.06586	0	Unclassified	chr16:88647068-88650041	0.974

Dcaf5	0	0	0	911	15.18333	9.58846	15.27916	Unclassified	chr12:81436833-81539588	100.756
Nsun2	0	0	0	1173	19.55	27.6551	4.221302	Unclassified	chr13:69749121-69774535	23.415
Eif4ebp2	0	0	0	706	11.76667	39.132	8.549631	Unclassified	chr10:60895244-60917417	20.174
Olfir645	0	0	0	1	0.016667	0.040558	1	Unclassified	chr7:111232644-111235592	0.949
Hook3	0	0	0	796	13.26667	1.80153	54.14343	Stalled	chr8:27131892-27231696	97.805
Zim1	0	0	0	25	0.416667	0.014643	1.428235	Unclassified	chr7:6628153-6651143	20.991
Zik1	0	0	0	72	1.2	2.58676	4.914391	Unclassified	chr7:11072572-11082730	8.159
C330019L16Rik	0	0	0	21	0.35	0.416319	4.08771	Unclassified	chr7:49864895-49899958	33.064
Zic3	0	0	0	3	0.05	0.076231	0	Unclassified	chrX:55281804-55289807	6.004
Olfir1364	0	0	0	3	0.05	0.040687	0	Unclassified	chr13:21665380-21668323	0.944
Pou3f3	0	0	0	7	0.116667	0.167199	0	Unclassified	chr1:42751990-42757054	3.065
Zhx1	0	0	0	411	6.85	4.98077	25.94961	Unclassified	chr15:57878557-57910044	29.488
Myocd	0	0	0	80	1.333333	0.083282	1.091022	Unclassified	chr11:64990071-65085491	93.421
Olfir373	0	0	0	7	0.116667	0.02706	2	Unclassified	chr8:74621660-74624605	0.946
Fank1	0	0	0	166	2.766667	0.168807	17.70097	Stalled	chr7:140966573-141073215	104.643
Ttc12	0	0	0	57	0.95	0.112981	2.533223	Unclassified	chr9:49245065-49296330	49.266
Med30	0	0	0	267	4.45	12.6675	14.49448	Unclassified	chr15:52541999-52561986	17.988
Med6	0	0	0	217	3.616667	6.5344	9.45963	Unclassified	chr12:82674550-82697945	21.396
Lrrc69	0	0	0	93	1.55	0.021184	7.594714	Unclassified	chr4:14592900-14725199	130.3
Olfir355	0	0	0	2	0.033333	0.027473	1	Unclassified	chr2:36782699-36785632	0.934
Zfp345	0	0	0	3	0.05	0.066509	0	Unclassified	chr2:150296726-150312799	14.074
1700013N18Rik	0	0	0	18	0.3	0	1.837246	Unclassified	chr5:108257271-108260783	1.513
Gm5840	0	0	0	33	0.55	0.024459	1.401583	Unclassified	chr2:153798680-153826231	25.552
Pde6h	0	0	0	19	0.316667	0.091873	0.332276	Unclassified	chr6:136901043-136912004	8.962
Defb28	0	0	0	8	0.133333	0	0.708428	Unclassified	chr2:152341990-152347183	3.194
Pip5k1a	0	0	0	564	9.4	11.2149	16.00827	Unclassified	chr3:94863519-94912780	47.262
Olfir767	0	0	0	0	0	0	0	Unclassified	chr10:128516087-128519017	0.931
Olfir725	0	0	0	1	0.016667	0	0	Unclassified	chr14:50654065-50657175	1.111
Olfir1145	0	0	0	1	0.016667	0	1	Unclassified	chr2:87647978-87650956	0.979
Olfir727	0	0	0	2	0.033333	0.045992	1	Unclassified	chr14:50744227-50747262	1.036
Olfir601	0	0	0	0	0	0	0	Unclassified	chr7:110506738-110509727	0.99
Olfir726	0	0	0	0	0	0.039802	0	Unclassified	chr14:50703388-50706354	0.967
Akp3	0	0	0	11	0.183333	0.030515	0.723248	Unclassified	chr1:89019582-89024487	2.906
Atp11c	0	0	0	540	9	1.68443	69.06618	Stalled	chrX:57476466-57659156	180.691
Pramef17	0	0	0	1	0.016667	0.032822	0	Unclassified	chr4:143581021-143586272	3.252
Klik1b3	0	0	0	8	0.133333	0.021305	1.315317	Unclassified	chr7:51451599-51457721	4.123
Olfir187	0	0	0	5	0.083333	0	0	Unclassified	chr16:59035605-59041575	3.971
Olfir186	0	0	0	0	0	0	0	Unclassified	chr16:59026801-59029731	0.931
Qk	0	0	0	1010	16.83333	7.88462	30.63612	Unclassified	chr17:10399335-10514226	112.892
Ii12b	0	0	0	19	0.316667	0.131382	0.432501	Unclassified	chr11:44211564-44227519	13.956
Ii13	0	0	0	10	0.166667	0.074452	0	Unclassified	chr11:53444825-53450204	3.38
Ii12rb2	0	0	0	471	7.85	0.191353	0.301097	Unclassified	chr6:67242011-67328131	84.121
Ii13ra2	0	0	0	7	0.116667	0	0.76337	Unclassified	chrX:143818020-143840375	20.356
Ii13ra1	0	0	0	54	0.9	0.166943	2.712931	Unclassified	chrX:33650133-33711256	59.124
Rbbp6	0	0	0	1292	21.53333	19.1694	6.109043	Unclassified	chr7:130112077-130146086	32.01
Ii15ra	0	0	0	262	4.366667	8.18582	11.71494	Unclassified	chr2:11625474-11655589	28.116
Ii15	0	0	0	106	1.766667	3.12138	19.52505	Stalled	chr8:84855522-84928444	70.923
Mtmr2	0	0	0	868	14.46667	6.589	29.38068	Unclassified	chr9:13551624-13610925	57.302
Eif4e	0	0	0	942	15.7	11.64	2.334709	Elongating	chr3:138187154-138220563	31.41
Morn3	0	0	0	149	2.483333	0.871012	0.237091	Unclassified	chr5:123487135-123498829	9.695
C1qtnf1	0	0	0	36	0.6	0.173469	0	Unclassified	chr11:118293166-118311277	16.112
Pf4	0	0	0	1	0.016667	1.04563	1	Unclassified	chr5:91199460-91202409	0.95
Sez6l	0	0	0	234	3.9	0.093102	1.631347	Unclassified	chr5:112848177-113008205	158.029
Tex101	0	0	0	6	0.1	0.036479	0.503311	Unclassified	chr7:25453030-25459069	4.04
Igdcc4	0	0	0	96	1.6	0.226817	0.861482	Unclassified	chr9:64947301-64985750	36.45
Cxcl11	0	0	0	2	0.033333	0.090609	0	Unclassified	chr5:92788570-92794303	3.734
Psrc1	0	0	0	100	1.666667	14.3907	4.532525	Unclassified	chr3:108184760-108191082	4.323
Pelo	0	0	0	292	4.866667	22.1964	16.09255	Unclassified	chr13:115878562-115882366	1.805
Hoxd10	0	0	0	10	0.166667	0.128951	2.090768	Unclassified	chr2:74528004-74533159	3.156
Olfir539	0	0	0	1	0.016667	0	0	Unclassified	chr7:147851187-147854147	0.961
9430020K01Rik	0	0	0	119	1.983333	0.434076	14.89107	Stalled	chr18:4632926-4682867	47.942
Fcgbp	0	0	0	43	0.716667	0.022619	0	Unclassified	chr7:28854254-28905883	49.63
Ncap	0	0	0	796	13.26667	16.2139	10.94486	Unclassified	chr2:126929564-126961639	30.076
Dnahc11	0	0	0	367	6.116667	0.193623	2.823824	Unclassified	chr12:119116454-119439516	321.063
Dnahc8	0	0	0	386	6.433333	0.420212	0.391141	Unclassified	chr17:30761880-31012209	248.33
Ubr2	0	0	0	1341	22.35	11.0487	10.64792	Unclassified	chr17:47065239-47149442	82.204
Ipcef1	0	0	0	111	1.85	0.120085	0.501459	Unclassified	chr10:3321355-3434998	111.644
Fgfr11	0	0	0	94	1.566667	0.99569	10.56213	Stalled	chr5:109121247-109135968	12.722
Trerf1	0	0	0	478	7.966667	0.180472	1.943519	Unclassified	chr17:47275890-47496407	218.518
Dnajc1	0	0	0	695	11.58333	6.88184	39.55223	Stalled	chr2:18138767-18316134	175.368
Dnase1	0	0	0	91	1.516667	1.06881	1.56386	Elongating	chr16:4035144-4040024	2.881
Mb12	0	0	0	3	0.05	0	0.741167	Unclassified	chr19:30305446-30314172	6.727
Gm6577	0	0	0	3	0.05	0.099632	1	Unclassified	chr7:111681472-111685875	2.404
Aldh3a1	0	0	0	27	0.45	0.081633	0.250202	Unclassified	chr11:61020243-61031918	9.676
Gjb6	0	0	0	7	0.116667	0.043319	0.755621	Unclassified	chr14:57742139-57754414	10.276
Akr1b3	0	0	0	364	6.066667	0.66777	5.597836	Unclassified	chr6:34253929-34269489	13.561
1300017J02Rik	0	0	0	52	0.866667	0.084503	0.857396	Unclassified	chr9:103152859-103192627	37.769
Hoxd11	0	0	0	10	0.166667	0.023554	0.259962	Unclassified	chr2:74518449-74522195	1.747
0610037L13Rik	0	0	0	590	9.833333	10.1242	13.38506	Unclassified	chr4:107560503-107570407	7.905
Hmgcl1	0	0	0	103	1.716667	0.482163	13.21647	Stalled	chr9:75860783-75984157	121.375
Setd2	0	0	0	1264	21.06667	7.30125	17.49562	Unclassified	chr9:110433100-110521137	86.038
Emid2	0	0	0	223	3.716667	0.037904	0	Unclassified	chr5:137217633-137360977	141.345
Nacc1	0	0	0	646	10.76667	33.1703	3.466308	Unclassified	chr8:87194378-87213761	17.384
Fit1	0	0	0	194	3.233333	0.236621	2.326998	Unclassified	chr5:148373771-148539564	163.794
Sumo3	0	0	0	900	15	20.8069	12.14974	Unclassified	chr10:77066978-77081076	12.099
Snap91	0	0	0	77	1.283333	0.030809	0.608403	Unclassified	chr9:86659238-86777207	115.97

Sncg	0	0	0	41	0.683333	0.485141	0	Unclassified	chr6:60681566-60781849	98.284
Snap25	0	0	0	35	0.583333	0.057452	1.446691	Unclassified	chr2:136537185-136608164	68.98
Snapin	0	0	0	236	3.933333	7.87752	6.25991	Unclassified	chr3:90291948-90296935	2.988
Sncg	0	0	0	10	0.166667	0	1.618197	Unclassified	chr14:35183459-35189855	4.397
Snap23	0	0	0	293	4.883333	9.13838	25.67109	Stalled	chr2:120391406-120426458	33.053
Fam3b	0	0	0	33	0.55	0.105422	1.646662	Unclassified	chr16:97692692-97728543	33.852
Sic6a20a	0	0	0	47	0.783333	0.531122	3.072328	Unclassified	chr9:123546024-123589950	41.927
Gigyf1	0	0	0	367	6.116667	12.2025	0.419081	Unclassified	chr5:137958107-137969163	9.057
Gpr151	0	0	0	167	2.783333	0.062787	1.651345	Elongating	chr18:42737673-42741306	1.634
Sall4	0	0	0	18	0.3	0.187886	0.512489	Unclassified	chr2:168573831-168594701	18.871
Vgll2	0	0	0	7	0.116667	0.104909	0	Unclassified	chr10:51740491-51748277	5.787
Herpud2	0	0	0	618	10.3	9.55799	74.69049	Stalled	chr9:24912574-24958280	43.707
Lamp2	0	0	0	515	8.583333	18.4046	16.42235	Unclassified	chrX:35758240-35811632	51.393
Krtap4-9	0	0	0	0	0	0	0	Unclassified	chr11:99644513-99647571	1.059
Cltb	0	0	0	250	4.166667	11.0408	5.22616	Unclassified	chr13:54694299-54714633	18.335
Bglap-rs1	0	0	0	2	0.033333	0.191114	2	Unclassified	chr3:88172538-88175642	1.105
Kctd21	0	0	0	130	2.166667	0.939538	13.84206	Stalled	chr7:104478832-104498726	17.895
Bglap2	0	0	0	0	0	0.097851	0	Unclassified	chr3:88181657-88184621	0.965
Cndp1	0	0	0	36	0.6	0.040773	0.524379	Unclassified	chr18:84779900-84821487	39.588
Scppdh	0	0	0	80	1.333333	3.32652	17.23797	Stalled	chr1:181596361-181617315	18.955
BC049635	0	0	0	13	0.216667	0.0617	0.366286	Unclassified	chr4:42880874-42889075	6.202
Pou3f1	0	0	0	15	0.25	0.614941	0.893032	Unclassified	chr4:124332888-124337899	3.012
Acot5	0	0	0	8	0.133333	0.767466	1.762376	Unclassified	chr12:85408274-85416969	6.696
Ccdc66	0	0	0	280	4.666667	2.99753	15.68743	Unclassified	chr14:28295595-28323646	26.052
Tmem184a	0	0	0	70	1.166667	0.082759	0.302606	Unclassified	chr5:140280906-140291197	8.292
Abcc9	0	0	0	78	1.3	0.024372	0	Unclassified	chr6:142536381-142652794	114.414
Iqub	0	0	0	38	0.633333	0.031593	2.708465	Unclassified	chr6:24394864-24467067	70.204
Supt5h	0	0	0	1283	21.383333	51.0141	9.318646	Unclassified	chr7:29099914-29125738	23.825
Abcc8	0	0	0	135	2.25	0.046586	0.359073	Unclassified	chr7:53359892-53437403	75.512
Tmem205	0	0	0	62	1.033333	3.18367	9.30292	Unclassified	chr9:21725452-21733906	6.455
Zfyve16	0	0	0	439	7.316667	1.37283	86.82185	Stalled	chr13:93257703-93302765	43.063
Ankrd34b	0	0	0	24	0.4	0.269989	1.270445	Unclassified	chr13:93193923-93211613	15.691
Cnksr1	0	0	0	34	0.566667	0.051951	3.391054	Unclassified	chr4:133783956-133796314	10.359
Rimkla	0	0	0	57	0.95	0.485395	3.230297	Unclassified	chr4:119137890-119167203	27.314
Cttnbp2	0	0	0	100	1.666667	0.082054	3.040025	Unclassified	chr6:18316476-18466825	148.35
Enpp5	0	0	0	8	0.133333	0.318764	0.48961	Unclassified	chr17:44213794-44223508	7.715
Jam3	0	0	0	192	3.2	0.332201	1.413185	Unclassified	chr9:26904968-26964965	57.998
Sic7a4	0	0	0	15	0.25	0.0833	2.058189	Unclassified	chr16:17572110-17578764	4.655
Nrg4	0	0	0	198	3.3	0.9901	0.241501	Unclassified	chr9:55068028-55133432	63.405
BC026439	0	0	0	113	1.883333	0.032474	1.358331	Unclassified	chr15:57075325-57311180	233.856
Tbc1d9	0	0	0	559	9.316667	3.03689	14.13436	Stalled	chr8:85687250-85796839	107.59
Fsip1	0	0	0	77	1.283333	1.17241	12.75832	Stalled	chr2:118030623-118084690	52.068
Gm8787	0	0	0	2	0.033333	0	0.963712	Unclassified	chrX:76575851-76605407	27.557
Nlrp1a	0	0	0	60	1	0.10391	9.546172	Unclassified	chr11:70904698-70960206	53.509
Acvr1c	0	0	0	78	1.3	0.061064	2.214585	Unclassified	chr2:58119863-58212169	90.307
Camk4	0	0	0	195	3.25	0.144656	2.300085	Unclassified	chr18:33096694-33355421	256.728
Camk2g	0	0	0	699	11.65	3.951	17.47843	Unclassified	chr14:21554096-21615310	59.215
OTTMUSG00000	0	0	0	0	0	0	0	Unclassified	chrX:75485800-75493260	5.461
Atoh1	0	0	0	7	0.116667	0.190099	1.058881	Unclassified	chr6:64677139-64681229	2.091
Neurod6	0	0	0	5	0.083333	0.011906	1.650472	Unclassified	chr6:55627812-55633257	3.446
Neurog2	0	0	0	24	0.4	1.00588	1.135011	Unclassified	chr3:127334062-127338549	2.488
Neurog3	0	0	0	3	0.05	0.18309	1	Unclassified	chr10:61593837-61597511	1.675
Atox1	0	0	0	288	4.8	42.4529	25.77394	Stalled	chr11:55260144-55276640	14.497
4921528I01Rik	0	0	0	171	2.85	0	0	Unclassified	chr18:21969397-22331897	360.501
Spata1	0	0	0	337	5.616667	0.302324	90.08289	Stalled	chr3:146120166-146164717	42.552
Poteg	0	0	0	18	0.3	0.017801	1.512227	Unclassified	chr8:28556141-28605644	47.504
Calm13	0	0	0	2	0.033333	0.179709	2	Unclassified	chr13:3802138-3805564	1.427
Tex19.2	0	0	0	5	0.083333	0.062702	0.655312	Unclassified	chr11:120977530-120981991	2.462
Ces6	0	0	0	5	0.083333	0.011163	0.623565	Unclassified	chr8:107255907-107265532	7.626
Defb39	0	0	0	6	0.1	0	2.537964	Unclassified	chr8:19052825-19066810	11.986
Zranb1	0	0	0	143	2.383333	2.82227	0.99596	Unclassified	chr7:140139304-140175634	34.331
Defb40	0	0	0	4	0.066667	0	0	Unclassified	chr8:18974939-18980116	3.178
Yipf1	0	0	0	530	8.833333	12.2214	16.68609	Unclassified	chr4:106985035-107032427	45.393
Glib13	0	0	0	19	0.316667	0.020797	0.73625	Unclassified	chr9:26625537-26670408	42.872
Zfp791	0	0	0	40	0.666667	0.488978	3.888072	Unclassified	chr8:87633065-87648994	13.93
Defb48	0	0	0	4	0.066667	0.058124	0.666073	Unclassified	chr14:63596364-63605347	6.984
V1rc6	0	0	0	0	0	0.005858	0	Unclassified	chr6:57206142-57209042	0.901
V1rc5	0	0	0	1	0.016667	0.056772	0	Unclassified	chr6:57157851-57160754	0.904
V1rc3	0	0	0	3	0.05	0.017169	2	Unclassified	chr6:57085346-57088246	0.901
Tars2	0	0	0	490	8.166667	13.0106	13.8871	Unclassified	chr3:95543898-95560900	15.003
Ptpn21	0	0	0	271	4.516667	2.06011	21.4734	Stalled	chr12:99914950-99974855	57.906
Krt73	0	0	0	11	0.183333	0.0476	0	Unclassified	chr15:101623738-101634763	9.026
Krt79	0	0	0	19	0.316667	0.091676	0.357005	Unclassified	chr15:101759762-101772755	10.994
Rai2	0	0	0	25	0.416667	0.237187	0.719167	Unclassified	chrX:158152967-158217426	62.46
Spryd3	0	0	0	332	5.533333	9.96042	13.75781	Unclassified	chr15:101946958-101968646	19.689
Nrip3	0	0	0	43	0.716667	0.39595	3.784169	Unclassified	chr7:116901569-116927059	23.491
Plagl2	0	130.7236	0	1053	17.55	14.4096	6.602261	Unclassified	chr2:153053504-153069094	13.591
L3mbtl	0	0	0	130	2.166667	0.112547	14.26193	Stalled	chr2:162767200-162800258	31.059
Ly6g6c	0	0	0	12	0.2	0	0.532134	Unclassified	chr17:35202269-35206993	2.725
Gpr133	0	0	0	162	2.7	0.091847	0.39892	Unclassified	chr5:129600624-129710474	107.851
Yipf5	0	0	0	267	4.45	7.18155	19.22588	Unclassified	chr18:40364518-40381053	14.536
Sbno1	0	0	0	909	15.15	6.35546	15.33362	Unclassified	chr5:124818710-124877923	57.214
Gpr81	0	0	0	7	0.116667	0.148256	2.782715	Unclassified	chr5:124326744-124332029	3.286
Gal3st3	0	0	0	26	0.433333	0.210188	0	Unclassified	chr19:5296330-5308738	10.409
Ftmt	0	0	0	1	0.016667	0.035089	0	Unclassified	chr18:52489189-52492650	1.462
Samd8	0	0	0	411	6.85	1.16816	21.51096	Stalled	chr14:22567752-22617947	48.196

Tm4sf19	0	0	0	30	0.5	0.10196	0.847713	Unclassified	chr16:32398591-32408313	7.723
Klhdc1	0	0	0	621	10.35	3.03055	35.74688	Unclassified	chr12:70340818-70384948	42.131
Syce1l	0	0	0	92	1.533333	0	2.576036	Unclassified	chr8:116165112-116179433	12.322
EG436523	0	0	0	2	0.033333	0.02835	0	Unclassified	chr6:41340354-41347255	4.902
Lce1a1	0	0	0	1	0.016667	0.036118	1	Unclassified	chr3:92450453-92454229	1.777
1700010M22Rik	0	0	0	1	0.016667	0	1	Unclassified	chr2:144647401-144650151	0.751
Lrrc7	0	0	0	243	4.05	0.051976	1.328489	Unclassified	chr3:157747402-158227185	477.784
Stau2	0	0	0	996	16.6	4.17506	28.52553	Stalled	chr1:16218890-16511383	290.494
Dlec1	0	0	0	130	2.166667	1.79473	11.77228	Stalled	chr9:119009595-119056811	45.217
Ciz1	0	0	0	434	7.233333	14.1776	9.915779	Unclassified	chr2:32216753-32233817	15.065
1700011A15Rik	0	0	0	16	0.266667	0.044245	1.021891	Unclassified	chr15:101276175-101284340	6.166
Foxa2	0	0	0	10	0.166667	0.066281	0	Unclassified	chr2:147868613-147874705	4.093
Dnajc5b	0	0	0	85	1.416667	0.041122	1.111199	Unclassified	chr3:19406594-19510861	102.268
Tmem196	0	0	0	33	0.55	0	2.179714	Unclassified	chr12:121182434-121257179	72.746
Rnaseh2c	0	0	0	252	4.2	84.7621	2.172686	Unclassified	chr19:5599872-5602959	1.088
Tmem169	0	0	0	91	1.516667	0.077399	41.43574	Stalled	chr1:72328946-72349569	18.624
Ccdc34	0	0	0	207	3.45	9.99499	37.70334	Stalled	chr2:109855973-109885400	27.508
Vstm2a	0	0	0	18	0.3	0.039852	1.265228	Unclassified	chr11:16155726-16184554	26.829
Diras2	0	0	0	41	0.683333	0.472893	3.988079	Unclassified	chr13:52599743-52628205	26.463
Urm1	0	0	0	567	9.45	12.3244	10.17729	Unclassified	chr2:29680908-29700516	17.609
Tuft1	0	0	0	104	1.733333	2.11331	5.078843	Unclassified	chr3:94416680-94464728	46.049
Tmx3	0	0	0	305	5.083333	0	34.74875	Stalled	chr18:90677545-90712659	33.115
AI593442	0	0	0	9	0.15	0.057043	1.147939	Unclassified	chr9:52481146-52489534	6.389
Pkp2	0	0	0	95	1.583333	0.709309	25.48163	Stalled	chr16:16211437-16272805	59.369
Nppla8	0	0	0	576	9.6	3.86488	41.16475	Unclassified	chr12:45368140-45414422	44.283
Klh13	0	0	0	36	0.6	0.007956	0.809826	Unclassified	chrX:22796396-22944179	145.784
Ikbip	0	0	0	269	4.483333	3.81601	103.732	Stalled	chr10:90543783-90565358	19.576
Ssxb1	0	0	0	1	0.016667	0	0	Unclassified	chrX:7988430-7999823	8.854
Ergic2	0	0	0	793	13.21667	13.27	22.51049	Unclassified	chr6:148127839-148162896	33.058
Nfkbib	0	0	0	298	4.966667	26.4713	8.320342	Unclassified	chr7:29543269-29553543	8.275
Olfr1441	0	0	0	4	0.066667	0.080353	3	Unclassified	chr19:12494800-12497757	0.958
Olfr1440	0	0	0	1	0.016667	0	0	Unclassified	chr19:12466754-12469702	0.949
BC048355	0	0	0	131	2.183333	6.59903	6.513205	Unclassified	chr17:46631737-46636567	2.831
Olfr76	0	0	0	0	0	0	0	Unclassified	chr19:12194210-12197164	0.955
Olfr1427	0	0	0	1	0.016667	0	1	Unclassified	chr19:12173191-12176127	0.937
Olfr1423	0	0	0	1	0.016667	0	1	Unclassified	chr19:12110297-12113230	0.934
Olfr825	0	0	0	0	0	0.022653	0	Unclassified	chr10:129599417-129602380	0.964
Tmem232	0	0	0	159	2.65	0.049522	2.586988	Unclassified	chr17:65605344-65891222	284.779
Olfr826	0	0	0	2	0.033333	0.023158	2	Unclassified	chr10:129616992-129619934	0.943
Igfbp7	0	0	0	137	2.283333	0.37794	1.2312	Unclassified	chr5:77778264-77839070	58.807
Dock6	0	0	0	368	6.133333	1.29889	9.635678	Unclassified	chr9:21604623-21659079	52.457
Zmat3	0	0	0	254	4.233333	2.16491	8.318696	Unclassified	chr3:32233715-32266587	30.873
Rer1	0	0	0	567	9.45	28.9294	8.866904	Unclassified	chr4:154448220-154462406	12.187
Prdm13	0	0	0	20	0.333333	0.233005	0.998666	Unclassified	chr4:21604626-21615110	8.485
Mill1	0	0	0	11	0.183333	0.011357	0	Unclassified	chr7:18828695-18851441	20.747
Gpd1	0	0	0	94	1.566667	0.427978	1.731197	Elongating	chr15:99546023-99555438	7.416
Ifnb1	0	0	0	7	0.116667	0.033289	5	Unclassified	chr4:88167928-88170698	0.771
Ifnar1	0	0	0	688	11.46667	6.38166	18.17107	Unclassified	chr16:91483459-91510767	25.309
Ifnab	0	0	0	1	0.016667	0.042192	0	Unclassified	chr4:88336502-88339172	0.671
Ampd1	0	0	0	63	1.05	0.054724	1.859889	Unclassified	chr3:102875936-102903643	25.708
Ifna9	0	0	0	4	0.066667	0.009201	4	Unclassified	chr4:88237716-88240289	0.574
Ifna7	0	0	0	0	0	0.022198	0	Unclassified	chr4:88460128-88462704	0.577
Mib1	0	0	0	552	9.2	6.6828	27.32544	Stalled	chr18:10723622-10812215	86.594
Crtac1	0	0	0	173	2.883333	0.107783	0.473934	Unclassified	chr19:42357526-42508273	148.748
Gjc3	0	0	0	5	0.083333	0.043754	1.781469	Unclassified	chr5:138395036-138406187	9.152
Ifng	0	0	0	2	0.033333	0.106183	0	Unclassified	chr10:117876102-117882948	4.847
Thop1	0	0	0	355	5.916667	14.6976	7.439732	Unclassified	chr10:80530827-80545105	12.279
Lypd4	0	0	0	6	0.1	0.10534	1.151704	Unclassified	chr7:25649638-25656710	5.073
BC049730	0	0	0	4	0.066667	0.032806	0.681427	Unclassified	chr7:25492277-25499554	5.278
Atp1a3	0	0	0	40	0.666667	0.165284	1.278281	Unclassified	chr7:25763187-25792914	27.728
E2f6	0	0	0	349	5.816667	6.23559	8.849895	Unclassified	chr12:16815770-16833549	15.78
Sp5	0	0	0	18	0.3	0.859848	0.819989	Unclassified	chr2:70310979-70315783	2.805
Zfp574	0	0	0	588	9.8	7.05068	8.149068	Unclassified	chr7:25860264-25868511	6.248
Bahd1	0	0	0	561	9.35	10.4209	7.357781	Unclassified	chr2:118725350-118750260	22.911
Gm11390	0	0	0	12	0.2	0	1.515015	Unclassified	chr13:33751273-33763454	10.182
Gm13154	0	0	0	24	0.4	0.133873	2.427982	Unclassified	chr4:146925415-146959304	31.89
Pcdhga2	0	0	0	681	11.35	0	4.052222	Unclassified	chr18:37826758-38001524	172.767
Gm5631	0	0	0	27	0.45	0.071755	0.725666	Unclassified	chr19:8136698-8208472	69.775
Wdr93	0	0	0	83	1.383333	0.022436	7.724474	Unclassified	chr7:86886048-86930836	42.789
2610001J05Rik	0	0	0	179	2.983333	8.99737	16.72873	Stalled	chr6:13819073-13823483	2.411
Sic16a9	0	0	0	33	0.55	0.093524	2.34508	Unclassified	chr10:69706023-69748699	40.677
Olfr877	0	0	0	3	0.05	0	3	Unclassified	chr9:37660404-37663340	0.937
Plbd1	0	0	0	762	12.7	22.1245	5.129836	Unclassified	chr6:136560591-136612414	49.824
Olfr470	0	0	0	2	0.033333	0	1	Unclassified	chr7:114988300-114991245	0.946
Olfr883	0	0	0	1	0.016667	0	1	Unclassified	chr9:37831392-37834322	0.931
Pros1	0	0	0	171	2.85	1.48151	22.00143	Stalled	chr16:62852159-62929166	75.008
Acvr2b	0	0	0	57	0.95	0.173295	2.337995	Unclassified	chr9:119309618-119342624	31.007
Prm3	0	0	0	6	0.1	0	4	Unclassified	chr16:10790600-10793007	0.408
Prnp	0	0	0	134	2.233333	1.20776	25.03299	Stalled	chr2:131733663-131764167	28.505
Proc	0	0	0	26	0.433333	0.049011	1.237462	Unclassified	chr18:32282779-32301224	16.446
Olfr1338	0	0	0	0	0	0.013605	0	Unclassified	chr4:118426199-118429141	0.943
Prom1	0	0	0	133	2.216667	0.336867	0.90349	Unclassified	chr5:44384860-44494975	108.116
Prop1	0	0	0	8	0.133333	0.064082	0.378625	Unclassified	chr11:50764307-50769134	2.828
Paps2	0	0	0	163	2.716667	0.504093	0.900343	Unclassified	chr19:32692494-32741677	47.184
Fam160a1	0	0	0	127	2.116667	1.88057	0	Unclassified	chr3:85463984-85552131	86.148
Ssx9	0	0	0	2	0.033333	0.004364	0	Unclassified	chrX:8323555-8331713	6.159

Slc10a3	0	0	0	137	2.283333	3.16401	13.77973	Stalled	chrX:71614557-71620595	4.039
C730027P07Rik	0	0	0	81	1.35	1.84916	1.286861	Unclassified	chr9:121859851-121887803	25.953
4932411E22Rik	0	0	0	20	0.333333	0.081755	0	Unclassified	chr11:89251536-89282262	28.727
Calr4	0	0	0	41	0.683333	0.19988	0.341315	Unclassified	chr4:108906236-108926853	18.618
Mrgpre	0	0	0	76	1.266667	1.39449	5.117525	Unclassified	chr7:150964269-150972405	6.137
Pigh	0	0	0	225	3.75	3.74054	20.50224	Stalled	chr12:80181657-80192657	9.001
Gm5334	0	0	0	6	0.1	0.024742	4	Unclassified	chr7:75761341-75764895	1.555
Plekha6	0	0	0	135	2.25	0.421349	1.209402	Unclassified	chr1:135140673-135200012	57.34
Tnfrsf26	0	0	0	188	3.133333	1.43083	3.37831	Unclassified	chr7:150793589-150815750	20.162
Suclg2	0	113.7595	0	1617	26.95	6.9892	19.6734	Unclassified	chr6:95424127-95670831	244.705
Kihl12	0	0	0	402	6.7	4.13365	27.30582	Unclassified	chr1:136350131-136387450	35.32
5830411N06Rik	0	0	0	39	0.65	0.062505	0.578168	Unclassified	chr7:147431199-147483540	50.342
Fbxw15	0	0	0	10	0.166667	0	0.619643	Unclassified	chr9:109455115-109472776	15.662
Lysmd1	0	0	0	189	3.15	7.40171	3.951853	Unclassified	chr3:94936031-94943441	5.411
Hprt	0	0	0	479	7.983333	35.6714	29.03702	Unclassified	chrX:50339254-50374837	33.584
Cldn22	0	0	0	1	0.016667	0.064468	1	Unclassified	chr8:48907835-48910829	0.995
St3gal4	0	0	0	327	5.45	1.52668	33.77444	Stalled	chr9:34854163-34926395	70.233
Fbxw26	0	0	0	13	0.216667	0.011977	0.696395	Unclassified	chr9:109620079-109650603	28.525
Hes1	0	0	0	95	1.583333	3.74411	0.422161	Unclassified	chr16:30063442-30067882	2.441
Uhrf2	0	0	0	993	16.55	9.79749	27.58334	Unclassified	chr19:30103002-30168214	63.213
Hells	0	0	0	1071	17.85	14.3039	23.88142	Unclassified	chr19:39003479-39042767	37.289
Supt3h	0	0	0	845	14.08333	3.9305	72.62955	Stalled	chr17:44912119-45256233	342.115
Heph	0	0	0	22	0.366667	0.013041	0	Unclassified	chrX:93648774-93769821	119.048
Stxbp3a	0	0	0	404	6.733333	2.88883	26.7452	Stalled	chr3:108596097-108645420	47.324
Hesx1	0	0	0	2	0.033333	0.169379	2	Unclassified	chr14:27811547-27811509	1.963
Jmjd4	0	0	0	261	4.35	4.64855	11.91727	Unclassified	chr11:59261589-59271570	7.982
Ndr3	0	0	0	262	4.366667	5.25164	17.1952	Stalled	chr2:156753077-156819847	64.771
Zrsr2	0	0	0	648	10.8	8.82854	20.18517	Unclassified	chrX:160373374-160398530	23.157
U2af2	0	0	0	1535	25.58333	92.3643	9.747729	Unclassified	chr7:5011783-5031541	17.759
Glce	0	0	0	50	0.833333	2.02252	0.438581	Unclassified	chr9:61905055-61920413	13.359
Tinag	0	0	0	36	0.6	0	0.726742	Unclassified	chr9:76799505-76895588	94.084
Tmprss11e	0	0	0	21	0.35	0	0	Unclassified	chr5:87134210-87176832	40.623
Hyal6	0	0	0	6	0.1	0	0	Unclassified	chr6:24681244-24695452	12.209
Fam55b	0	0	0	26	0.433333	0.443117	0.487705	Unclassified	chr9:48126086-48150981	22.896
Kifap3	0	0	0	169	2.816667	0.839678	24.19006	Stalled	chr1:165707809-165847231	137.423
Kif7	0	0	0	206	3.433333	0.439517	0.069506	Unclassified	chr7:86842984-86861072	16.089
Slc19a3	0	0	0	22	0.366667	0.081907	0.567454	Unclassified	chr1:83009098-83037023	25.926
Zfp819	0	0	0	17	0.283333	0.087567	1.258129	Unclassified	chr7:50860538-50873649	11.112
4933406J08Rik	0	0	0	21	0.35	0.030356	0	Unclassified	chr2:122010007-122032129	20.123
Kif3c	0	0	0	207	3.45	2.65436	8.461041	Unclassified	chr12:3363131-3406494	41.364
Kif4	0	0	0	699	11.65	11.4192	34.48827	Unclassified	chrX:97819403-97922610	101.208
Chrm1	0	0	0	49	0.816667	0.070351	0.920758	Unclassified	chr19:8736494-8758092	19.599
Chrd	0	0	0	22	0.366667	0.183166	0.302983	Unclassified	chr16:20731199-20742457	9.259
Chm	0	0	0	264	4.4	1.24673	9.545997	Unclassified	chrX:110154200-110301124	144.925
Chka	0	0	0	659	10.98333	5.25242	33.66698	Unclassified	chr19:3849772-3894367	42.596
Ak3	0	0	0	388	6.466667	6.59864	9.179306	Unclassified	chr19:29095321-29124392	27.072
Tas2r137	0	0	0	10	0.166667	0.025582	6	Unclassified	chr6:40439236-40442238	1.003
Scml2	0	0	0	24	0.4	0.621308	8.708999	Unclassified	chrX:157598703-157696145	95.443
Hspb3	0	0	0	2	0.033333	0.067101	2	Unclassified	chr13:114453103-114455884	0.782
Rgs17	0	0	0	60	1	0.042626	1.880421	Unclassified	chr10:4422140-4520875	96.736
Tsr2	0	0	0	224	3.733333	4.0059	10.32824	Unclassified	chrX:147521637-147533086	9.45
Tnrc6b	0	0	0	2247	37.45	4.10391	10.67015	Unclassified	chr15:80627039-80771516	142.478
Zbtb8b	0	0	0	17	0.283333	0.054571	0	Unclassified	chr4:129103008-129120062	15.055
Riok3	0	0	0	796	13.26667	11.2016	12.87013	Unclassified	chr18:12285358-12315876	28.519
Rock2	0	0	0	1168	19.46667	5.3935	45.0556	Unclassified	chr12:16899783-16995080	93.298
Slc22a8	0	0	0	37	0.616667	0.073657	0.730917	Unclassified	chr19:8663743-8686324	20.582
Sema3d	0	0	0	87	1.45	0.120654	1.428131	Unclassified	chr5:12381165-12588943	205.779
Rnu73a	0	0	0	39	0.65	0	31	Unclassified	chr3:85942712-85944780	0.069
Robo1	0	0	0	223	3.716667	0.059225	0	Unclassified	chr16:72661393-73046345	382.953
Rock1	0	0	0	1100	18.33333	6.80032	42.12327	Unclassified	chr18:10064398-10183790	117.393
Tmem132e	0	0	0	93	1.55	0.224706	1.607332	Unclassified	chr11:82200401-82259829	57.429
Lcn13	0	0	0	7	0.116667	0	0.310725	Unclassified	chr2:25553593-25558846	3.254
E030010A14Rik	0	0	0	6	0.1	0.011333	1.075679	Unclassified	chr19:24746497-24754151	5.655
Vps54	0	0	0	1094	18.23333	6.00625	21.78261	Unclassified	chr11:21136891-21221136	82.246
Pgm5	0	0	0	172	2.866667	0.104096	0.517844	Unclassified	chr19:24752750-24938332	183.583
Olfr1419	0	0	0	3	0.05	0.024838	2	Unclassified	chr19:11944672-11947704	1.033
Txnrc15	0	0	0	244	4.066667	12.5377	12.91534	Unclassified	chr13:55814010-55827588	11.579
Tmem52	0	0	0	15	0.25	2.14844	12	Unclassified	chr4:154841223-154844805	1.583
Ii1f8	0	0	0	4	0.066667	0	1.495777	Unclassified	chr2:24006691-24015623	6.933
Pxdn	0	0	0	86	1.433333	0.067778	0.978976	Unclassified	chr12:30620900-30702522	79.623
Trpv6	0	0	0	23	0.383333	0.013481	0	Unclassified	chr6:41570619-41588404	15.786
Olfr317	0	0	0	3	0.05	0.026049	0.11426	Unclassified	chr11:58545597-58548725	1.129
Olfr332	0	0	0	2	0.033333	0.089268	1	Unclassified	chr11:58303250-58306255	1.006
Olfr1089	0	0	0	1	0.016667	0	1	Unclassified	chr2:86572832-86575767	0.936
Olfr1287	0	0	0	2	0.033333	0	2	Unclassified	chr2:111287298-111290216	0.919
Olfr1028	0	0	0	0	0	0.015817	0	Unclassified	chr2:85789221-85792196	0.976
Abca1	0	0	0	191	3.183333	0.298479	3.304862	Unclassified	chr4:53043660-53174767	129.108
6230409E13Rik	0	0	0	77	1.283333	0.138524	1.449038	Unclassified	chr4:21856472-21928608	70.137
Thrsp	0	0	0	34	0.566667	0.061736	0.937112	Unclassified	chr7:104561466-104568020	4.555
Ccdc3	0	0	0	96	1.6	0.279664	2.011928	Unclassified	chr2:5056821-5151912	93.092
Orm3	0	0	0	122	2.033333	0.106261	1.07772	Elongating	chr4:63015195-63020545	3.351
Thrb	0	0	0	304	5.066667	0.215426	2.806396	Unclassified	chr14:18491473-18870602	377.13
Opn5	0	0	0	34	0.566667	0.02108	0.625871	Unclassified	chr17:42693731-42750262	54.532
Ddx26b	0	0	0	566	9.433333	6.37071	35.37315	Stalled	chrX:53706053-53761016	52.964
Gpr141	0	0	0	58	0.966667	0.037333	0	Unclassified	chr13:19841550-19918126	74.577
Mmgt1	0	0	0	158	2.633333	2.51638	23.27554	Stalled	chrX:53838688-53853096	12.409

Ipo4	0	0	0	479	7.983333	12.5305	7.867191	Unclassified	chr14:56244465-56256515	10.051
Slc9a6	0	0	0	146	2.433333	2.38834	20.50719	Stalled	chrX:53861011-53917406	54.396
Klf17	0	0	0	3	0.05	0.094444	0.889	Unclassified	chr4:117429263-117440271	9.009
Gpr112	0	0	0	7	0.016667	0.024273	0.726627	Unclassified	chrX:54214582-54233529	16.948
Sv2c	0	0	0	215	3.583333	1.05781	0.448112	Unclassified	chr13:96729397-96904532	173.136
Ficd	0	0	0	575	9.583333	2.85404	4.25177	Unclassified	chr5:114183790-114190616	4.827
Cyp20a1	0	0	0	479	7.983333	4.60084	51.87509	Stalled	chr1:60398215-60444231	44.017
Rnf166	0	0	0	309	5.15	9.28559	10.27667	Unclassified	chr8:124990046-125001964	9.919
Styx	0	0	0	252	4.2	2.0788	27.75505	Stalled	chr14:45968860-45996559	25.7
Tmem130	0	0	0	31	0.516667	0.117194	2.434126	Unclassified	chr5:145496783-145524447	25.665
Rfpl4	0	0	0	15	0.25	0.017739	0.337968	Unclassified	chr7:5061388-5070513	7.126
Eil2	0	613.7025	0	2078	34.63333	22.8789	9.877311	Unclassified	chr13:75842931-75909806	64.876
Sidt1	0	0	0	146	2.433333	1.87255	8.227905	Unclassified	chr16:44240294-44334951	92.658
Ttc36	0	0	0	124	2.066667	3.5559	1.407523	Elongating	chr9:44607482-44613034	3.553
Gen1	0	0	0	548	9.133333	3.56757	60.3778	Stalled	chr12:11247731-11274593	24.863
Zfp286	0	0	0	75	1.25	0.490193	24.62916	Stalled	chr11:62591888-62604919	11.032
Accn5	0	0	0	10	0.166667	0.038673	0.721474	Unclassified	chr3:81798843-81825155	24.313
Sertad2	0	0	0	1048	17.46667	4.98785	20.65055	Unclassified	chr11:20441255-20553026	109.772
Expi	0	0	0	1	0.016667	0	0	Unclassified	chr11:83520505-83524862	2.358
Fam53a	0	0	0	838	13.96667	16.8084	22.23092	Unclassified	chr5:33943002-33974284	29.283
Sorcs1	0	0	0	281	4.683333	0.140506	0.654301	Unclassified	chr19:50222150-50755102	530.953
Klrc3	0	0	0	3	0.05	0.011874	0	Unclassified	chr6:129589102-129595306	4.205
Shisa4	0	0	0	18	0.3	0.420031	1.086065	Unclassified	chr1:137268032-137273640	3.609
Gltscr2	0	0	0	978	16.3	171.83	2.807302	Elongating	chr7:16523186-16533457	8.272
Inpp5j	0	0	0	25	0.416667	0.036903	0.312625	Unclassified	chr11:3394274-3406824	10.551
Oosp1	0	0	0	23	0.383333	2.3424	5.078077	Unclassified	chr19:11741949-11767541	23.593
Trps1	0	0	0	367	6.116667	0.628093	12.06183	Stalled	chr15:50486304-50723587	235.284
Pdcd2l	0	0	0	331	5.516667	12.9947	13.04653	Unclassified	chr7:34969515-34983666	12.152
Ddx4	0	0	0	44	0.733333	0.041657	1.127446	Unclassified	chr13:113388542-113444518	53.977
Gemin8	0	0	0	68	1.133333	1.7709	15.78275	Stalled	chrX:162606411-162628444	20.034
Cyp2j9	0	0	0	16	0.266667	0.784172	3.440327	Unclassified	chr4:96235119-96260176	23.058
Kbtbd5	0	0	0	23	0.383333	0.245363	1.228905	Unclassified	chr9:121684724-121692937	6.214
Folh1	0	0	0	19	0.316667	0.021737	0	Unclassified	chr7:93867485-93926374	56.89
Nucb2	0	0	0	236	3.933333	7.27012	19.83528	Stalled	chr7:123645887-123684102	36.216
Ube2k	0	0	0	1049	17.48333	18.7374	28.38432	Unclassified	chr5:65926499-65990228	61.73
D930014E17Rik	0	0	0	281	4.683333	15.6973	18.60408	Unclassified	chr7:116845250-116855695	8.446
Pgrmc1	0	0	0	333	5.55	17.7252	24.09048	Unclassified	chrX:34136219-34146074	7.856
H2-BI	0	0	0	21	0.35	0	2.302037	Unclassified	chr17:36216992-36223404	4.413
Cfb	0	0	0	204	3.4	0.486104	0.425396	Unclassified	chr17:34993323-35001459	6.137
Ntn1	0	0	0	376	6.266667	0.227826	0.968759	Unclassified	chr11:68022865-68202328	177.464
Grb10	0	0	0	142	2.366667	0.130336	0.864606	Unclassified	chr11:11830510-11939358	106.849
Gpx5	0	0	0	5	0.083333	0.133749	0	Unclassified	chr13:21378297-21386555	6.259
Sifn4	0	0	0	21	0.35	0.6905	0.452178	Unclassified	chr11:82986687-83003718	15.032
Dpyd	0	0	0	395	6.583333	0.028805	0.689318	Unclassified	chr3:118263095-119135836	870.742
Col11a2	0	0	0	207	3.45	5.52947	12.1153	Stalled	chr17:34174381-34203187	26.807
Oxt	0	0	0	6	0.1	0.720733	3	Unclassified	chr2:130399908-130402724	0.817
Ksr2	0	0	0	407	6.783333	0.70157	3.267032	Unclassified	chr5:117862008-118213330	349.323
Luzp1	0	0	0	287	4.783333	0.847632	21.6861	Stalled	chr4:136023675-136105233	79.559
Zbtb16	0	0	0	216	3.6	0.067665	0.457747	Unclassified	chr9:48462401-48466050	181.65
Nek11	0	0	0	437	7.283333	0.126943	65.48872	Stalled	chr9:105064796-105299617	232.822
Trim44	0	0	0	735	12.25	13.2563	31.22349	Unclassified	chr2:102140275-102243057	100.783
Ckap2	0	0	0	236	3.933333	4.80403	23.15385	Stalled	chr8:23278623-23298291	17.669
Fam109a	0	0	0	133	2.216667	2.00829	11.90438	Stalled	chr5:122297036-122304608	5.573
Arl4d	0	0	0	245	4.083333	0.732626	57.65124	Stalled	chr11:101524854-101529146	2.293
9930013L23Rik	0	0	0	184	3.066667	0.050451	1.835556	Unclassified	chr7:91081367-91237015	153.649
Efna4	0	0	0	21	0.35	1.2206	2.133607	Unclassified	chr3:89137314-89143950	4.637
Nkain2	0	0	0	440	7.333333	0.052001	0.733431	Unclassified	chr10:31409125-32611721	1200.597
Kctd8	0	0	0	106	1.766667	0.137524	2.076029	Unclassified	chr5:69500523-69734948	232.426
Slc14a1	0	0	0	154	2.566667	3.01943	1.447232	Unclassified	chr18:78296830-78322165	23.336
Lce1e	0	0	0	0	0	0	0	Unclassified	chr3:92511321-92514996	1.676
1110028C15Rik	0	0	0	815	13.58333	0.584901	31.38253	Unclassified	chr1:66765816-66866169	98.354
Hpd1	0	0	0	99	1.65	3.51942	2.070168	Unclassified	chr4:116492511-116496113	1.603
Vmn2r50	0	0	0	1	0.016667	0	0	Unclassified	chr7:10622583-10640527	15.945
Tmem195	0	0	0	146	2.433333	0.148681	0	Unclassified	chr12:37966225-38308519	340.295
Defb45	0	0	0	3	0.05	0	0.696602	Unclassified	chr2:152418926-152424221	3.296
Neurod1	0	0	0	3	0.05	0.262082	0.59976	Unclassified	chr2:79292797-79298793	3.997
AI429214	0	0	0	29	0.483333	3.61376	7.448952	Unclassified	chr8:38054628-38058585	1.958
Slc27a6	0	0	0	35	0.583333	0.064131	1.269665	Unclassified	chr18:58713893-58772523	56.631
Adck4	0	0	0	296	4.933333	7.39588	9.84032	Unclassified	chr7:28016031-28042968	24.938
Zfp74	0	0	0	91	1.516667	0.755947	1.278737	Unclassified	chr7:30717809-30738912	19.104
Mgst3	0	0	0	151	2.516667	1.45263	44.27502	Stalled	chr1:169302514-169325928	21.415
Caprin2	0	0	0	269	4.483333	0.85518	120.5123	Stalled	chr6:148791033-148846648	53.616
Lphn2	0	0	0	238	3.966667	0.679605	0.368086	Unclassified	chr3:148478549-148619599	139.051
Fscn2	0	0	0	37	0.616667	0	0.864097	Unclassified	chr11:120220847-120229487	6.641
Arhgap21	0	0	0	677	11.28333	4.04411	4.062781	Unclassified	chr2:20769546-20891348	119.803
V1rh10	0	0	0	2	0.033333	0	2	Unclassified	chr13:22919062-22921983	0.922
Fn3krp	0	0	0	98	1.633333	4.21236	15.86495	Stalled	chr11:121280686-121292080	9.395
V1rel2	0	0	0	1	0.016667	0	0	Unclassified	chr7:27396137-27399097	0.961
V1rel1	0	0	0	1	0.016667	0.025229	0	Unclassified	chr7:10859176-10862700	1.525
V1rg11	0	0	0	0	0	0	0	Unclassified	chr7:12947156-12950113	0.958
Arhgef11	0	0	0	425	7.083333	3.15284	2.034375	Unclassified	chr3:87420672-87541955	119.284
V1rk1	0	0	0	1	0.016667	0.028866	0	Unclassified	chr7:13716819-13719707	0.889
V1rj2	0	0	0	0	0	0.047152	0	Unclassified	chr7:13802687-13805638	0.952
Vsig4	0	0	0	8	0.133333	0	0	Unclassified	chrX:93442541-93490777	46.237
V1rl1	0	0	0	0	0	0	0	Unclassified	chr7:11216935-11219832	0.898
Pcolce2	0	0	0	59	0.983333	0.20605	2.034398	Unclassified	chr9:95536046-95595970	57.925

C1qtnf7	0	0	0	78	1.3	0.047177	0	Unclassified	chr5:43904807-44007824	101.018
Eif3c	0	0	0	730	12.16667	80.3697	8.381975	Unclassified	chr7:133690424-133711880	19.457
Fgb	0	0	0	2	0.033333	0.024443	0	Unclassified	chr3:82846226-82855712	7.487
Brip1	0	0	0	905	15.08333	2.24741	67.85183	Stalled	chr11:85871639-86016695	143.057
Elavl2	0	0	0	90	1.5	0.076432	0.627466	Unclassified	chr4:90917456-91068675	149.22
Htr5b	0	0	0	30	0.5	0.281396	2.816469	Unclassified	chr1:123406349-123427042	18.694
Htr6	0	0	0	50	0.833333	0.301118	0.670723	Unclassified	chr4:138617323-138632704	13.382
Cyp2d12	0	0	0	6	0.1	0.043396	0.453328	Unclassified	chr15:82383527-82389843	4.317
Slc6a4	0	0	0	58	0.966667	0.074649	0.74641	Unclassified	chr11:76810098-76845845	33.748
Htr2c	0	0	0	39	0.65	0.013491	0.860174	Unclassified	chrX:143395055-143631820	234.766
Htr3a	0	0	0	10	0.166667	0.037239	0	Unclassified	chr9:48707317-48721204	11.888
Htr5a	0	0	0	12	0.2	0.029816	1.096698	Unclassified	chr5:28166486-28181626	13.141
Med14	0	0	0	617	10.28333	3.37163	62.31977	Stalled	chrX:12252496-12341099	86.604
Acot1	0	0	0	12	0.2	2.32445	2.721923	Unclassified	chr12:85348451-85358619	8.169
Rap1a	0	0	0	3878	64.63333	50.3609	5.851225	Unclassified	chr3:105531199-105606254	73.056
6030458C11Rik	0	0	0	479	7.983333	4.93742	18.11647	Unclassified	chr15:12737931-12756412	16.482
4930404H21Rik	0	0	0	17	0.283333	0.070035	0.968824	Unclassified	chr7:140778706-140795798	15.093
Zfp414	0	0	0	347	5.783333	15.477	6.513076	Unclassified	chr17:33764046-33768656	2.611
V1rb4	0	0	0	0	0	0	0	Unclassified	chr6:89841267-89844200	0.934
Ctsj	0	0	0	3	0.05	0	0.698568	Unclassified	chr13:61101638-61109272	5.635
Pcdh8	0	0	0	14	0.233333	0.145208	0.282125	Unclassified	chr14:80166583-80173119	4.537
Filip1	0	0	0	158	2.633333	0.170515	1.016772	Unclassified	chr9:79663368-79827689	162.322
Tnpo1	0	0	0	2303	38.38333	12.9198	9.101918	Unclassified	chr13:99612035-99698339	84.305
V1rb7	0	0	0	2	0.033333	0	0	Unclassified	chr6:89662196-89665129	0.934
Vsig1	0	0	0	12	0.2	0.029382	0	Unclassified	chrX:137440146-137474011	31.866
Clip4	0	0	0	69	1.15	0.091301	1.148446	Unclassified	chr17:72117030-72207691	88.662
V1rb1	0	0	0	3	0.05	0.013737	3	Unclassified	chr6:90055268-90058201	0.934
Usp54	0	0	0	201	3.35	0.591814	0.782384	Unclassified	chr14:21368133-21439576	69.444
Prr12	0	0	0	541	9.016667	5.46496	7.249256	Unclassified	chr7:52283076-52310251	25.176
Phf2011	0	0	0	629	10.48333	4.1707	27.34757	Unclassified	chr15:66407133-66476817	67.685
Nkg7	0	0	0	7	0.116667	0.267992	4	Unclassified	chr7:50690507-50693616	1.11
Fryl	0	0	0	2487	41.45	5.8155	12.83433	Unclassified	chr5:73411429-73649857	236.429
Snaip	0	0	0	127	2.116667	0.021062	2.212025	Unclassified	chr18:52925362-53075584	148.223
Rab32	0	0	0	59	0.983333	4.39742	12.47453	Stalled	chr10:10264836-10280005	13.17
2610027L16Rik	0	0	0	371	6.183333	14.1351	8.845895	Unclassified	chr14:56362529-56374471	9.943
Gm13271	0	0	0	1	0.016667	0	1	Unclassified	chr4:88398771-88401320	0.55
Lao1	0	0	0	21	0.35	0.013091	0.627606	Unclassified	chr4:118632571-118641515	6.945
Mobp	0	0	0	32	0.533333	0.060145	0.916009	Unclassified	chr9:120056859-120085209	26.351
Arhgef5	0	0	0	37	0.616667	0.056888	3.132444	Unclassified	chr6:43213642-43239319	23.678
Satb2	0	0	0	129	2.15	0.249732	1.162697	Unclassified	chr1:56850824-57030178	177.355
Olfr1301	0	0	0	1	0.016667	0	1	Unclassified	chr2:111592407-111595346	0.94
B4galt2	0	0	0	89	1.483333	0.428803	8.436843	Unclassified	chr4:117545623-117558074	10.452
Ska1	0	0	0	267	4.45	5.72977	12.09636	Unclassified	chr18:74354953-74369472	12.52
Gtf2h5	0	0	0	380	6.333333	25.4001	27.53173	Unclassified	chr17:6077827-6085485	5.659
Olfr1294	0	0	0	0	0	0.040947	0	Unclassified	chr2:111377505-111380444	0.94
Corin	0	0	0	188	3.133333	0.069088	2.117118	Unclassified	chr5:72691263-72897779	204.517
Spink3	0	0	0	7	0.116667	0	0	Unclassified	chr18:43887722-43898891	9.17
Olfr218	0	0	0	2	0.033333	0	1	Unclassified	chr1:175131488-175134428	0.941
Ptpmt1	0	0	0	341	5.683333	12.3576	10.23511	Unclassified	chr2:90750869-90760207	7.339
C77370	0	0	0	42	0.7	0.079996	3.073164	Unclassified	chrX:101272774-101398456	123.683
Es22	0	0	0	24	0.4	0.032137	0	Unclassified	chr8:95725117-95755440	28.324
B930041F14Rik	0	0	0	130	2.166667	5.39446	5.286293	Unclassified	chr4:155066580-155070592	2.013
Aox311	0	0	0	137	2.283333	0.069711	1.71614	Unclassified	chr1:58333169-58436107	100.939
Olfr1102	0	0	0	0	0	0	0	Unclassified	chr2:86840088-86843151	1.064
Klrg1	0	0	0	8	0.133333	0.235594	0.692004	Unclassified	chr6:122220618-122234851	12.234
Gm13277	0	0	0	5	0.083333	0	0	Unclassified	chr4:88431790-88435346	1.557
Trim32	0	0	0	141	2.35	4.06907	11.87037	Stalled	chr4:65264019-65277274	11.256
Map3k2	0	0	0	561	9.35	1.83481	30.99593	Stalled	chr18:32320742-32396405	73.664
Cox11	0	0	0	319	5.316667	8.04446	22.87879	Unclassified	chr11:90497497-90507291	7.795
Zfp108	0	0	0	11	0.183333	0.227711	3.425335	Unclassified	chr7:25037812-25047463	7.652
Gucy1a2	0	0	0	121	2.016667	0.116599	1.507236	Unclassified	chr9:3530353-3897342	364.99
Olfr1105	0	0	0	1	0.016667	0	0	Unclassified	chr2:86873437-86876376	0.94
Olfr963	0	0	0	0	0	0	0	Unclassified	chr9:39474643-39477579	0.937
Olfr967	0	0	0	0	0	0	0	Unclassified	chr9:39555972-39558905	0.934
Samd5	0	0	0	33	0.55	0.12842	0	Unclassified	chr10:9347056-9397006	47.951
Olfr304	0	0	0	0	0	0	0	Unclassified	chr7:93534166-93537168	1.003
Acaa2	0	0	0	361	6.016667	9.32839	45.03172	Stalled	chr18:74936865-74965861	26.997
Cep135	0	0	0	478	7.966667	3.06996	0.622929	Unclassified	chr5:77018738-77075491	54.754
Dapl1	0	0	0	18	0.3	0.326342	1.685287	Unclassified	chr2:59320713-59342940	20.228
Tlr12	0	0	0	114	1.9	3.79934	1.012637	Elongating	chr4:128292689-128297863	3.175
Hmbs	0	0	0	683	11.38333	13.3243	2.76216	Elongating	chr9:44144430-44154311	7.882
Rabggt	0	0	0	229	3.816667	6.06208	17.1291	Stalled	chr14:56334713-56343013	6.301
Abcc4	0	0	0	1180	19.66667	2.32175	18.1335	Unclassified	chr14:118881913-119107441	223.529
Hao2	0	0	0	10	0.166667	0	0.663085	Unclassified	chr3:98678441-98699153	18.713
Mgn1	0	0	0	1	0.016667	0.045208	1	Unclassified	chr12:11215187-11217754	0.568
Nmu	0	0	0	40	0.666667	0.047061	1.794253	Unclassified	chr5:76762519-76794802	30.284
3200002M19Rik	0	0	0	469	7.816667	20.5716	9.002723	Unclassified	chr7:109042928-109048057	3.13
Dnajc2	0	0	0	890	14.83333	29.8631	11.35658	Unclassified	chr5:21263094-21292983	27.89
Prodh2	0	0	0	18	0.3	0.014107	0.555503	Unclassified	chr7:31276676-31298421	19.746
Fxyd1	0	0	0	18	0.3	0.592252	0.351001	Unclassified	chr7:31836696-31842675	3.98
Dcbld2	0	0	0	242	4.033333	0.734903	8.464067	Unclassified	chr16:58406647-58469858	61.212
Mtap7d3	0	0	0	30	0.5	0.449246	9.136655	Unclassified	chrX:54051129-54077502	24.374
Izumo1	0	0	0	44	0.733333	0.360301	0.449674	Unclassified	chr7:52875180-52882612	5.433
Ccbe1	0	0	0	217	3.616667	0.065842	2.093892	Unclassified	chr18:66216509-66453492	234.984
Phospho2	0	0	0	230	3.833333	4.23251	19.2643	Stalled	chr2:69625793-69635225	7.433
1700052N19Rik	0	0	0	546	9.1	7.11303	26.17652	Unclassified	chr10:5891400-5915936	22.537

A330049M08Rik	0	0	0	55	0.916667	0.215187	0.721495	Unclassified	chr4:134925491-134956142	28.652
Smarca5	0	0	0	643	10.71667	5.78718	18.33161	Unclassified	chr8:83223842-83265358	39.517
Cyp4a12a	0	0	0	4	0.066667	0.066114	0	Unclassified	chr4:114969650-115005420	33.771
Olf1269	0	0	0	0	0	0.012543	0	Unclassified	chr2:89958823-89961753	0.931
Olf1259	0	0	0	0	0	0.013748	0	Unclassified	chr2:89783340-89786270	0.931
Ii22ra1	0	0	0	49	0.816667	0.066064	0.649977	Unclassified	chr4:135282134-135307280	23.147
Olf1374	0	0	0	18	0.3	0.040816	0.990698	Unclassified	chr8:74628938-74634408	3.471
Olf1396	0	0	0	8	0.133333	0.104516	3	Unclassified	chr11:48926278-48929259	0.982
Olf1893	0	0	0	2	0.033333	0.04086	1	Unclassified	chr9:38014636-38017577	0.942
Olf11330	0	0	0	2	0.033333	0.027039	1	Unclassified	chr4:118563689-118566637	0.949
Rfx3	0	0	0	977	16.28333	0.716823	138.7374	Stalled	chr19:27836210-28087656	249.447
Impa1	0	0	0	331	5.516667	13.1489	11.68725	Unclassified	chr3:10313539-10333439	17.901
Cpxm2	0	0	0	125	2.083333	0.076687	1.4411	Unclassified	chr7:139234493-139348424	111.932
Cxcl13	0	0	0	4	0.066667	0.033089	1.515856	Unclassified	chr5:96383957-96390087	4.131
Ihh	0	0	0	22	0.366667	0.136344	0.262356	Unclassified	chr1:74991891-75000225	6.335
Snx12	0	0	0	290	4.833333	10.8036	58.81952	Stalled	chrX:98293124-98419902	124.779
Rbp4	0	0	0	12	0.2	0.536162	0.490543	Unclassified	chr19:38191109-38201811	8.703
Rbp3	0	0	0	17	0.283333	0.034008	0.828618	Unclassified	chr14:34765207-34777402	10.196
Rbp2	0	0	0	28	0.466667	0	0.403117	Unclassified	chr9:98388955-98410189	19.235
Clec1b	0	0	0	7	0.116667	0.035339	0.58458	Unclassified	chr6:129345314-129355349	8.036
Smcp	0	0	0	3	0.05	0.04325	0	Unclassified	chr3:92387787-92394946	5.16
Mcpt9	0	0	0	3	0.05	0.036525	0	Unclassified	chr14:56645700-56651332	3.633
Tpsab1	0	0	0	4	0.066667	0.064566	0.397409	Unclassified	chr17:25480189-25484507	2.319
Mcpt8	0	0	0	9	0.15	0.076379	0.450642	Unclassified	chr14:56700999-56706034	3.036
Txnrc3	0	0	0	39	0.65	0.030705	0.576285	Unclassified	chr13:19736947-19791629	52.683
Trem14	0	0	0	14	0.233333	0.06968	1.671464	Unclassified	chr17:48401660-48414724	11.065
Figl1	0	0	0	720	12	10.211	17.23308	Unclassified	chr11:11700290-11710965	8.676
Dnmt3b	0	0	0	199	3.316667	1.82795	16.01552	Stalled	chr2:153473189-153513466	38.278
Fancg	0	0	0	227	3.783333	7.15065	16.53539	Unclassified	chr4:43015210-43025173	7.964
Cebpb	0	0	0	364	6.066667	11.6458	2.984331	Elongating	chr2:167512414-167515918	1.505
Dhx32	0	0	0	272	4.533333	5.46982	7.61332	Unclassified	chr7:140912617-140970486	55.87
Etv5	0	0	0	429	7.15	2.04234	30.52441	Stalled	chr16:22381385-22441643	58.259
Ambn	0	0	0	9	0.15	0.041522	0	Unclassified	chr5:88883035-88897554	12.52
Ceacam15	0	0	0	15	0.25	0.138206	0.469672	Unclassified	chr7:17256679-17263054	4.376
Alx3	0	0	0	46	0.766667	0.041188	0.599508	Unclassified	chr3:107395948-107408687	10.74
Alx4	0	0	0	84	1.4	0.094131	0.298726	Unclassified	chr2:93480590-93518093	35.504
Gfer	0	0	0	227	3.783333	14.4571	14.241	Stalled	chr17:24830135-24835101	2.967
Acaa1b	0	0	0	16	0.266667	5.66904	1.204668	Unclassified	chr9:119057160-119068211	9.052
Fam89a	0	0	0	129	2.15	1.19798	1.186281	Unclassified	chr8:127264156-127277709	11.554
Caskin2	0	0	0	159	2.65	4.06794	5.818421	Unclassified	chr11:115660665-115676906	14.242
Cacng5	0	0	0	40	0.666667	0.059238	0.505363	Unclassified	chr11:107735918-107774676	36.759
Olf1080	0	0	0	0	0	0	0	Unclassified	chr2:86393337-86400295	4.959
Olf1125	0	0	0	1	0.016667	0	0	Unclassified	chr2:87272645-87275602	0.958
Adrb1	0	0	0	16	0.266667	0.49907	0.597437	Unclassified	chr19:56794861-56799352	2.492
Adh6a	0	0	0	11	0.183333	0.023882	0	Unclassified	chr3:137974249-137994098	17.85
Cdv3	0	0	0	656	10.93333	27.5359	7.558037	Unclassified	chr9:103255431-103269309	11.879
Gm13178	0	0	0	12	0.2	0.104453	0	Unclassified	chr4:144293093-144313307	18.215
Snrpc	0	0	0	359	5.983333	15.0859	10.36203	Unclassified	chr17:27975031-27988912	11.882
Olf1278	0	0	0	0	0	0	0	Unclassified	chr2:111130426-111133368	0.943
Prokr1	0	0	0	65	1.083333	0.568509	4.051141	Unclassified	chr6:87528585-87542695	12.111
Olf1058	0	0	0	0	0	0	0	Unclassified	chr2:86225622-86228573	0.952
A230069A22Rik	0	0	0	28	0.466667	1.10936	0.361187	Unclassified	chr4:155155699-155161983	4.285
Dnajc5g	0	0	0	6	0.1	0.0164	0.889968	Unclassified	chr5:31408691-31414897	4.207
Fam160a2	0	0	0	68	1.133333	1.29232	9.943162	Unclassified	chr7:112527123-112550525	21.403
Ahcy12	0	0	0	827	13.78333	3.90189	29.71571	Stalled	chr6:29716442-29862309	143.868
Crtc2	0	0	0	576	9.6	49.2542	6.480454	Unclassified	chr3:90056202-90068047	9.846
Lrrtm1	0	0	0	4	0.066667	0.091509	0.37526	Unclassified	chr6:77190710-77195511	2.802
C2cd4b	0	0	0	5	0.083333	0.308621	5	Unclassified	chr9:67605243-67608738	1.496
Tas2r121	0	0	0	0	0	0	0	Unclassified	chr6:132650107-132653025	0.919
Tas2r120	0	0	0	3	0.05	0	2	Unclassified	chr6:132604974-132607862	0.889
Nr2c2ap	0	0	0	335	5.583333	22.3609	3.200563	Unclassified	chr8:72653231-72657647	2.417
Ide	0	0	0	358	5.966667	5.88103	1.202824	Unclassified	chr19:37343230-37407103	61.874
Tas2r113	0	0	0	2	0.033333	0.055124	0	Unclassified	chr6:132841028-132843958	0.931
Rhox2h	0	0	0	0	0	0.036249	0	Unclassified	chrX:35083503-35089784	4.282
Olf1460	0	0	0	1	0.016667	0.040687	1	Unclassified	chr6:40519386-40522331	0.946
Fam35a	0	0	0	662	11.03333	2.73576	98.66059	Stalled	chr14:35050220-35125689	73.47
Tas2r104	0	0	0	0	0	0	0	Unclassified	chr6:131634853-131637762	0.91
Tas2r109	0	0	0	1	0.016667	0	1	Unclassified	chr6:132930032-132932983	0.952
Tas2r107	0	0	0	1	0.016667	0	0	Unclassified	chr6:131609175-131612102	0.928
Senp5	0	0	0	858	14.3	4.47301	19.4872	Unclassified	chr16:31959755-32005373	43.619
4932425I24Rik	0	0	0	63	1.05	0.171374	0.82814	Unclassified	chr16:38297839-38343946	44.108
Olf1316	0	0	0	0	0	0.01353	0	Unclassified	chr2:111970027-111972972	0.946
BC089491	0	0	0	12	0.2	0.189871	0.878565	Unclassified	chr7:29069670-29078153	6.484
Svs4	0	0	0	6	0.1	0.11164	0	Unclassified	chr2:164101692-164106043	2.352
Pou4f3	0	0	0	4	0.066667	0.201304	0.199359	Unclassified	chr18:42552250-42555747	1.498
Ccnjl	0	0	0	78	1.3	0.479789	5.192138	Unclassified	chr11:43340285-43400499	58.215
Pias3	0	0	0	180	3	3.46059	15.70755	Stalled	chr3:96498998-96509993	8.996
Bcl2a1d	0	0	0	44	0.733333	45.8844	6.833911	Unclassified	chr9:88618125-88628688	8.564
4931440F15Rik	0	0	0	10	0.166667	3.86948	0.274924	Unclassified	chr11:29722394-29727668	3.275
Pde8b	0	0	0	273	4.55	0.11353	1.822744	Unclassified	chr13:95794060-96022259	226.2
Wdr41	0	0	0	327	5.45	2.84063	20.73327	Stalled	chr13:95744302-95793269	46.968
Tprg	0	0	0	100	1.666667	0.03547	0.57607	Unclassified	chr16:25284902-25422430	135.529
Setx	0	0	0	595	9.916667	7.11616	40.91106	Stalled	chr2:28978511-29037991	57.481
Vcp	0	0	0	706	11.76667	70.3174	7.000471	Unclassified	chr4:42992835-43015379	20.545
Car2	0	0	0	41	0.683333	8.74092	10.82897	Stalled	chr3:14884425-14900770	14.346
Capza2	0	0	0	708	11.8	21.7815	15.16175	Unclassified	chr6:17585097-17616536	29.44

Capza3	0	0	0	1	0.016667	0	1	Unclassified	chr6:139988045-139991307	1.263
Car1	0	0	0	25	0.416667	0.032148	1.282964	Unclassified	chr3:14766213-14810365	42.153
D5Erttd579e	0	0	0	459	7.65	2.06621	25.72032	Stalled	chr5:36943137-37089208	144.072
Csnk1g3	0	0	0	1068	17.8	5.11315	26.92412	Unclassified	chr18:54019766-54115338	93.573
Tekt5	0	0	0	105	1.75	0.130472	1.812631	Unclassified	chr16:10361346-10397541	34.196
2610034B18Rik	0	0	0	38	0.633333	0.152575	0.396686	Unclassified	chr7:87070244-87082150	9.907
Ints2	0	0	0	669	11.15	4.73428	14.65907	Unclassified	chr11:86024184-86073070	46.887
Tspan15	0	0	0	100	1.666667	0.55806	6.515958	Unclassified	chr10:61648143-61695966	45.824
Rab4a	0	0	0	170	2.833333	1.36126	4.154066	Unclassified	chr8:126327895-126359191	29.297
Mmp20	0	0	0	40	0.666667	0.03521	0	Unclassified	chr9:7626230-7674968	46.739
Arhgef18	0	0	0	405	6.75	5.10909	1.376921	Unclassified	chr8:3391007-3456600	63.594
Sra1	0	0	0	410	6.833333	30.8063	9.202361	Unclassified	chr18:36826841-36831965	3.125
Ctso	0	0	0	241	4.016667	4.04157	16.9667	Stalled	chr3:81734537-81760647	24.111
B230358A15Rik	0	0	0	7	0.116667	0.019498	0.891648	Unclassified	chrX:93502205-93554579	50.375
Smc1a	0	0	0	863	14.38333	32.0482	20.28444	Unclassified	chrX:148448970-148496515	45.546
Erlin1	0	0	0	437	7.283333	6.05976	28.01198	Unclassified	chr19:44109433-44146176	34.744
Lingo2	0	0	0	60	1	0.046358	0	Unclassified	chr4:35653896-35794445	138.55
Spry2	0	0	0	45	0.75	0.638667	4.688181	Unclassified	chr14:106291163-106298036	4.874
Cyp2c44	0	0	0	31	0.516667	0.152575	0	Unclassified	chr19:44079511-44105737	24.227
Spry4	0	0	0	178	2.966667	0.510978	17.76136	Stalled	chr18:38745918-38762922	15.005
Slc10a2	0	0	0	9	0.15	0	0	Unclassified	chr8:5085622-5107232	19.611
Slc12a2	0	0	0	448	7.466667	3.48123	36.29479	Stalled	chr18:58036331-58106474	68.144
Slc10a1	0	0	0	326	5.433333	0.127164	0.20804	Unclassified	chr12:82056478-82070971	12.494
Ythdf2	0	0	0	843	14.05	8.45786	10.44064	Unclassified	chr4:131740830-131770171	27.342
Rpl24	0	0	0	438	7.3	118.447	2.711604	Elongating	chr16:55964387-55971550	5.164
Ccdc114	0	0	0	68	1.133333	0.85686	1.260959	Unclassified	chr7:53181767-53204326	20.56
Cyp2d13	0	0	0	11	0.183333	0.052203	0.924384	Unclassified	chr15:82467179-82474475	5.297
Olfr972	0	0	0	2	0.033333	0	1	Unclassified	chr9:39678861-39681806	0.946
Haus2	0	0	0	402	6.7	4.24828	33.77572	Unclassified	chr2:120433171-120446554	11.384
Hdgfrp3	0	0	0	106	1.766667	0.320214	1.36301	Unclassified	chr7:89026141-89081345	53.205
Scmh1	0	0	0	500	8.333333	2.65868	9.51694	Unclassified	chr4:120075885-120202803	124.919
Gtse1	0	0	0	407	6.783333	16.5986	7.218396	Unclassified	chr15:85688375-85707002	16.628
Ube2d1	0	0	0	240	4	4.28823	14.19552	Stalled	chr10:70717727-70750010	30.284
Pogk	0	0	0	255	4.25	1.88312	6.60909	Unclassified	chr1:168323741-168341959	16.219
Gmcl1	0	0	0	0	0	0	0	Unclassified	chrX:30730633-30734588	1.956
1700008I05Rik	0	0	0	16	0.266667	0	0	Unclassified	chrX:132189236-132230329	39.094
Cmtm2b	0	0	0	8	0.133333	0.037024	0.556246	Unclassified	chr8:106844136-106854656	8.521
Efcab2	0	0	0	850	14.16667	1.38869	138.2773	Stalled	chr1:180334011-180413380	77.37
Slc44a5	0	0	0	232	3.866667	0.056322	2.276806	Unclassified	chr3:153634399-153934684	298.286
1700067P10Rik	0	0	0	2	0.033333	0.064566	1	Unclassified	chr17:48224581-48227870	1.29
Mcts1	0	0	0	221	3.683333	8.03008	18.26297	Stalled	chrX:35951834-35966699	12.866
Wfdc15a	0	0	0	2	0.033333	0	1	Unclassified	chr2:164024607-164027853	1.247
Wdr59	0	0	0	1603	26.71667	16.3805	7.93575	Unclassified	chr8:113972683-114048007	73.325
Sox17	0	0	0	11	0.183333	0.065515	0.359334	Unclassified	chr1:4481008-4488494	5.487
AI846148	0	0	0	383	6.383333	7.86612	13.86685	Unclassified	chr19:7430953-7459516	26.564
Gm1943	0	0	0	1	0.016667	6.01429	0	Unclassified	chr8:111863700-111866808	1.109
A4gnt	0	0	0	5	0.083333	0.117044	0	Unclassified	chr9:99510920-99522786	9.867
Ccnb1	0	0	0	505	8.416667	8.48887	6.155633	Unclassified	chr13:101548693-101558441	7.749
Nlrp1b	0	0	0	96	1.6	0.094265	8.945507	Unclassified	chr11:70966603-71046235	77.633
Capn13	0	0	0	100	1.666667	0.039224	0.967519	Unclassified	chr17:73655803-73750636	92.834
Cyp1a2	0	0	0	16	0.266667	0.067724	0.968397	Unclassified	chr9:57524743-57533462	6.72
Fam59a	0	0	0	156	2.6	0.390992	7.839615	Unclassified	chr18:21285842-21460640	172.799
Sox18	0	0	0	10	0.166667	0.284983	0.502601	Unclassified	chr2:181404541-181408345	1.805
D730039F16Rik	0	0	0	51	0.85	0.055434	2.650682	Unclassified	chr2:34727955-34747653	17.699
Arhgdig	0	0	0	45	0.75	0.397405	0.414995	Unclassified	chr17:26336127-26340295	2.169
Olfr732	0	0	0	0	0	0.041477	0	Unclassified	chr14:50900999-50903926	0.928
Neur1a	0	0	0	197	3.283333	0.329803	1.482045	Unclassified	chr19:47251309-47333930	80.622
Nf2	0	0	0	706	11.76667	12.8225	20.96486	Unclassified	chr11:4665850-4751530	83.681
Neurog1	0	0	0	10	0.166667	0.169345	1.59904	Unclassified	chr13:56351859-56355524	1.666
Olfr444	0	0	0	1	0.016667	0.016562	1	Unclassified	chr6:42903498-42906431	0.934
Olfr1131	0	0	0	1	0.016667	0	1	Unclassified	chr2:87466621-87469551	0.931
Olfr1135	0	0	0	1	0.016667	0.027473	0	Unclassified	chr2:87511589-87514522	0.934
Olfr1112	0	0	0	0	0	0.053569	0	Unclassified	chr2:87029845-87032802	0.958
Olfr365	0	0	0	0	0	0.034041	0	Unclassified	chr2:37054762-37057701	0.94
Olfr733	0	0	0	0	0	0.051575	0	Unclassified	chr14:50918011-50921005	0.995
Rasgrf1	0	0	0	179	2.983333	0.699329	4.147163	Unclassified	chr9:89802612-89921817	117.206
Mup5	0	0	0	6	0.1	0.073488	0.834329	Unclassified	chr4:61492352-61498214	3.863
Mup1	0	0	0	0	0	0	0	Unclassified	chr4:60510886-60516832	3.947
Mup4	0	0	0	4	0.066667	0.058589	0.588562	Unclassified	chr4:59969677-59975537	3.861
Mup3	0	0	0	6	0.1	0	0.972075	Unclassified	chr4:61744510-61750346	3.837
Subgcp4	0	0	0	617	10.28333	8.81448	29.30914	Unclassified	chr2:120994941-121022854	25.914
Mier3	0	0	0	334	5.566667	0.89966	13.99837	Unclassified	chr13:112474385-112508802	32.418
Kcnc2	0	0	0	104	1.733333	0.033096	1.320151	Unclassified	chr10:111706178-111903360	195.183
Fam170a	0	0	0	5	0.083333	0.0191	1.098016	Unclassified	chr18:50436022-50442673	4.652
1200014J11Rik	0	0	0	500	8.333333	5.82412	13.78311	Unclassified	chr11:72859368-72897081	35.714
Olfr382	0	0	0	1	0.016667	0.027298	0	Unclassified	chr11:73329760-73332699	0.94
V1rd13	0	0	0	0	0	0	0	Unclassified	chr7:24676547-24679462	0.916
Olfr450	0	0	0	2	0.033333	0.08242	2	Unclassified	chr6:42765471-42768404	0.934
Cpne8	0	0	0	112	1.866667	0.159297	2.589395	Unclassified	chr15:90317911-90511819	191.909
Olfr919	0	0	0	1	0.016667	0.013487	0	Unclassified	chr9:38505013-38507961	0.949
1200009O22Rik	0	0	0	11	0.183333	0.149501	2.085666	Unclassified	chr6:53765462-53772819	5.358
5430437P03Rik	0	0	0	426	7.1	42.584	3.980938	Unclassified	chr8:73918753-73928671	7.919
Rps6ka3	0	0	0	312	5.2	2.24525	35.03733	Stalled	chrX:155692051-155801417	107.367
Olfr1309	0	0	0	1	0.016667	0	1	Unclassified	chr2:111823290-111826253	0.964
Defa5	0	0	0	0	0	0.012522	0	Unclassified	chr8:22435072-22438054	0.983
Gabarapl2	0	0	0	291	4.85	10.4461	3.66023	Unclassified	chr8:114462617-114476480	11.864

Mospd3	0	0	0	498	8.3	19.7866	4.130897	Unclassified	chr5:138037874-138044268	4.395
Pard6g	0	0	0	273	4.55	2.11204	6.926567	Unclassified	chr18:80241633-80316379	72.747
Aff4	0	0	0	1275	21.25	6.09212	19.76066	Unclassified	chr11:53162268-53235332	71.065
Wnt16	0	0	0	79	1.316667	0.545767	0.228717	Unclassified	chr6:22236226-22248522	10.297
Mpv17l	0	0	0	24	0.4	0.371253	3.037138	Unclassified	chr16:13938787-13949450	8.664
Acox2	0	0	0	50	0.833333	0	0.408872	Unclassified	chr14:9058025-9093533	33.509
Mrs2	0	0	0	400	6.666667	7.6828	39.10467	Stalled	chr13:25084351-25114248	27.898
Htt	0	0	0	1337	22.28333	7.02804	34.28394	Unclassified	chr5:35102388-35252045	147.658
Hsd11b1	0	0	0	186	3.1	1.46873	2.339256	Unclassified	chr1:195047834-195092239	42.406
9530068E07Rik	0	0	0	373	6.216667	26.5474	10.44826	Unclassified	chr11:52207929-52222225	12.297
Hdgfrp2	0	0	0	491	8.183333	39.0469	13.23076	Unclassified	chr17:56217079-56240019	20.941
Hdgff1	0	0	0	6	0.1	0.173541	0.997494	Unclassified	chr13:26860040-26864034	1.995
Hebp1	0	0	0	65	1.083333	1.58208	6.582518	Unclassified	chr6:135087536-135120233	30.698
Serpinb1c	0	0	0	13	0.216667	0.119451	0.663087	Unclassified	chr13:32973265-32992009	16.745
Snap29	0	0	0	506	8.433333	9.75504	18.63301	Unclassified	chr16:17404092-17430919	24.828
Slc47a1	0	0	0	56	0.933333	0.053523	0	Unclassified	chr11:61156901-61193577	34.677
Mtfr1	0	0	0	464	7.733333	4.35083	18.2235	Unclassified	chr3:19086243-19120805	32.563
Wscd1	0	0	0	46	0.766667	0	0.468775	Unclassified	chr11:71562204-71603148	38.945
Abcg8	0	0	0	49	0.816667	0.049064	1.1136	Unclassified	chr17:85080470-85099673	17.204
Ifit80	0	0	0	681	11.35	3.01953	52.31498	Stalled	chr3:68696432-68810492	112.061
Nkapl	0	0	0	47	0.783333	4.06022	14.09341	Unclassified	chr13:21558915-21562370	1.456
Rbm4b	0	0	0	598	9.966667	6.27652	8.286742	Unclassified	chr19:4754524-4765940	9.417
Dnase1l2	0	0	0	84	1.4	0.92257	1.672326	Elongating	chr17:24577712-24582046	2.335
Paox	0	0	0	151	2.516667	4.10854	25.32378	Stalled	chr7:147309583-147320233	8.651
Vps24	0	0	0	514	8.566667	9.11296	24.20332	Unclassified	chr6:71491847-71531568	37.722
Cpa5	0	0	0	31	0.516667	0.058761	0	Unclassified	chr6:30559009-30581521	20.513
Krtap3-2	0	0	0	1	0.016667	0	0	Unclassified	chr11:99417136-99420167	1.032
Sema3a	0	0	0	76	1.266667	0.168409	0.7295	Unclassified	chr5:13397308-13602571	203.264
Try4	0	0	0	4	0.066667	0	1.061694	Unclassified	chr6:41250270-41255532	3.263
Rhou	0	0	0	19	0.316667	0.07983	2.991028	Unclassified	chr8:126175828-126187780	9.953
Txndc8	0	0	0	31	0.516667	0.041477	0	Unclassified	chr4:57996900-58023996	25.097
Cpne1	0	0	0	1048	17.46667	20.4012	13.7156	Unclassified	chr2:155897580-155939700	40.121
Enox1	0	0	0	443	7.383333	0.103726	2.250786	Unclassified	chr14:77554622-78121214	564.593
Foxq1	0	0	0	10	0.166667	0.963826	0.933173	Unclassified	chr13:31648038-31652843	2.806
Gm347	0	0	0	22	0.366667	0.240191	0.638728	Unclassified	chr2:28301460-28311028	7.569
Dcun1d5	0	0	0	435	7.25	30.8266	35.7188	Unclassified	chr9:7182565-7207031	22.467
Foxd1	0	0	0	7	0.116667	0.39407	2.969131	Unclassified	chr13:99122199-99126660	2.462
Foxg1	0	0	0	8	0.133333	0.11581	0	Unclassified	chr12:50481869-50487853	3.985
Slc25a33	0	0	0	537	8.95	4.66302	17.33697	Unclassified	chr4:149118144-149150376	30.233
Tipin	0	0	0	835	13.91667	25.618	19.73593	Unclassified	chr9:64127413-64152599	23.187
Sunc1	0	0	0	34	0.566667	0.01866	1.572343	Unclassified	chr11:8916056-8950994	32.939
Itch	0	0	0	761	12.68333	4.80761	25.70805	Unclassified	chr2:154957216-155052590	93.375
Pdgcfc	0	0	0	106	1.766667	0.605682	3.858836	Unclassified	chr3:80838337-81017953	177.617
Clec4a3	0	0	0	11	0.183333	0.236609	3.058026	Unclassified	chr6:122900661-122919892	17.232
Olfr1087	0	0	0	0	0	0	0	Unclassified	chr2:86530188-86533130	0.943
Pou3f2	0	0	0	5	0.083333	0.383149	0.144934	Unclassified	chr4:22413940-22417278	1.339
Kif13b	0	0	0	716	11.93333	2.14317	15.94225	Stalled	chr14:65269367-65425133	153.767
Ssxb8	0	0	0	1	0.016667	0	0	Unclassified	chrX:8262457-8269970	5.514
Poir2e	0	0	0	236	3.933333	62.1797	4.423391	Unclassified	chr10:79498697-79504404	3.708
Tmc5	0	0	0	88	1.466667	0.101879	0.955159	Unclassified	chr7:125738810-125818599	77.79
Kif12	0	0	0	11	0.183333	0.017088	0.354672	Unclassified	chr4:62826670-62835165	6.496
Kif13a	0	0	0	346	5.766667	0.532017	10.70486	Stalled	chr13:46844456-47027087	180.632
Ppapdc3	0	0	0	39	0.65	0.28106	1.201671	Unclassified	chr2:31949170-31966340	15.171
Olfr1090	0	0	0	0	0	0.040816	0	Unclassified	chr2:86593951-86596893	0.943
Chat	0	0	0	71	1.183333	0.050171	0.909452	Unclassified	chr14:33221388-33281095	57.708
Cga	0	0	0	13	0.216667	0.092738	0	Unclassified	chr4:34839027-34854623	13.597
Olfr74	0	0	0	1	0.016667	0	1	Unclassified	chr2:87813863-87816820	0.958
Olfr73	0	0	0	0	0	0.054422	0	Unclassified	chr2:87874352-87877294	0.943
Gfi1b	0	0	0	47	0.783333	0.850605	4.190227	Unclassified	chr2:28464970-28479502	12.533
Olfr1157	0	0	0	1	0.016667	0.054596	1	Unclassified	chr2:87802108-87805047	0.94
Chd1	0	0	0	1065	17.75	8.07331	17.03468	Unclassified	chr17:15839930-15909576	67.647
Dnajc6	0	0	0	146	2.433333	0.111936	0.501983	Unclassified	chr4:101167252-101315398	146.147
Rnf138	0	0	0	509	8.483333	4.66634	25.51965	Unclassified	chr18:21157841-21186724	26.884
Slc22a21	0	0	0	75	1.25	2.0854	14.27444	Stalled	chr11:53764325-53795529	29.205
Urb2	0	0	0	338	5.633333	5.19128	0.789066	Unclassified	chr8:126545372-126572404	25.033
C430004E15Rik	0	0	0	339	5.65	8.61953	9.489334	Unclassified	chr2:25116117-25125406	7.29
Gm11938	0	0	0	0	0	0	0	Unclassified	chr11:99463959-99466622	0.664
Kcnv2	0	0	0	25	0.416667	0.030293	0.370932	Unclassified	chr19:27395108-27411669	14.562
Olfr984	0	0	0	0	0	0.067811	0	Unclassified	chr9:39908128-39911073	0.946
Defb4	0	0	0	2	0.033333	0.146955	0.648011	Unclassified	chr8:19196705-19201545	2.841
Pqbp1	0	0	0	296	4.933333	58.0698	12.61559	Unclassified	chrX:7471648-7478354	4.707
Rspo4	0	0	0	53	0.883333	0.108109	1.142254	Unclassified	chr2:151666662-151700404	31.743
C8b	0	0	0	35	0.583333	0.054793	1.060271	Unclassified	chr4:104436921-104477153	38.233
Xlr5a	0	0	0	0	0	0	0	Unclassified	chrX:70352974-70365041	10.068
Xlr3b	0	0	0	1	0.016667	0.377727	1	Unclassified	chrX:70435517-70448269	10.753
Htr2a	0	0	0	61	1.016667	1.40582	0	Unclassified	chr14:75038646-75106666	66.021
Lig3	0	0	0	658	10.96667	4.56541	15.59884	Unclassified	chr11:82592636-82617776	23.141
Lifr	0	0	0	1388	23.13333	5.38233	6.373635	Unclassified	chr15:7077571-7147489	67.919
Ins1	0	0	0	0	0	0.037769	0	Unclassified	chr19:52336812-52339948	1.137
Tmx2	0	0	0	230	3.833333	10.3265	14.67077	Unclassified	chr2:84511473-84520204	6.732
Lipa	0	0	0	252	4.2	6.40284	17.99262	Stalled	chr19:34566805-34603964	35.16
Mat2b	0	0	0	400	6.666667	18.0894	18.05419	Unclassified	chr11:40492815-40508115	13.301
Pr17b1	0	0	0	3	0.05	0	0	Unclassified	chr13:27693687-27704451	8.765
Trim33	0	0	0	776	12.93333	4.19894	56.90912	Unclassified	chr3:103081215-103162691	79.477
Dusp9	0	0	0	8	0.133333	0.578822	1.303887	Unclassified	chrX:70882779-70888853	4.075
1700013G24Rik	0	0	0	7	0.116667	0	0.560115	Unclassified	chr4:137007210-137011376	2.167

Pla2g5	0	0	0	94	1.566667	0.048069	1.229847	Unclassified	chr4:138355161-138421384	64.224
Pcdh1	0	0	0	16	0.266667	0.052553	0.462984	Unclassified	chr18:38356347-38371416	13.07
Hspb8	0	0	0	20	0.333333	0	0.426222	Unclassified	chr5:116858503-116874873	14.371
Olf1039	0	0	0	1	0.016667	0	0	Unclassified	chr2:85970858-85973818	0.961
Olf1307	0	0	0	2	0.033333	0.047723	0	Unclassified	chr2:111784672-111787611	0.94
Rnf170	0	0	0	435	7.25	1.42425	74.37522	Stalled	chr8:27227851-27254341	24.491
Zar1	0	0	0	7	0.116667	0	0	Unclassified	chr5:151309645-151322734	11.09
Olf301	0	0	0	1	0.016667	0	1	Unclassified	chr7:93558873-93561809	0.937
Olf144	0	0	0	2	0.033333	0.050209	2	Unclassified	chr9:39045071-39048016	0.946
Adamts1	0	0	0	238	3.966667	0.044144	0	Unclassified	chr4:85697818-86074286	374.469
Med25	0	0	0	365	6.083333	19.1366	9.88604	Unclassified	chr7:52134755-52149736	12.982
Slco4c1	0	0	0	20	0.333333	0.299797	1.488556	Unclassified	chr1:98715360-98770748	53.389
Cchr1	0	0	0	207	3.45	6.26048	14.7614	Stalled	chr17:35652060-35667960	13.901
Tusc3	0	0	0	446	7.433333	8.46068	39.20724	Stalled	chr8:40066920-40250468	181.549
Tnni3	0	0	0	17	0.283333	1.29096	0.516932	Unclassified	chr7:4469909-4476045	4.137
Tnni2	0	0	0	53	0.883333	3.55422	8.343488	Unclassified	chr7:149626372-149630310	1.939
Tnfrsf9	0	0	0	101	1.683333	11.9593	6.524132	Unclassified	chr17:57242807-57247180	2.374
Slc7a12	0	0	0	11	0.183333	0	0.706925	Unclassified	chr3:14478698-14505818	25.121
Tnp1	0	0	0	1	0.016667	0	1	Unclassified	chr1:73061648-73064473	0.826
Tnp2	0	0	0	60	1	8.73776	53	Unclassified	chr16:10788027-10790748	0.722
Msh2	0	0	0	585	9.75	13.4978	27.73089	Unclassified	chr17:88069896-88123053	51.158
BC048507	0	0	0	2	0.033333	17.4686	1	Unclassified	chr13:67962273-67964854	0.582
Msc	0	0	0	11	0.183333	0.239138	0.563805	Unclassified	chr1:14743428-14748047	2.62
Rims4	0	0	0	84	1.4	0.077021	0.396189	Unclassified	chr2:163689616-163746419	54.804
Fstl4	0	0	0	522	8.7	0.09457	0.8965	Unclassified	chr11:52576207-53000849	422.643
Crispld1	0	0	0	20	0.333333	0.035192	2.069207	Unclassified	chr1:17715497-17756288	38.792
Ebp	0	0	0	208	3.466667	22.3525	7.304796	Unclassified	chrX:7762456-7772638	8.183
Ebf3	0	0	0	136	2.266667	0.151282	0.471975	Unclassified	chr7:144385353-144508128	120.776
Ebf2	0	0	0	179	2.983333	0.100358	2.666975	Unclassified	chr14:67850128-68048604	196.477
Lefty1	0	0	0	17	0.283333	1.23359	0.144463	Unclassified	chr1:182863169-182868532	3.364
Samd7	0	0	0	24	0.4	0.213675	1.993781	Unclassified	chr3:30643214-30666089	20.876
Gps1	0	0	0	393	6.55	13.429	2.302052	Elongating	chr11:120643828-120650416	4.589
Pdgfrl	0	0	0	52	0.866667	0.108684	0.564595	Unclassified	chr8:42009586-42076124	64.539
Ecel1	0	0	0	16	0.266667	0.166261	0.73374	Unclassified	chr1:89044229-89053602	7.374
Ank3	0	0	0	440	7.333333	0.136959	1.059942	Unclassified	chr10:68994455-69490184	493.73
Dbpht2	0	0	0	4	0.066667	0.051351	0.39952	Unclassified	chr12:75396460-75401455	2.996
Ang2	0	0	0	2	0.033333	0	1	Unclassified	chr14:51815160-51817598	0.439
Ang3	0	0	0	2	0.033333	0.072409	0	Unclassified	chr14:44532733-44540744	6.012
Slc25a4	0	0	0	445	7.416667	116.265	11.03807	Unclassified	chr8:47292697-47298363	3.667
Pygo1	0	0	0	14	0.233333	0.058757	1.234865	Unclassified	chr9:72771456-72793822	20.367
Pla2g4e	0	0	0	106	1.766667	0.108783	0.856672	Unclassified	chr2:119992147-120073071	78.925
Jazf1	0	0	0	698	11.63333	0.214701	3.967421	Unclassified	chr6:52718061-53020618	300.558
Ctdspl2	0	0	0	819	13.65	3.43878	32.80765	Unclassified	chr2:121780188-121839322	57.135
Lcmt2	0	0	0	592	9.866667	10.843	13.00311	Unclassified	chr2:120963027-120968434	3.408
Mecom	0	0	0	409	6.816667	0	1.160578	Unclassified	chr3:29850225-30410409	558.185
Mpz12	0	0	0	67	1.116667	0.721317	4.262363	Unclassified	chr9:44848426-44862126	11.701
Tollip	0	0	0	692	11.53333	8.85458	21.12818	Unclassified	chr7:149067489-149090311	20.823
Muc13	0	0	0	44	0.733333	0.017267	1.168785	Unclassified	chr16:33792122-33820013	25.892
Tm9sf2	0	0	0	1292	21.53333	14.952	18.76961	Unclassified	chr14:122504303-122558825	52.523
Suz12	0	0	0	1274	21.23333	18.6652	23.1761	Unclassified	chr11:79804607-79847624	41.018
Emr4	0	0	0	55	0.916667	0.051398	1.319116	Unclassified	chr17:55887248-55992927	103.68
Akirin1	0	0	0	382	6.366667	12.4725	15.45156	Unclassified	chr4:123412437-123429542	15.106
Serpina12	0	0	0	27	0.45	0.052099	0.369896	Unclassified	chr12:105266978-105284653	15.676
Atp5s	0	0	0	358	5.966667	1.28595	74.84477	Stalled	chr12:70823948-70845645	19.698
Iqcd	0	0	0	150	2.5	0.322713	13.30163	Stalled	chr5:121037031-121057122	18.092
Slmo2	0	0	0	674	11.23333	30.7062	9.814163	Unclassified	chr2:174290591-174300442	7.852
Fem1b	0	0	0	794	13.23333	9.65376	20.21355	Unclassified	chr9:62639635-62661455	19.821
Zfp454	0	0	0	17	0.283333	0.093504	1.540528	Unclassified	chr11:50686224-50702945	14.722
Tssc1	0	0	0	874	14.56667	15.4899	21.96296	Unclassified	chr12:29434692-29552355	115.664
Btnl9	0	0	0	30	0.5	0.286195	0.388192	Unclassified	chr11:48981826-49002591	18.766
Gm889	0	0	0	137	2.283333	0.12679	15.62548	Stalled	chr12:40902972-40927902	22.931
Mpp4	0	0	0	70	1.166667	0	2.413483	Unclassified	chr1:59177778-59220480	40.703
Ism1	0	0	0	66	1.1	0.191548	2.294859	Unclassified	chr2:139501913-139584317	80.405
Gm5647	0	0	0	0	0	0.020222	0	Unclassified	chrX:151009770-151015873	4.104
Tmem27	0	0	0	15	0.25	0	0	Unclassified	chrX:160526118-160556791	28.674
2310030G06Rik	0	0	0	10	0.166667	0.123829	0.454489	Unclassified	chr9:50547795-50556626	6.832
Cntn6	0	0	0	149	2.483333	0.021486	1.433409	Unclassified	chr6:104441037-104813399	370.363
Psors1c2	0	0	0	7	0.116667	0.13264	2	Unclassified	chr17:35668213-35671590	1.378
Caprin1	0	0	0	1733	28.88333	44.9919	10.33703	Unclassified	chr2:103603101-103639797	34.697
Pde3a	0	0	0	160	2.666667	0.033527	0	Unclassified	chr6:141195789-141447872	250.084
Tbc1d8	0	0	0	756	12.6	0.915544	1.12203	Unclassified	chr1:39428343-39537592	107.25
Sfrp5	0	0	0	14	0.233333	0.074278	0.534321	Unclassified	chr19:42272462-42278742	4.281
Npff	0	0	0	109	1.816667	1.43681	46	Unclassified	chr15:102354269-102357052	0.784
Gtpbp1	0	0	0	691	11.51667	23.4707	7.455451	Unclassified	chr15:79519325-79551909	30.585
Stk38l	0	0	0	359	5.983333	0.770439	29.35583	Stalled	chr6:146671529-146727328	53.8
Fam110c	0	0	0	5	0.083333	0.40944	0.623777	Unclassified	chr12:31756832-31764805	5.974
Serpina5	0	0	0	8	0.133333	0.011856	1.003239	Unclassified	chr12:105337322-105344347	5.026
Obox5	0	0	0	1	0.016667	0.013787	0	Unclassified	chr7:16333718-16344623	8.906
Smyd5	0	0	0	608	10.13333	16.2235	3.876992	Unclassified	chr6:85379969-85396423	14.455
Slc38a11	0	0	0	95	1.583333	0.135665	0.332831	Unclassified	chr2:65154689-65204083	47.395
Myl3	0	0	0	14	0.233333	0	0.780023	Unclassified	chr9:110664184-110672298	6.115
Olf649	0	0	0	7	0.116667	0.027298	3	Unclassified	chr7:111337780-111340719	0.94
Klhl5	0	0	0	136	2.266667	9.81062	1.306616	Unclassified	chr5:65520469-65559381	36.913
Gmeb1	0	0	0	760	12.66667	3.25096	12.74253	Unclassified	chr4:131776939-131819464	40.526
Foxred2	0	0	0	343	5.716667	3.82158	13.27273	Unclassified	chr15:77770953-77789152	16.2
Mmp24	0	0	0	272	4.533333	0.075192	0.136875	Unclassified	chr2:155599079-155644102	43.024

Kirrel	0	0	0	140	2.333333	0.018973	1.229646	Unclassified	chr3:86882513-86980669	96.157
Mmp2	0	0	0	28	0.466667	0.143293	0	Unclassified	chr8:95349226-95377319	26.094
Ctndd1	0	0	0	202	3.366667	1.38365	5.735179	Unclassified	chr2:84440937-84492897	49.961
Arl9	0	0	0	31	0.516667	0.127844	1.516255	Unclassified	chr5:77431079-77438502	5.424
V1rh4	0	0	0	2	0.033333	0.034799	1	Unclassified	chr13:22472406-22475510	1.105
V1rh3	0	0	0	2	0.033333	0.04769	0	Unclassified	chr13:22484897-22487836	0.94
Scamp1	0	0	0	108	1.8	0.241106	5.124262	Unclassified	chr13:94971387-95057236	83.85
V1rg8	0	0	0	1	0.016667	0	0	Unclassified	chr7:12906556-12909477	0.922
Fam108a	0	0	0	259	4.316667	44.1469	4.649046	Unclassified	chr10:80046398-80055049	6.652
V1rg6	0	0	0	2	0.033333	0.041883	1	Unclassified	chr7:12463691-12466609	0.919
V1rg5	0	0	0	0	0	0	0	Unclassified	chr7:12430123-12433038	0.916
Ccdc53	0	0	0	305	5.083333	14.5301	32.1806	Stalled	chr10:87661841-87708903	45.063
V1rh6	0	0	0	0	0	0.044386	0	Unclassified	chr13:23101117-23104272	1.156
V1rh5	0	0	0	1	0.016667	0.034827	0	Unclassified	chr13:23124206-23127310	1.105
Ankrd40	0	0	0	307	5.116667	24.7788	12.01475	Unclassified	chr11:94187314-94203161	13.848
Clec4b2	0	0	0	20	0.333333	0	0.643232	Unclassified	chr6:123121040-123154689	31.65
Nucb1	0	0	0	439	7.316667	53.0882	7.518419	Unclassified	chr7:52748043-52767778	17.736
Numb	0	0	0	164	2.733333	2.92192	1.131213	Unclassified	chr12:85136388-85185293	46.906
Hey1	0	0	0	21	0.35	2.05129	1.836144	Unclassified	chr3:8663358-8669038	3.681
1700034E13Rik	0	0	0	8	0.133333	0	0	Unclassified	chr18:52803873-52823385	17.513
Bcor	0	0	0	1176	19.6	8.35668	7.174103	Unclassified	chrX:11613865-11659679	43.815
Gm12185	0	0	0	23	0.383333	0.318204	2.233996	Unclassified	chr11:48718157-48742661	22.505
Gm10319	0	0	0	8	0.133333	0.065602	0	Unclassified	chr6:122084645-122100976	14.332
Reep6	0	0	0	50	0.833333	0.514792	2.961087	Unclassified	chr10:79790914-79799186	6.273
Prss23	0	0	0	8	0.133333	0.039728	1.375146	Unclassified	chr7:96656294-96668096	9.803
Liph	0	0	0	50	0.833333	0.477426	1.392723	Unclassified	chr16:21953890-21997615	41.726
Noto	0	0	0	14	0.233333	0.053625	2.396757	Unclassified	chr6:85371879-85378869	4.991
Pgm2	0	0	0	287	4.783333	21.2829	18.04639	Stalled	chr4:99600055-99659899	57.845
Zfp157	0	0	0	250	4.166667	2.36037	15.4228	Unclassified	chr5:138880703-138901922	19.22
Gm128	0	0	0	194	3.233333	0.087186	4.06385	Unclassified	chr3:95040841-95047031	4.191
Rfc5	0	0	0	680	11.333333	13.6536	6.532868	Unclassified	chr5:117829153-117841032	9.88
Itga9	0	0	0	499	8.316667	0.168419	3.378571	Unclassified	chr9:118513826-118810121	294.296
Wdr86	0	0	0	113	1.883333	0.810887	1.76679	Unclassified	chr5:24218086-24238498	18.413
Dnaja1	0	0	0	820	13.66667	12.228	16.32038	Unclassified	chr4:40667500-40684182	14.683
Hsf2	0	0	0	162	2.7	2.24098	10.55738	Stalled	chr10:57204190-57232949	26.76
Hspb1	0	0	0	17	0.283333	1.41709	0.583208	Unclassified	chr5:136361788-136365433	1.646
9830107B12Rik	0	0	0	14	0.233333	0.040838	1.923855	Unclassified	chr17:48262554-48285218	20.665
Mtus1	0	0	0	120	2	0.063231	1.643824	Unclassified	chr8:42076265-42221080	142.816
Olfir693	0	0	0	2	0.033333	0	2	Unclassified	chr7:113821047-113823998	0.952
Insl3	0	0	0	136	2.266667	0	0.851296	Unclassified	chr8:74211150-74214474	1.325
Olfir1129	0	0	0	2	0.033333	0.039436	0	Unclassified	chr2:87413242-87416187	0.946
BC048546	0	0	0	37	0.616667	0.057289	0.531165	Unclassified	chr6:128489839-128533624	41.786
Rab9b	0	0	0	5	0.083333	0.068154	2.473268	Unclassified	chrX:133392689-133405079	10.391
Trim52	0	0	0	3	0.05	0.008314	2	Unclassified	chr14:106503414-106508497	3.084
Luzp2	0	0	0	178	2.966667	0.034021	0.709667	Unclassified	chr7:62088614-62524258	433.645
Olfir1310	0	0	0	1	0.016667	0	0	Unclassified	chr2:111848402-111851341	0.94
Siglech	0	0	0	20	0.333333	0.13872	1.632836	Unclassified	chr7:63021547-63034203	10.657
Subgcp5	0	0	0	891	14.85	3.82596	27.13889	Unclassified	chr7:63047517-63086817	37.301
Sds	0	0	0	89	1.483333	0.407392	0	Unclassified	chr5:120924555-120933914	7.36
Pgk1	0	0	0	437	7.283333	72.9301	11.20613	Unclassified	chrX:103380462-103399038	16.577
Aldoart2	0	0	0	3	0.05	28.9615	0.730964	Unclassified	chr12:56664121-56667696	1.576
Tekt3	0	0	0	34	0.566667	0.03685	1.004712	Unclassified	chr11:62873160-62908462	33.303
Oas1e	0	0	0	14	0.333333	0.129214	0.855359	Unclassified	chr5:121236320-121247539	9.22
Psca	0	0	0	8	0.133333	0.06003	3	Unclassified	chr15:74543268-74547493	2.226
Reclq4	0	0	0	488	8.133333	6.76835	10.82614	Unclassified	chr15:76534170-76542906	6.737
Pdcl2	0	0	0	12	0.2	0.022948	0	Unclassified	chr5:76741170-76762136	18.967
Fam111a	0	0	0	598	9.966667	16.3662	6.70404	Unclassified	chr19:12646014-12664186	16.173
Zfp536	0	0	0	308	5.133333	0.107505	0.979118	Unclassified	chr7:38264127-38556771	290.645
Exoc6	0	0	0	758	12.63333	3.7603	23.06272	Unclassified	chr19:37622907-37757739	132.833
E330013P04Rik	0	0	0	38	0.633333	0.272556	0.977541	Unclassified	chr19:60218577-60238493	17.917
Yipf4	0	0	0	254	4.233333	8.13562	29.09352	Stalled	chr17:74886853-74899617	10.765
S100a16	0	0	0	5	0.083333	0	0.317406	Unclassified	chr3:90343144-90347073	1.93
Akr1b10	0	0	0	153	2.55	4.66416	15.6166	Stalled	chr6:34332246-34346949	12.704
Dsel	0	0	0	53	0.883333	1.20511	17.08299	Stalled	chr1:113755278-113763495	6.218
Fam50a	0	0	0	189	3.15	21.4571	14.04963	Stalled	chrX:71556371-71565487	7.117
Fam50b	0	0	0	15	0.25	0.058478	0	Unclassified	chr13:34829510-34839491	7.982
Olfir92	0	0	0	0	0	0.068212	0	Unclassified	chr17:37247986-37250925	0.94
Xlir4a	0	0	0	5	0.083333	1.13389	2.345264	Unclassified	chrX:70319683-70329846	8.164
Taar9	0	0	0	3	0.05	0.024482	3	Unclassified	chr10:23828293-23831340	1.048
Stox2	0	0	0	200	3.333333	0.11503	0	Unclassified	chr8:48265401-48439702	172.302
Klri1	0	0	0	10	0.166667	0	0.677604	Unclassified	chr6:129647235-129669150	19.916
Prosapip1	0	0	0	107	1.783333	1.29854	7.888521	Unclassified	chr2:130458574-130470539	9.966
Fermt1	0	0	0	31	0.516667	0.051217	0.584878	Unclassified	chr2:132729914-132773772	41.859
Ucp3	0	0	0	53	0.883333	0.091614	1.396965	Unclassified	chr7:107619499-107634941	13.443
Pcdh11x	0	0	0	76	1.266667	0.048633	1.785235	Unclassified	chrX:117401935-118020059	616.125
Ucp1	0	0	0	8	0.133333	0.218283	5.260173	Unclassified	chr8:85812246-85822355	8.11
Ucn	0	0	0	7	0.116667	0.417924	4	Unclassified	chr5:31440361-31443268	0.908
Ubp1	0	0	0	803	13.38333	16.3194	13.40196	Unclassified	chr9:113838051-113886319	46.269
Tbx22	0	0	0	6	0.1	0.009556	0.800136	Unclassified	chrX:104861302-104884318	21.017
Ubr1	0	0	0	1050	17.5	3.04289	45.62067	Unclassified	chr2:120686011-120798451	110.441
Osbp2	0	0	0	503	8.383333	5.92843	9.08857	Unclassified	chr2:179852070-179897385	43.316
2010003K11Rik	0	0	0	6	0.1	0	2	Unclassified	chr19:4496787-4500583	1.797
2310022B05Rik	0	0	0	207	3.45	4.01571	13.34088	Stalled	chr8:127159656-127189269	27.614
Gsta1	0	0	0	1	0.016667	0.099306	1	Unclassified	chr9:78076475-78090490	12.016
1810065E05Rik	0	0	0	5	0.083333	0.027711	0.494567	Unclassified	chr11:58232612-58239525	4.914
Rec8	0	0	0	146	2.433333	0.563768	0.083955	Unclassified	chr14:56235006-56244227	7.222

Trmt11	0	0	0	635	10.58333	1.58642	42.35435	Unclassified	chr10:30254030-30322555	66.526
Nr5a2	0	0	0	151	2.516667	0.07216	0.435806	Unclassified	chr1:138740160-138859025	116.866
Gm5382	0	0	0	0	0	0.035408	0	Unclassified	chrX:13786273-13788783	0.511
Mapk9	0	0	0	453	7.55	5.40019	15.21125	Unclassified	chr11:49658252-49699923	39.672
Sic5a9	0	0	0	32	0.533333	0.047032	0	Unclassified	chr4:111547981-111577401	27.421
Skint10	0	0	0	25	0.416667	0.033348	0	Unclassified	chr4:112383434-112449466	64.033
Cblb	0	0	0	641	10.68333	1.76523	33.10819	Stalled	chr16:52029661-52208159	176.499
Negr1	0	0	0	445	7.416667	0.102513	0	Unclassified	chr3:156222757-156979411	754.655
G6pc2	0	0	0	6	0.1	0.02548	0	Unclassified	chr2:69056054-69066045	7.992
Rnf219	0	0	0	576	9.6	4.32001	17.5048	Unclassified	chr14:104876750-104923883	45.134
Zfp612	0	0	0	17	0.283333	0.98727	4.574691	Unclassified	chr8:112601633-112616652	13.02
Tspyl4	0	0	0	121	2.016667	5.45753	5.054128	Unclassified	chr10:34015226-34021126	3.901
Fam43b	0	0	0	7	0.116667	0.113706	1.252747	Unclassified	chr4:137950006-137954373	2.368
Defb14	0	0	0	1	0.016667	0	1	Unclassified	chr8:19192356-19195212	0.857
Actrt2	0	0	0	4	0.066667	0.026701	0.918112	Unclassified	chr4:154040536-154043976	1.441
Prox2	0	0	0	523	8.716667	2.89042	3.410843	Unclassified	chr12:86427763-86449381	19.619
Mfsd6	0	0	0	204	3.4	2.06881	9.436283	Unclassified	chr1:52713147-52786162	71.016
Alad	0	0	0	348	5.8	18.85	9.784632	Unclassified	chr4:62170203-62183097	10.895
Gtppb6	0	0	0	644	10.73333	14.1849	4.919856	Unclassified	chr5:110532995-110539216	4.222
Naga	0	0	0	119	1.983333	5.51284	7.980098	Unclassified	chr15:82159961-82171256	9.296
Supt16h	0	0	0	1206	20.1	24.2753	20.7063	Unclassified	chr14:52780093-52818914	36.822
Prnd	0	0	0	43	0.716667	1.0773	7.349763	Unclassified	chr2:131774596-131781866	5.271
G0s2	0	0	0	13	0.216667	0.318846	11	Unclassified	chr1:195098353-195101382	1.03
Erlin2	0	0	0	258	4.3	3.64197	15.76777	Unclassified	chr8:28132330-28149896	15.567
Hgsnat	0	0	0	396	6.6	4.62573	37.15893	Stalled	chr8:27054930-27089216	32.287
Aplnr	0	0	0	8	0.133333	0.118703	0.921639	Unclassified	chr2:84974516-84980079	3.564
Olf1557	0	0	0	3	0.05	0.097002	0.05482	Unclassified	chr7:109844729-109847786	1.058
Adamts5	0	0	0	29	0.483333	0.057718	1.217051	Unclassified	chr16:85858401-85903370	42.97
Agr2	0	0	0	16	0.266667	0.050591	0	Unclassified	chr12:36717511-36730668	11.158
Serinc2	0	0	0	33	0.55	0.047822	0.842107	Unclassified	chr4:129930740-129954830	22.091
Adam25	0	0	0	1	0.016667	0	0	Unclassified	chr8:41835561-41841530	3.97
Olf1633	0	0	0	1	0.016667	0.075053	0	Unclassified	chr7:111093081-111096020	0.94
Csnk1d	0	0	0	1199	19.98333	35.4605	6.159475	Unclassified	chr11:120823054-120854647	29.594
Adamts1	0	0	0	8	0.133333	0.070837	1.247498	Unclassified	chr16:85794072-85805360	9.289
Olf1692	0	0	0	2	0.033333	0.038837	2	Unclassified	chr7:112514841-112517831	0.991
Olf1677	0	0	0	1	0.016667	0	0	Unclassified	chr7:112202761-112205700	0.94
Olf168	0	0	0	0	0	0.034041	0	Unclassified	chr16:19530072-19533011	0.94
Adam7	0	0	0	19	0.316667	0.055331	0	Unclassified	chr14:69115393-69153746	36.354
Olf1564	0	0	0	3	0.05	0.013445	3	Unclassified	chr7:109949993-109952944	0.952
Zic5	0	0	0	17	0.283333	0.895086	0.942857	Unclassified	chr14:122858381-122866880	6.5
Xlr5c	0	0	0	1	0.016667	0	0	Unclassified	chrX:70530535-70537854	5.32
Nt5m	0	0	0	463	7.716667	7.10383	18.24609	Unclassified	chr11:59659574-59690035	28.462
Pkd21l	0	0	0	48	0.8	0.04631	0	Unclassified	chr19:44222126-44268932	44.807
Xlr4b	0	0	0	11	0.183333	1.17639	3.196573	Unclassified	chrX:70457703-70467792	8.09
Lrp10	0	0	0	787	13.11667	61.7391	6.810585	Unclassified	chr14:55080983-55089128	6.146
Zfp275	0	0	0	288	4.8	2.7084	12.76462	Unclassified	chrX:70585958-70604418	16.461
Olf1697	0	0	0	0	0	0	0	Unclassified	chr7:113884492-113887446	0.955
Glipr11l	0	0	0	11	0.183333	0.02864	2.848779	Unclassified	chr10:111495244-111515565	18.322
Ccdc7	0	0	0	27	0.45	0.025582	0	Unclassified	chr8:131503918-131591373	85.456
Plic2	0	0	0	1260	21	6.97409	20.93595	Unclassified	chr17:50646871-50827818	178.948
a	0	0	0	524	8.733333	4.74079	0.065377	Unclassified	chr2:154837305-154876748	37.444
Spata4	0	0	0	4	0.066667	0.02425	0.734959	Unclassified	chr8:55684133-55695451	9.319
0610031J06Rik	0	0	0	134	2.233333	33.0168	5.482319	Unclassified	chr3:88126944-88132553	3.61
Ranbp9	0	0	0	1106	18.43333	8.67117	22.23105	Unclassified	chr13:43498041-43578342	78.302
Rhobtb1	0	0	0	699	11.65	3.14313	23.75965	Unclassified	chr10:68673404-68754532	79.129
Ccn1l	0	0	0	1267	21.11667	19.1767	12.02255	Unclassified	chr3:65750072-65764147	12.076
Vps41	0	0	0	631	10.51667	5.90326	16.0671	Stalled	chr13:18807160-18958678	149.519
Pou6f2	0	0	0	180	3	0.090982	0	Unclassified	chr13:18216793-18475873	257.081
Zkscan2	0	0	0	15	0.25	0.058829	1.268538	Unclassified	chr7:130622153-130645963	21.811
Amph	0	0	0	112	1.866667	0.02808	1.947016	Unclassified	chr13:19038239-19242784	202.546
I118rap	0	0	0	37	0.616667	0.201466	2.616664	Unclassified	chr1:40570206-40606142	33.937
Cxcl15	0	0	0	7	0.116667	0.012051	0.556705	Unclassified	chr5:91221559-91232093	8.535
Sesn1	0	89.81012	0	218	3.633333	8.34741	14.9612	Stalled	chr10:41605244-41628242	20.999
Rem2	0	0	0	59	0.983333	5.25618	0.791954	Unclassified	chr14:55092936-55099271	4.336
Sec63	0	0	0	755	12.58333	9.93792	11.58111	Unclassified	chr10:42479301-42552320	71.02
Gpr6	0	0	0	9	0.15	0.176048	6	Unclassified	chr10:40790298-40793390	1.093
Hexa	0	0	0	320	5.333333	11.7636	17.27858	Unclassified	chr9:59385473-59412912	25.44
Olf1260	0	0	0	0	0	0	0	Unclassified	chr2:89815936-89818869	0.934
Olf177	0	0	0	3	0.05	0	0.681579	Unclassified	chr9:19719672-19726952	5.281
Spr2e	0	0	0	2	0.033333	0.018029	0.235474	Unclassified	chr3:92154064-92157371	1.308
4930578C19Rik	0	0	0	14	0.233333	0	1.554309	Unclassified	chrX:17995552-18040400	42.849
Fam184a	0	0	0	75	1.25	0.074646	1.865603	Unclassified	chr10:53352951-53472715	117.765
Spr2d	0	0	0	2	0.033333	0.022691	1	Unclassified	chr3:92141061-92144795	1.735
Muc20	0	0	0	40	0.666667	0.151986	0.667088	Unclassified	chr16:32777504-32799521	20.018
Adh1	0	0	0	8	0.133333	0.03843	0.632507	Unclassified	chr3:137938608-137953655	13.048
Sic6a7	0	0	0	43	0.716667	0.034504	0	Unclassified	chr18:61155033-61175853	18.821
Ccl8	0	0	0	6	0.1	0	0.33979	Unclassified	chr11:81926686-81930299	1.614
Fam155a	0	0	0	330	5.5	0.069344	1.267428	Unclassified	chr8:9206009-9773023	565.015
2200001I15Rik	0	0	0	5	0.083333	0	0.385844	Unclassified	chr14:35165067-35170579	3.513
Ccl25	0	0	0	18	0.3	0.957184	2.765816	Unclassified	chr8:4347614-4360020	10.407
Tusc1	0	0	0	154	2.566667	4.51928	67	Unclassified	chr4:93000838-93004202	1.365
Olf1179	0	0	0	0	0	0	0	Unclassified	chr2:88242165-88245089	0.925
Cdk12	0	0	0	1362	22.7	11.8979	38.62971	Unclassified	chr11:98062618-98114854	50.237
Ccl27a	0	0	0	20	0.333333	0.596866	11.64631	Stalled	chr4:41716342-41723007	4.666
Flrt1	0	0	0	43	0.716667	0	2.275364	Unclassified	chr19:7166501-7182219	13.719
Lonrf3	0	0	0	31	0.516667	0.152058	3.779609	Unclassified	chrX:33866403-33906851	38.449

Ly6k	0	0	0	12	0.2	3.21606	4.605469	Unclassified	chr15:74627303-74632398	3.096
Dync2h1	0	0	0	392	6.533333	0.787771	23.41173	Stalled	chr9:6928502-7179046	248.545
Ccl4	0	0	0	15	0.25	1.08745	1.94256	Unclassified	chr11:83474085-83478185	2.101
Olfr399	0	0	0	4	0.066667	0	2	Unclassified	chr11:73867323-73870259	0.937
Olfr395	0	0	0	1	0.016667	0.040947	0	Unclassified	chr11:73720053-73722992	0.94
Olfr174	0	0	0	1	0.016667	0.023762	1	Unclassified	chr16:58823606-58828587	2.982
Olfr139	0	0	0	4	0.066667	0.027039	4	Unclassified	chr11:73857826-73860774	0.949
Olfr173	0	0	0	4	0.066667	0.038557	1	Unclassified	chr16:58796575-58799738	1.164
Olfr172	0	0	0	3	0.05	0	2	Unclassified	chr16:58760265-58763353	1.089
Olfr195	0	0	0	2	0.033333	0	0	Unclassified	chr16:59146677-59149604	0.928
Olfr181	0	0	0	0	0	0.011109	0	Unclassified	chr16:58925382-58930470	3.089
Olfr392	0	0	0	2	0.033333	0	0	Unclassified	chr11:73627643-73632379	2.737
Olfr394	0	0	0	0	0	0	0	Unclassified	chr11:73700939-73703872	0.934
Mcm3	0	0	0	1004	16.73333	73.8547	2.829285	Elongating	chr1:20793094-20812294	17.201
Mcm2	0	0	0	1221	20.35	42.5881	4.252742	Unclassified	chr6:88833467-88850774	15.308
Zbtb12	0	0	0	228	3.8	5.39077	2.81239	Elongating	chr17:35029503-35033789	2.287
Rhpn2	0	0	0	173	2.883333	0.621531	3.243781	Unclassified	chr7:36117255-36177304	58.05
Chrna2	0	0	0	317	5.283333	0.245175	0	Unclassified	chr14:66757796-66771785	11.99
Scal	0	0	0	406	6.766667	0.603393	30.10328	Stalled	chr2:38921734-39048250	124.517
Spef2	0	0	0	121	2.016667	0.727114	17.20958	Stalled	chr15:9592490-9680561	86.072
Ube2v2	0	0	0	613	10.21667	1.05417	25.04861	Unclassified	chr16:15551078-15596611	43.534
Yaf2	0	0	0	443	7.383333	6.02877	10.36416	Unclassified	chr15:93114263-93169366	53.104
Ipo9	0	0	0	783	13.05	10.3553	17.3887	Unclassified	chr1:137278891-137329068	48.178
Casp3	0	0	0	636	10.6	22.1544	26.22128	Unclassified	chr8:47700802-47724062	21.261
Casp14	0	0	0	8	0.133333	0.016878	0	Unclassified	chr10:78174741-78182987	6.247
Pla2g2a	0	0	0	7	0.116667	0	1.312711	Unclassified	chr4:138385771-138391104	3.334
Casp4	0	0	0	284	4.733333	8.51041	3.654651	Unclassified	chr9:5306859-5336791	27.933
Casp1	0	0	0	69	1.15	10.705	3.563475	Unclassified	chr9:5296516-5307281	8.766
Cask	0	0	0	318	5.3	0.259139	20.68322	Stalled	chrX:13094207-13425667	329.461
Chpt1	0	0	0	150	2.5	6.70114	18.46515	Stalled	chr10:87935559-87968715	31.157
Casp7	0	0	0	273	4.55	2.27488	16.36782	Stalled	chr19:56469618-56516833	45.216
Casp6	0	0	0	182	3.033333	6.69395	4.557955	Unclassified	chr3:129602342-129617020	12.679
AU017455	0	0	0	61	1.016667	0.223203	1.172708	Unclassified	chr14:79612161-79649174	35.014
Nlrp6	0	0	0	18	0.3	0.656982	0.28088	Unclassified	chr7:148104800-148114439	7.64
Ccar1	0	0	0	858	14.3	13.1146	22.46306	Unclassified	chr10:62206677-62257116	48.44
Gadd45gip1	0	0	0	516	8.6	46.7517	3.148764	Unclassified	chr8:87354180-87359381	3.202
Cd248	0	0	0	9	0.15	0.220109	1.754701	Unclassified	chr19:5066077-5070639	2.563
Scn11a	0	0	0	101	1.683333	0.041733	0	Unclassified	chr9:119662882-119736574	71.693
Crisp4	0	0	0	11	0.183333	0	0	Unclassified	chr1:18105271-18129132	21.862
Ncstn	0	0	0	556	9.266667	14.3655	14.02393	Unclassified	chr1:173996144-174014880	16.737
Ankrd56	0	0	0	15	0.25	0.223373	1.303674	Unclassified	chr5:93470148-93476048	3.901
Cav3	0	0	0	18	0.3	0.055386	0.903869	Unclassified	chr6:112407498-112422866	13.369
Nckap1	0	0	0	111	1.85	0.325422	6.914315	Unclassified	chr2:80341451-80423122	79.672
4930503B20Rik	0	0	0	7	0.116667	0.025279	0	Unclassified	chr3:146309222-146316281	5.06
4930502E18Rik	0	0	0	5	0.083333	0	0	Unclassified	chrX:51026007-51041399	13.393
4930511M11Rik	0	0	0	47	0.783333	0.090837	0	Unclassified	chr5:3655003-3679416	22.414
Rnase10	0	0	0	3	0.05	0.035438	0.646768	Unclassified	chr14:51625603-51630433	2.831
Cris1	0	0	0	243	4.05	7.03487	26.05825	Stalled	chr2:132670401-132692504	20.104
Sycp3	0	0	0	15	0.25	0.046068	2.450363	Unclassified	chr10:87920331-87935980	13.65
Syn1	0	0	0	219	3.65	0.540687	1.992038	Unclassified	chrX:20437636-20500044	60.409
Syn2	0	0	0	134	2.233333	0.251509	2.175927	Unclassified	chr6:115082919-115232644	147.726
Fbxw2	0	0	0	990	16.5	13.3438	10.5522	Unclassified	chr2:34659883-34683755	21.873
Sdc1	0	0	0	163	2.716667	5.20519	5.767458	Unclassified	chr12:8776201-8800493	22.293
1700057K13Rik	0	0	0	19	0.316667	0.028544	1.581283	Unclassified	chr1:159029278-159040776	9.499
Sult4a1	0	0	0	46	0.766667	0.27429	1.252232	Unclassified	chr15:83906526-83938184	29.659
Serpina3b	0	0	0	15	0.25	0.044599	0	Unclassified	chr12:105364205-105377755	11.551
Foxl2os	0	0	0	12	0.2	0.153216	0.668639	Unclassified	chr9:98850199-98857718	5.52
Es1	0	0	0	14	0.233333	0.101435	0	Unclassified	chr8:95622915-95657182	32.268
Sorcs3	0	0	0	391	6.516667	0.070924	0.607299	Unclassified	chr19:48278514-48879995	599.482
Pcdh10	0	0	0	39	0.65	0.121311	1.835701	Unclassified	chr3:45180319-45238501	56.183
Serpinb12	0	0	0	18	0.3	0.015194	0	Unclassified	chr1:108829025-108853655	22.631
1700023E05Rik	0	0	0	61	1.016667	2.09463	3.194911	Unclassified	chr5:77443047-77490547	45.501
Ddc8	0	0	0	24	0.4	0.038877	0	Unclassified	chr11:118193673-118205848	10.176
Accs1	0	0	0	24	0.4	0.065028	0	Unclassified	chr2:93695519-93711260	13.742
Lym2	0	0	0	343	5.716667	8.61235	23.88919	Unclassified	chr4:32885233-32889227	1.995
Zswim2	0	0	0	68	1.133333	0.571652	12.54435	Stalled	chr2:83755235-83783383	26.149
Wdr16	0	0	0	146	2.433333	0.168542	3.291105	Unclassified	chr11:67738307-67781144	40.838
Fbxo30	0	0	0	547	9.116667	1.45293	44.52918	Unclassified	chr10:10999127-11017767	16.641
Rab40b	0	0	0	63	1.05	0.330034	1.39709	Unclassified	chr11:121217435-121251565	32.131
Tmem179	0	0	0	37	0.616667	0.048608	1.247936	Unclassified	chr12:113738394-113751371	10.978
Rab15	0	0	0	37	0.616667	0.401678	1.759648	Unclassified	chr12:77898949-77925511	24.563
Ctbp2	0	0	0	243	4.05	0.145069	1.474651	Unclassified	chr7:140178693-140317166	136.474
Cstb	0	0	0	233	3.883333	34.3359	15.17091	Unclassified	chr10:77886414-77890367	1.954
Spef1	0	0	0	131	2.183333	2.91128	6.355711	Unclassified	chr2:130995996-131002546	4.551
Cst8	0	0	0	1	0.016667	0.036462	0	Unclassified	chr2:148622574-148631320	6.747
Lrrc10	0	0	0	15	0.25	0.421826	0.875766	Unclassified	chr10:116480396-116483824	1.429
Cst7	0	0	0	172	2.866667	5.56156	3.048975	Unclassified	chr2:150394150-150404678	8.529
Phf6	0	0	0	599	9.983333	6.22629	13.72648	Unclassified	chrX:50263442-50310120	44.679
Ctf1	0	0	0	22	0.366667	0.667021	3.886997	Unclassified	chr7:134854249-134861699	5.451
BC061237	0	0	0	4	0.066667	0	0.635258	Unclassified	chr14:45117792-45126016	6.225
Olfr1153	0	0	0	1	0.016667	0	1	Unclassified	chr2:87734333-87737290	0.958
Olfr1141	0	0	0	0	0	0	0	Unclassified	chr2:87593212-87596148	0.937
1700061G19Rik	0	0	0	107	1.783333	0.26088	0.323487	Unclassified	chr17:57013055-57028261	13.207
Lrrcc1	0	0	0	242	4.033333	3.19516	31.75744	Stalled	chr3:14531787-14572657	38.871
Dram1	0	0	0	100	1.666667	1.06346	15.79296	Stalled	chr10:87785548-87821820	34.273
S100a7a	0	0	0	5	0.083333	0.08648	0.414348	Unclassified	chr3:90456223-90462052	3.83

Cnga4	0	0	0	6	0.1	0.025839	0.513934	Unclassified	chr7:112551081-112557252	4.172
Gdf3	0	0	0	8	0.133333	0.048616	1.269896	Unclassified	chr6:122555420-122562089	4.67
Olf1158	0	0	0	1	0.016667	0	1	Unclassified	chr2:87828269-87831211	0.943
Olf38	0	0	0	2	0.033333	0.040271	1	Unclassified	chr6:42710052-42713006	0.955
Slc4a1ap	0	0	0	432	7.2	15.8187	18.71355	Unclassified	chr5:31827367-31856411	27.045
Atxn10	0	0	0	1266	21.1	14.848	36.87723	Unclassified	chr15:85164810-85294266	127.457
Irf6	0	0	0	107	1.783333	0.164624	0.608014	Unclassified	chr1:194977305-194998229	18.925
Ggt1	0	0	0	30	0.5	0.152123	0.61669	Unclassified	chr10:75034337-75048927	12.591
Nhlh1	0	0	0	10	0.166667	0.329813	0.38086	Unclassified	chr1:173982422-173989727	5.306
Lsr	0	0	0	293	4.883333	3.08527	1.058628	Elongating	chr7:31742790-31760488	15.699
Acrbp	0	0	0	97	1.616667	2.48289	3.07126	Unclassified	chr6:124997944-125013283	13.34
Ggpps1	0	0	0	482	8.033333	4.5713	35.34446	Unclassified	chr13:14144713-14157668	10.956
Pdlim1	0	0	0	422	7.033333	21.6296	9.338138	Unclassified	chr19:40296728-40348106	49.379
Acsn3	0	0	0	67	1.116667	0.075374	0	Unclassified	chr7:126902436-126928410	23.975
Mybpc3	0	0	0	304	5.066667	0.160504	6.614444	Unclassified	chr2:90956300-90976673	18.374
Ralgapa2	0	0	0	1497	24.95	3.23594	16.6053	Unclassified	chr2:146067034-146339740	270.707
Saa4	0	0	0	5	0.083333	0.04097	1.918139	Unclassified	chr7:53983368-53989913	4.546
Magee2	0	0	0	7	0.116667	1.33872	5	Unclassified	chrX:102050290-102054606	2.317
Mmp27	0	0	0	9	0.15	0.046436	0	Unclassified	chr9:7569457-7581393	9.937
Khdrbs1	0	0	0	914	15.23333	46.7859	23.47263	Unclassified	chr4:129392102-129421526	27.425
Mybl1	0	0	0	251	4.183333	1.41444	54.08945	Stalled	chr1:9658915-9692290	31.376
Tceb2	0	0	0	555	9.25	57.5175	1.582398	Elongating	chr17:23961706-23968076	4.371
Cuta	0	0	0	319	5.316667	38.7759	9.223589	Unclassified	chr17:27074916-27078413	1.498
Rpp21	0	0	0	221	3.683333	27.0133	19.01232	Stalled	chr17:36392617-36396791	2.175
Rbl2l14	0	0	0	74	1.233333	0.294269	0.365063	Unclassified	chr6:134344346-134388742	42.397
Rbm22	0	0	0	555	9.25	19.626	13.5343	Unclassified	chr18:60718439-60732383	11.945
Duoxa2	0	0	0	10	0.166667	0.386198	0.271867	Unclassified	chr2:122122635-122128621	3.987
Olf624	0	0	0	0	0	0	0	Unclassified	chr7:110818616-110821543	0.928
Olf699	0	0	0	2	0.033333	0	1	Unclassified	chr7:113933562-113936513	0.952
Olf406	0	0	0	2	0.033333	0.029052	2	Unclassified	chr11:74080892-74083864	0.973
Olf917	0	0	0	0	0	0	0	Unclassified	chr9:38472497-38475427	0.931
Hpcal4	0	0	0	37	0.616667	0.181831	3.280025	Unclassified	chr4:122858746-122871942	11.197
Gimap9	0	0	0	276	4.6	10.4236	5.354602	Unclassified	chr6:48624133-48628703	2.571
Tmem221	0	0	0	35	0.583333	0.983307	6.246957	Unclassified	chr8:74078202-74084770	4.569
Fmo4	0	0	0	12	0.2	0	1.277143	Unclassified	chr1:164724013-164744680	18.668
Erb2ip	0	0	0	928	15.46667	6.12044	22.706	Unclassified	chr13:104608865-104712594	101.73
Kcnv1	0	0	0	8	0.133333	0.031357	1.970134	Unclassified	chr15:44937829-44948480	8.652
Olf1241	0	0	0	1	0.016667	0.027125	0	Unclassified	chr2:89322345-89325290	0.946
Anub1	0	0	0	334	5.566667	0.5713	36.09695	Stalled	chr6:116212252-116279644	65.393
Gpr34	0	0	0	6	0.1	0.222834	0.639347	Unclassified	chrX:13207894-13217984	8.091
Grem1	0	0	0	15	0.25	0.046918	0	Unclassified	chr2:113588831-113600805	9.975
Tmem81	0	0	0	64	1.066667	1.57425	0.432506	Unclassified	chr1:134400806-134405216	2.411
Usp47	0	0	0	755	12.58333	9.50314	29.95842	Unclassified	chr7:119165019-119254894	87.876
Map3k7ip3	0	0	0	178	2.966667	1.02181	24.94352	Stalled	chrX:82817360-82879807	60.448
Lrrk2	0	0	0	505	8.416667	3.8237	12.02759	Stalled	chr15:91501654-91646555	142.902
Hras15	0	0	0	22	0.366667	0.073657	0.587827	Unclassified	chr19:7685058-7713728	26.671
Klhl10	0	0	0	244	4.066667	0.178358	1.822777	Unclassified	chr11:100301237-100318338	15.102
Spag16	0	0	0	389	6.483333	0.024114	0.698089	Unclassified	chr1:69871561-70771706	898.146
Oaz2	0	0	0	186	3.1	8.11586	10.42622	Unclassified	chr9:65522354-65538107	13.754
Cald1	0	0	0	72	1.2	0.082584	0.992574	Unclassified	chr6:34657443-34725469	66.027
Ttc39c	0	0	0	296	4.933333	1.12358	10.59638	Stalled	chr18:12800041-12895560	93.52
Dsp	0	0	0	38	0.633333	0.113573	2.364949	Unclassified	chr13:38241162-38290446	47.285
C230055K05Rik	0	0	0	150	2.5	1.10076	7.607973	Unclassified	chr5:105242186-105291087	46.902
Olf447	0	0	0	1	0.016667	0	0	Unclassified	chr6:42859523-42862456	0.934
Lxn	0	0	0	173	2.883333	5.91425	5.899585	Unclassified	chr3:67261920-67269829	5.91
1700009P17Rik	0	0	0	45	0.75	0.359452	0.641262	Unclassified	chr1:173049791-173057098	5.308
Krt72	0	0	0	12	0.2	0.049199	0.526627	Unclassified	chr15:101606990-101618889	9.9
Cdh3	0	0	0	73	1.216667	0.070582	0.384715	Unclassified	chr8:109032790-109080808	46.019
Cdh6	0	0	0	79	1.316667	0.038955	1.285187	Unclassified	chr15:12963954-13105394	139.441
Hhex	0	0	0	435	7.25	8.77228	9.715222	Unclassified	chr19:37507330-37515221	5.892
Cdh9	0	0	0	21	0.35	0	0	Unclassified	chr15:16705855-16786532	78.678
Cdh8	0	0	0	151	2.516667	0.020292	0.724559	Unclassified	chr8:101552668-101942357	387.69
Cdk2	0	0	0	472	7.866667	19.6392	12.6369	Unclassified	chr10:128134994-128144107	7.114
Ckt2	0	0	0	2	0.033333	0.01936	1	Unclassified	chr16:64477636-64480960	1.325
Ii17rb	0	0	0	96	1.6	0.149244	0.461221	Unclassified	chr14:30809353-30824082	12.73
C1s	0	0	0	13	0.216667	0.048405	1.000772	Unclassified	chr6:124480361-124494377	12.017
Arhgap8	0	0	0	114	1.9	0.407137	3.796819	Unclassified	chr15:84548508-84602636	52.129
Kcnmb1	0	0	0	32	0.533333	0.058145	1.11208	Unclassified	chr11:33861012-33873638	10.627
Kcnk7	0	0	0	194	3.233333	0.161134	1.197064	Elongating	chr19:5702475-5707101	2.627
Kcnma1	0	0	0	533	8.883333	0.047454	1.711973	Unclassified	chr14:24117982-24825427	705.446
P2ry13	0	0	0	33	0.55	0.243348	1.772242	Unclassified	chr3:59011813-59016804	2.992
Kcns2	0	0	0	6	0.1	0.029395	1.137683	Unclassified	chr15:34765135-34772092	4.958
Rnd3	0	0	0	40	0.666667	0.94751	4.747459	Unclassified	chr2:50985958-51006631	18.674
Elp3	0	0	0	613	10.21667	13.658	17.61976	Unclassified	chr14:66149292-66213847	62.556
Ttc27	0	0	0	924	15.4	7.90176	26.86618	Unclassified	chr17:75115089-75262910	145.822
Cer1	0	0	0	3	0.05	0.095644	3	Unclassified	chr4:82527654-82533055	3.402
Ces1	0	0	0	14	0.233333	0	0	Unclassified	chr8:95826294-95863104	34.811
Cfc1	0	0	0	19	0.316667	0.148166	0.621528	Unclassified	chr1:34590492-34601156	8.665
Slitrk6	0	0	0	2	0.033333	0.006166	0	Unclassified	chr14:111147799-111156371	6.573
Cfh	0	0	0	22	0.366667	0.022177	0	Unclassified	chr1:141982431-142081988	97.558
Ii17a	0	0	0	6	0.1	0.02189	0	Unclassified	chr1:20718985-20724577	3.593
Nuak2	0	0	0	326	5.433333	5.1087	8.423794	Unclassified	chr1:134210714-134230065	17.352
Ppp1r8	0	0	0	778	12.96667	24.8937	12.66454	Unclassified	chr4:132382839-132401084	16.246
Zfr	0	0	0	991	16.51667	10.9496	27.94842	Unclassified	chr15:12045605-12115205	67.601
Pitpnm3	0	0	0	202	3.366667	0.134585	1.237598	Unclassified	chr11:71861029-71951391	88.363
Gtpbp5	0	0	0	392	6.533333	6.24702	33.46908	Unclassified	chr2:179803297-179820607	15.311

Sgsm1	0	0	0	82	1.366667	0.11236	0.454163	Unclassified	chr5:113672243-113741806	67.564
Myoz3	0	0	0	141	2.35	0.086826	0.108969	Unclassified	chr18:60733372-60753370	17.999
Lcor	0	0	0	85	1.416667	0.593603	0.556584	Unclassified	chr19:41622128-41634271	10.144
Fbxw13	0	0	0	12	0.2	0	0	Unclassified	chr9:109081740-109100489	16.75
Bpil3	0	0	0	12	0.2	0.053818	0.509082	Unclassified	chr2:153724123-153738529	12.407
Cpne2	0	0	0	194	3.233333	1.41924	5.227971	Unclassified	chr8:97054927-97094429	37.503
2310005G13Rik	0	0	0	17	0.283333	0.020894	1.379922	Unclassified	chr16:57037079-57073459	34.381
Commd10	0	0	0	854	14.233333	6.24498	32.31357	Unclassified	chr18:47116529-47247648	129.12
Clic3	0	0	0	78	1.3	1.31487	0.833303	Unclassified	chr2:25310362-25314292	1.931
Foxr2	0	0	0	7	0.116667	0.027966	0.723375	Unclassified	chrX:149551330-149567404	14.075
Pdp2	0	0	0	360	6	5.30421	13.3444	Unclassified	chr8:107113367-107120749	5.383
Tigd2	0	0	0	227	3.783333	7.64443	13.22137	Stalled	chr6:59156863-59162027	3.165
Rab27b	0	0	0	104	1.733333	0.020284	1.225692	Unclassified	chr18:70138784-70303244	162.461
Brca2	0	0	0	571	9.516667	2.37597	77.18317	Stalled	chr5:151323197-151372324	47.128
Spata9	0	0	0	37	0.616667	0.267767	0.470661	Unclassified	chr13:76103186-76136416	31.231
Nhej1	0	0	0	336	5.6	5.21906	78.86425	Stalled	chr1:75013919-75123800	107.882
Dapk1	0	0	0	161	2.683333	0.08492	0.505108	Unclassified	chr13:60701307-60864547	161.241
Clybl	0	0	0	736	12.26667	5.60592	55.49956	Stalled	chr14:122578915-122801454	220.54
Olfr1322	0	0	0	0	0	0	0	Unclassified	chrX:47238645-47241578	0.934
B230380D07Rik	0	0	0	603	10.05	7.32931	22.69594	Unclassified	chr9:70446820-70506981	58.162
Olfr598	0	0	0	0	0	0.077942	0	Unclassified	chr7:110475001-110477961	0.961
Olfr1382	0	0	0	1	0.016667	0.027774	1	Unclassified	chr11:49346688-49349624	0.937
Olfr193	0	0	0	0	0	0.01945	0	Unclassified	chr16:59109504-59112434	0.931
Enho	0	0	0	14	0.233333	0.215832	1.79845	Unclassified	chr4:41585176-41589335	2.16
Timd4	0	0	0	25	0.416667	0.058926	0.596597	Unclassified	chr11:46622300-46657835	33.536
Rab22a	0	0	0	800	13.333333	12.029	12.27105	Unclassified	chr2:173483345-173527683	42.339
Cps1	0	0	0	55	0.916667	0.076288	0.663308	Unclassified	chr1:67167639-67277022	107.384
Pvr14	0	36.92194	0	91	1.516667	0.955703	0.488489	Unclassified	chr1:173298303-173318418	18.116
Slc45a3	0	0	0	26	0.433333	0.080582	0.321209	Unclassified	chr1:133865185-133879541	12.357
Defa22	0	0	0	0	0	0	0	Unclassified	chr8:22299955-22302924	0.97
Top2b	0	0	0	654	10.9	15.7817	37.58876	Stalled	chr14:17195719-17263301	65.583
Top3b	0	0	0	593	9.883333	10.7008	11.54383	Unclassified	chr16:16868983-16893079	22.097
Gulp1	0	0	0	87	1.45	0.017226	1.492614	Unclassified	chr1:44606515-44853681	245.167
Morf412	0	0	0	371	6.183333	45.3411	14.68631	Unclassified	chrX:133267489-133278148	8.66
Ssca1	0	0	0	239	3.983333	28.3213	7.998861	Unclassified	chr19:5730305-5733721	1.417
Rbm12	0	0	0	730	12.16667	0	10.12142	Unclassified	chr2:155920617-155939701	17.085
Rnf222	0	0	0	10	0.166667	0.080666	0.405823	Unclassified	chr11:68700054-68708517	6.464
Lipt1	0	0	0	79	1.316667	1.7631	7.422015	Unclassified	chr1:37927050-37933143	4.094
Frem2	0	0	0	129	2.15	0.065358	1.597706	Unclassified	chr3:53317859-53463277	143.419
Abpb	0	0	0	2	0.033333	0	0	Unclassified	chr7:34796950-34800961	2.012
Hoxc8	0	0	0	5	0.083333	0.140779	2.192463	Unclassified	chr15:102818969-102824683	3.715
Gabbr3	0	0	0	69	1.15	0.061617	0	Unclassified	chr16:59405207-59461565	54.359
Igsf9b	0	0	0	42	0.7	0.03999	2.413926	Unclassified	chr9:27104812-27142348	35.537
Dopey1	0	0	0	500	8.333333	1.53092	27.95826	Stalled	chr9:86358760-86449413	88.654
Gm813	0	0	0	3	0.05	0	0	Unclassified	chr16:58613798-58619091	3.294
Rbm44	0	0	0	68	1.133333	0.375977	16.25378	Stalled	chr1:93039679-93067372	25.694
Ssxb2	0	0	0	2	0.033333	0.002844	0	Unclassified	chrX:8031470-8040852	7.383
Lancl3	0	0	0	88	1.466667	0.343294	4.373387	Unclassified	chrX:8775098-8845211	68.114
Ssxb9	0	0	0	0	0	0	0	Unclassified	chrX:7942103-7952514	8.412
Gm13101	0	0	0	1	0.016667	0.013034	0	Unclassified	chr4:143554422-143558853	2.432
E2f7	0	0	0	404	6.733333	2.20295	13.97334	Unclassified	chr10:110180520-110224440	41.921
Blvra	0	0	0	321	5.35	8.53144	34.9486	Stalled	chr2:126894392-126922820	26.429
Ltc4s	0	0	0	80	1.333333	5.36193	0.103043	Unclassified	chr11:50049973-50053973	2.001
Tmie	0	0	0	41	0.683333	0.231399	3.494944	Unclassified	chr9:110768549-110784587	14.039
Lrtm2	0	0	0	31	0.516667	0.187335	0.359637	Unclassified	chr6:119265150-119282751	15.602
Sf3b1	0	0	0	1260	21	28.4385	24.03272	Unclassified	chr1:55042012-55086322	42.311
Sptlc2	0	0	0	552	9.2	6.03527	30.9082	Stalled	chr12:88648838-88731180	80.343
Bok	0	0	0	42	0.7	0.474347	0.662527	Unclassified	chr1:95580270-95592339	10.07
Scyl3	0	0	0	624	10.4	5.38692	12.53259	Unclassified	chr1:165858194-165885257	25.064
Gcc2	0	0	0	306	5.1	2.08028	45.46701	Stalled	chr10:57716273-57768340	50.068
Tbc1d13	0	0	0	528	8.8	6.5992	24.35047	Unclassified	chr2:29987390-30007533	18.144
Rnf126	0	0	0	520	8.666667	33.2013	5.287559	Unclassified	chr10:79221259-79231666	8.408
Zfp867	0	0	0	178	2.966667	1.83295	16.19486	Stalled	chr11:59274698-59287976	11.279
2510049J12Rik	0	0	0	23	0.383333	0.337942	0.573008	Unclassified	chr6:115533564-115544594	9.031
Topbp1	0	0	0	1514	25.233333	22.0348	19.52899	Unclassified	chr9:103205656-103252757	45.102
Slc25a12	0	0	0	669	11.15	9.85234	29.66483	Unclassified	chr2:71112351-71207611	93.261
Calcb	0	0	0	7	0.116667	0.093258	0.482134	Unclassified	chr7:121860156-121866879	4.724
Oaz3	0	0	0	4	0.066667	0	1.101527	Unclassified	chr3:94237087-94242538	3.452
Tmem18	0	0	0	260	4.333333	5.94805	18.48079	Stalled	chr12:31267307-31276084	6.778
V1rc23	0	0	0	0	0	0	0	Unclassified	chr6:57850075-57852984	0.91
Igfbp5	0	0	0	29	0.483333	0.13677	1.628988	Unclassified	chr1:72904638-72923439	16.802
Slc22a2	0	0	0	31	0.516667	0.017984	0	Unclassified	chr17:12775054-12821354	44.301
Vps37a	0	0	0	488	8.133333	2.76367	54.23371	Stalled	chr8:41595136-41636488	39.353
Zfp821	0	0	0	292	4.866667	5.48513	6.845498	Unclassified	chr8:112227987-112248832	18.846
Slc1a1	0	0	0	110	1.833333	0.476887	8.24712	Unclassified	chr19:28907655-28988450	78.796
Slc1a6	0	0	0	23	0.383333	0.1077	0.624519	Unclassified	chr10:78241246-78277510	34.265
Slc1a3	0	0	0	74	1.233333	0.591344	0.512469	Unclassified	chr15:8584125-8662807	76.683
Slc22a1	0	0	0	30	0.5	0.09646	0.96229	Unclassified	chr17:12841740-12870704	26.965
Gng5	0	0	0	446	7.433333	16.0592	6.393648	Unclassified	chr3:146160799-146168507	5.709
Trpv5	0	0	0	11	0.183333	0.019717	0.749687	Unclassified	chr6:41602768-41632722	27.955
Moxd2	0	0	0	7	0.116667	0.013781	0.562108	Unclassified	chr6:40828792-40839493	8.702
Rfesd	0	0	0	525	8.75	9.05838	88.23224	Stalled	chr13:76138982-76158010	17.029
Myh14	0	0	0	151	2.516667	0.149769	0.855945	Unclassified	chr7:51861189-51922873	59.685
Barx2	0	0	0	73	1.216667	0.193211	0.986912	Unclassified	chr9:31653628-31722870	67.243
Pcolce	0	0	0	62	1.033333	0.332877	1.032964	Unclassified	chr5:138046334-138054632	6.299
Miki	0	0	0	261	4.35	4.53315	8.034391	Unclassified	chr8:113835699-113863803	26.105

Btnl7	0	0	0	11	0.183333	0.136811	0.604656	Unclassified	chr17:34669821-34686585	14.765
Pgap2	0	0	0	376	6.266667	6.26587	2.00873	Elongating	chr7:109369587-109386265	14.679
Nbeal1	0	0	0	337	5.616667	0.310082	65.7255	Stalled	chr1:60235442-60391549	154.108
VepH1	0	0	0	160	2.666667	0.04984	1.208006	Unclassified	chr3:65858749-66102741	241.993
Rabl5	0	0	0	61	1.016667	11.1394	3.465313	Unclassified	chr5:137382019-137389114	5.096
Gclm	0	0	0	372	6.2	11.8553	23.49184	Unclassified	chr3:121946509-121969566	21.058
V1re2	0	0	0	1	0.016667	0	1	Unclassified	chr17:20822471-20825368	0.898
V1re1	0	0	0	0	0	0.041747	0	Unclassified	chr17:20949458-20952379	0.922
V1re4	0	0	0	1	0.016667	0	1	Unclassified	chr17:21050170-21053327	1.158
V1re3	0	0	0	2	0.033333	0	0	Unclassified	chr17:20913022-20916465	1.444
V1re6	0	0	0	1	0.016667	0.024959	0	Unclassified	chr17:20870063-20873090	1.028
V1re5	0	0	0	0	0	0.028576	0	Unclassified	chr17:20637262-20640159	0.898
Paip1	0	0	0	488	8.133333	3.64558	16.76348	Unclassified	chr13:120215406-120249127	31.722
Tnfrsf23	0	0	0	90	1.5	0.787397	32.3597	Stalled	chr7:150851711-150873777	20.067
Ffar2	0	0	0	74	1.233333	6.43537	0.318352	Unclassified	chr7:31603375-31610794	5.42
Praf2	0	0	0	125	2.083333	6.9483	20.53403	Stalled	chrX:7303696-7308189	2.494
Wdr45	0	0	0	137	2.283333	6.53781	7.858443	Unclassified	chrX:7297374-7305327	5.954
Fpr1	0	0	0	6	0.1	0.174372	0.617956	Unclassified	chr17:18013434-18022903	7.47
Magix	0	0	0	132	2.2	0.544305	0.050575	Unclassified	chrX:7250291-7260215	7.925
Fpr3	0	0	0	0	0	0	0	Unclassified	chr17:18105421-18108641	1.221
Fxn	0	0	0	448	7.466667	9.57859	17.42619	Unclassified	chr19:24335942-24357076	19.135
Prickle3	0	0	0	267	4.45	3.90713	0.375333	Unclassified	chrX:7233658-7245312	9.655
Obp1a	0	0	0	2	0.033333	0	0.829671	Unclassified	chrX:75330843-75338713	5.871
Senp1	0	0	0	1074	17.9	4.96106	26.98586	Unclassified	chr15:97871659-97925836	52.178
Ccdc22	0	0	0	72	1.2	0	2.628078	Unclassified	chrX:7170934-7184546	11.613
Lin54	0	0	0	817	13.61667	3.52303	5.07862	Unclassified	chr5:100871057-100931658	58.602
Sdc2	0	0	0	50	0.833333	0.021263	0.697531	Unclassified	chr15:32848477-32964476	114
4933407P14Rik	0	0	0	15	0.25	0.167356	1.19648	Unclassified	chr11:104045640-104052480	4.841
Trfr2	0	0	0	53	0.883333	0.451034	3.230541	Unclassified	chr5:138009078-138028709	17.632
Mael	0	0	0	12	0.2	0.03316	0.767741	Unclassified	chr1:168131515-168170875	37.361
Wee2	0	0	0	24	0.4	0.057731	1.044456	Unclassified	chr6:40390861-40416814	23.954
Olf1097	0	0	0	1	0.016667	0.041952	0	Unclassified	chr2:86730383-86734320	1.938
Atp7b	0	0	0	315	5.25	0.718064	3.725824	Unclassified	chr8:23104819-23172546	65.728
Gm11541	0	0	0	91	1.516667	0.030497	0.281335	Unclassified	chr11:94555811-94567813	10.003
Adam26a	0	0	0	0	0	0.003625	0	Unclassified	chr8:44653629-44664061	8.433
Slc4a11	0	0	0	173	2.883333	0.300289	1.46114	Elongating	chr2:130509843-130525255	13.413
Marcks1	0	0	0	488	8.133333	99.3031	4.315929	Unclassified	chr4:129188824-129193225	2.402
Kif6	0	0	0	308	5.133333	0.23966	1.474092	Unclassified	chr17:49752496-50049172	294.677
Itpril2	0	0	0	54	0.9	0.591689	6.34912	Unclassified	chr7:125628625-125637489	6.865
Casc4	0	0	0	362	6.033333	2.85917	50.26091	Stalled	chr2:121690705-121761943	69.239
V1rc29	0	0	0	0	0	0.019834	0	Unclassified	chr6:57272717-57275629	0.913
Abpz	0	0	0	5	0.083333	0	0.269006	Unclassified	chr7:34522211-34526314	2.104
Slc1a7	0	0	0	83	1.383333	0.034154	1.067586	Unclassified	chr4:107638938-107686134	45.197
Cdcp2	0	0	0	18	0.3	0.009817	0	Unclassified	chr4:106767495-106780353	10.859
Aard	0	0	0	4	0.066667	0.123335	0.697794	Unclassified	chr15:51869652-51877269	5.618
Serpine2	0	0	0	81	1.35	0.918438	3.744146	Unclassified	chr1:79790898-79857240	64.343
Tm4sf4	0	0	0	12	0.2	0.036802	0.604149	Unclassified	chr3:57227331-57245592	16.262
Taar7d	0	0	0	3	0.05	0.014348	0	Unclassified	chr10:23745027-23748104	1.078
Taar7f	0	0	0	0	0	0.0119	0	Unclassified	chr10:23767315-23770392	1.078
Slc26a8	0	0	0	69	1.15	0.40051	0.816482	Unclassified	chr17:28786610-28828932	40.323
Tm9sf3	0	0	0	1407	23.45	17.4391	20.0168	Unclassified	chr19:41285331-41340494	53.164
Olf1098	0	0	0	1	0.016667	0	0	Unclassified	chr2:86762739-86765687	0.949
Slc44a1	0	0	0	560	9.333333	2.24197	59.00711	Stalled	chr4:53451284-53635350	182.067
Lgi4	0	0	0	28	0.466667	0.059542	0.322624	Unclassified	chr7:31842953-31855954	11.002
Popdc3	0	0	0	13	0.216667	0.096936	0.701098	Unclassified	chr10:45007110-45038256	29.147
Olf10	0	0	0	0	0	0.016476	0	Unclassified	chr11:49129049-49131985	0.937
Gap43	0	0	0	71	1.183333	0.226576	1.145149	Unclassified	chr16:42248673-42342764	92.092
Mfsd8	0	0	0	451	7.516667	2.00918	6.251712	Unclassified	chr3:40622093-40652776	28.684
Ggt7	0	0	0	44	0.733333	0.250338	3.266931	Unclassified	chr2:155316115-155342582	24.468
Shq1	0	0	0	593	9.883333	7.74686	25.8342	Stalled	chr6:100523075-100623151	98.077
Lamp3	0	0	0	22	0.366667	0.733435	2.971223	Unclassified	chr16:19653473-19708458	52.986
Spink11	0	0	0	2	0.033333	0	0	Unclassified	chr18:44349698-44357831	6.134
Spink6	0	0	0	3	0.05	0.087334	0	Unclassified	chr18:44229046-44243264	12.219
Rpl17	0	0	0	751	12.51667	0	4.064348	Unclassified	chr18:75158130-75163035	2.906
Grxcr2	0	0	0	11	0.183333	0.022886	0.542334	Unclassified	chr18:42145854-42160703	12.85
Ube2a	0	0	0	283	4.716667	10.1803	23.13503	Unclassified	chrX:34412360-34424215	9.856
4930415L06Rik	0	0	0	0	0	0	0	Unclassified	chrX:87175435-87180190	2.756
Uba1	0	0	0	516	8.6	79.2517	7.312644	Unclassified	chrX:20238080-20260305	20.226
Uba3	0	0	0	322	5.366667	9.48579	18.12387	Unclassified	chr6:97133809-97157636	21.828
Nae1	0	0	0	297	4.95	4.89621	25.93042	Stalled	chr8:107034929-107060537	23.609
Ocln	0	0	0	47	0.783333	0.108409	1.126211	Unclassified	chr13:101267321-101324453	55.133
Enpep	0	0	0	59	0.983333	0.173605	0	Unclassified	chr3:128972094-129037667	63.574
Krt26	0	0	0	13	0.216667	0	1.376887	Unclassified	chr11:99189797-99201279	9.483
Kpna7	0	0	0	26	0.433333	0.057012	0	Unclassified	chr5:145744612-145772505	25.894
Zfp418	0	0	0	33	0.55	1.89819	5.165621	Unclassified	chr7:7122063-7136271	12.209
Zfp772	0	0	0	8	0.133333	2.431	0.534089	Unclassified	chr7:7154832-7164709	7.878
Enam	0	0	0	22	0.366667	0.065366	0	Unclassified	chr5:88914999-88935074	18.076
5730403M16Rik	0	0	0	138	2.3	7.06046	9.371968	Unclassified	chr7:7067393-7076187	6.795
Enc1	0	0	0	219	3.65	1.1892	24.63227	Stalled	chr13:98009059-98022994	11.936
Wnk4	0	0	0	298	4.966667	0.58398	11.79323	Unclassified	chr11:101119880-101138723	16.844
BC080695	0	0	0	1	0.016667	0	0	Unclassified	chr4:143155369-143163701	6.333
Cyp4a29	0	0	0	7	0.116667	0.108857	0.656652	Unclassified	chr4:114912688-114927162	12.475
Olf1234	0	0	0	4	0.066667	0	3	Unclassified	chr15:98325904-98328837	0.934
Fam164c	0	0	0	109	1.816667	0.171571	1.439879	Unclassified	chr12:86627540-86640308	10.769
Cd226	0	0	0	35	0.583333	0.036073	0.678948	Unclassified	chr18:89364818-89439719	72.902
Gm13109	0	0	0	1	0.016667	0	0	Unclassified	chr4:143538484-143542919	2.436

2210016L21Rik	0	0	0	234	3.9	23.2005	7.924528	Unclassified	chr5:115390210-115398549	6.34
Zmat2	0	0	0	279	4.65	35.1354	9.938294	Unclassified	chr18:36951576-36959314	5.739
Gm11563	0	0	0	2	0.033333	0	2	Unclassified	chr11:99519255-99522273	1.019
Casp12	0	0	0	4	0.066667	0.0246	0.898512	Unclassified	chr9:5343475-5373034	27.56
Tlr11	0	0	0	1	0.016667	0.016213	0	Unclassified	chr14:50978176-50983338	3.163
Olfr97	0	0	0	0	0	0.191987	0	Unclassified	chr17:37368380-37371313	0.934
Nefm	0	0	0	6	0.1	0.126973	0	Unclassified	chr14:68737601-68745061	5.461
Grasp	0	0	0	185	3.083333	2.90711	12.90159	Stalled	chr15:101052637-101063187	8.551
Tepp	0	0	0	18	0.3	0.529344	0	Unclassified	chr8:97833414-97845228	9.815
Lypla1	0	0	0	66	1.1	2.67357	22.16363	Stalled	chr1:187911610-187943189	29.58
Zbtb20	0	0	0	4302	71.7	2.70861	0.079426	Unclassified	chr16:43245396-43619223	371.828
Polr2l	0	0	0	224	3.733333	17.6922	4.371744	Unclassified	chr7:148657758-148663052	3.295
Gosr2	0	0	0	804	13.4	20.4673	14.73108	Unclassified	chr11:103538163-103561024	20.862
Tspan6	0	0	0	10	0.166667	0.748164	6.049042	Unclassified	chrX:130425608-130434968	7.361
Olfr323	0	0	0	1	0.016667	0.026371	0	Unclassified	chr11:58438574-58441546	0.973
Olfr918	0	0	0	0	0	0.052356	0	Unclassified	chr9:38480088-38483066	0.979
Olfr368	0	0	0	3	0.05	0.052099	2	Unclassified	chr2:37185268-37188252	0.985
Olfr654	0	0	0	1	0.016667	0.049966	1	Unclassified	chr7:111734268-111737294	1.027
Fam176b	0	0	0	46	0.766667	7.8228	0.501892	Unclassified	chr4:125823246-125827118	1.873
Olfr794	0	0	0	0	0	0	0	Unclassified	chr10:129005712-129008675	0.964
Olfr127	0	0	0	0	0	0.010848	0	Unclassified	chr17:38038492-38041464	0.973
Olfr1255	0	0	0	2	0.033333	0.044003	0	Unclassified	chr2:89654484-89657417	0.934
Olfr1284	0	0	0	0	0	0	0	Unclassified	chr2:111217158-111220094	0.937
Olfr593	0	0	0	0	0	0	0	Unclassified	chr7:110358375-110361359	0.985
Adh7	0	0	0	20	0.333333	0	0.424387	Unclassified	chr3:137878736-137895006	14.271
Lilrb3	0	0	0	37	0.616667	1.87349	0.884668	Unclassified	chr7:3664106-3673984	7.879
Nfyc	0	0	0	1342	22.36667	8.23182	29.43135	Unclassified	chr4:120430039-120500320	68.282
C330005M16Rik	0	0	0	28	0.466667	0.073312	2.521406	Unclassified	chr7:29392655-29418034	23.38
B3gat2	0	0	0	162	2.7	0.954458	1.057559	Unclassified	chr1:23766764-23854697	85.934
Ripply2	0	0	0	8	0.133333	0.051061	3.141609	Unclassified	chr9:86908371-86914751	4.381
Omt2b	0	0	0	0	0	0.052229	0	Unclassified	chr9:78173836-78177427	1.592
Tra2a	0	0	0	631	10.51667	28.5331	20.58002	Unclassified	chr6:49193919-49216051	20.133
Slc10a5	0	0	0	11	0.183333	0.07514	0.369006	Unclassified	chr3:10331733-10337656	3.924
Ii1a	0	0	0	17	0.283333	0.129851	0.384338	Unclassified	chr2:129125345-129137708	10.364
Ifitm6	0	0	0	2	0.033333	0.04738	2	Unclassified	chr7:148201710-148204791	1.082
Ngf	0	0	0	67	1.116667	0.036273	0.909953	Unclassified	chr3:102271850-102324936	51.087
Olfr1273	0	0	0	0	0	0	0	Unclassified	chr2:90136092-90139016	0.925
Olfr1262	0	0	0	0	0	0.034967	0	Unclassified	chr2:89840564-89843479	0.916
Clvs2	0	0	0	34	0.566667	0.030759	0.771259	Unclassified	chr10:33232139-33346406	112.268
Mrps10	0	0	0	440	7.333333	18.9685	6.7422	Unclassified	chr17:47503835-47515627	9.793
Fgf23	0	0	0	72	1.2	2.52817	0.096867	Unclassified	chr6:127020919-127031426	8.508
Mrps22	0	0	0	413	6.883333	8.39835	5.953551	Unclassified	chr9:98489151-98504098	12.948
Olfr145	0	0	0	3	0.05	0.061799	2	Unclassified	chr9:37702990-37705923	0.934
Olfr1242	0	0	0	2	0.033333	0	1	Unclassified	chr2:89333546-89336467	0.922
Arhgef7	0	0	0	1405	23.41667	8.43375	26.32867	Unclassified	chr8:11756329-11835217	76.889
Matn2	0	0	0	216	3.6	0.2368	1.135828	Unclassified	chr15:34234435-34366595	129.561
Matn4	0	0	0	36	0.6	0.736031	0.953662	Unclassified	chr2:164215134-164232114	14.981
Olfr1231	0	0	0	2	0.033333	0.027211	0	Unclassified	chr2:89142806-89145747	0.942
Ogfr1	0	0	0	136	2.266667	2.68084	10.35032	Stalled	chr1:23373262-23392014	16.753
Tmprss3	0	0	0	17	0.283333	0.025758	0.538234	Unclassified	chr17:31316211-31336694	18.484
Trim29	0	0	0	50	0.833333	0.045287	0.332097	Unclassified	chr9:43116845-43144208	25.364
Phf11	0	0	0	64	1.066667	2.40028	7.002191	Unclassified	chr14:59895751-59918359	20.609
Alb	0	0	0	11	0.183333	0.05646	1.241019	Unclassified	chr5:90887914-90905629	15.716
Defb3	0	0	0	1	0.016667	0	0	Unclassified	chr8:19291360-19295339	1.98
Sytl4	0	0	0	18	0.3	0.034416	0	Unclassified	chrX:130470923-130518322	45.4
Zdhhc20	0	0	0	708	11.8	5.71537	17.72718	Unclassified	chr14:58451538-58511099	57.562
Insl6	0	0	0	59	0.983333	7.59108	3.655241	Unclassified	chr19:29395843-29401808	3.966
Mterf	0	0	0	15	0.25	1.29234	0.381091	Unclassified	chr5:3890580-3895933	3.354
Sox2	0	0	0	7	0.116667	0.062621	0.653803	Unclassified	chr3:34546926-34551382	2.457
Ttc21b	0	0	0	213	3.55	1.85295	31.75908	Stalled	chr2:66022385-66096674	72.29
Gm2012	0	0	0	20	0.333333	0	0	Unclassified	chrX:25628008-26364795	734.788
Mtap7	0	0	0	430	7.166667	3.90188	2.430844	Unclassified	chr10:19866725-20001396	132.672
Snx4	0	0	0	540	9	10.6821	21.14471	Unclassified	chr16:33249541-33299648	48.108
Arhgap6	0	0	0	219	3.65	1.83414	0.700829	Unclassified	chrX:165231030-165742367	509.338
Maneal	0	0	0	355	5.916667	0.272588	0.102921	Unclassified	chr4:124532482-124541415	6.934
Commd7	0	0	0	295	4.916667	6.56773	22.35529	Unclassified	chr2:153444569-153460467	13.899
1810030007Rik	0	0	0	310	5.166667	7.57362	21.61234	Unclassified	chrX:12232009-12252672	18.664
Sox4	0	0	0	34	0.566667	3.2816	3.389264	Unclassified	chr13:29042598-29047551	2.954
Dpp8	0	0	0	957	15.95	9.89472	19.88779	Unclassified	chr9:64878264-64930458	50.195
Mr1	0	0	0	81	1.35	2.70192	2.422602	Unclassified	chr1:156975007-156995910	18.904
Mudeng	0	0	0	372	6.2	3.75877	52.71597	Stalled	chr14:49684169-49707398	21.23
4932438H23Rik	0	0	0	28	0.466667	0.133702	0.353427	Unclassified	chr16:91054179-91071390	15.212
Rif1	0	0	0	634	10.56667	3.81033	9.488745	Unclassified	chr2:51926356-51977901	49.546
Gprn3	0	0	0	214	3.566667	0.429852	8.965382	Unclassified	chr6:59302454-59378284	73.831
Gm5936	0	0	0	3	0.05	0.012132	0	Unclassified	chrX:72080534-72088694	6.161
Olfr381	0	0	0	1	0.016667	0.030202	1	Unclassified	chr11:73299388-73302324	0.937
Olfr385	0	0	0	1	0.016667	0	1	Unclassified	chr11:73402299-73405238	0.94
Olfr378	0	0	0	1	0.016667	0.013562	1	Unclassified	chr11:73238538-73241483	0.946
Olfr532	0	0	0	0	0	0.034403	0	Unclassified	chr7:147604740-147607670	0.931
Snora74a	0	0	0	194	3.233333	2.911	123	Unclassified	chr18:35714683-35716881	0.199
Vwa3a	0	0	0	97	1.616667	0.050436	4.999371	Unclassified	chr7:127881070-127949054	65.985
Amacr	0	0	0	298	4.966667	3.56714	70.07254	Stalled	chr15:10909510-10926379	14.87
Sh3bgrl	0	0	0	262	4.366667	7.90965	11.12625	Stalled	chrX:106288745-106357806	67.062
Tax1bp1	0	0	0	627	10.45	12.2284	28.59958	Unclassified	chr6:52661722-52716771	53.05
Tdo2	0	0	0	42	0.7	0.117725	1.55937	Unclassified	chr3:81762335-81781650	17.316
Olfr1057	0	0	0	1	0.016667	0.040909	1	Unclassified	chr2:86214619-86217567	0.949

Melk	0	0	0	599	9.983333	7.12861	11.05331	Unclassified	chr4:44311788-44377547	63.76
Ccny11	0	0	0	422	7.033333	0.715222	44.73587	Stalled	chr1:64735918-64772216	34.299
Gab1	0	0	0	131	2.183333	0.60915	2.875612	Unclassified	chr8:83288332-83406378	116.047
Ssr1	0	0	0	1154	19.233333	13.1795	7.836333	Unclassified	chr13:38063269-38088059	22.791
Lgr4	0	0	0	125	2.083333	0.848512	22.32246	Stalled	chr2:109755803-109854414	96.612
Hyal2	0	0	0	107	1.783333	4.10903	7.253269	Unclassified	chr9:107469493-107475109	3.617
Ccdc108	0	0	0	45	0.75	0.066119	2.273528	Unclassified	chr1:74948653-74984173	33.521
Gm7276	0	0	0	12	0.2	0.742689	0.53937	Unclassified	chr18:77423007-77427102	2.096
Rhoc4f	0	0	0	1	0.016667	0	1	Unclassified	chrX:35017401-35024193	4.793
Cav1	0	0	0	31	0.516667	0.082453	2.265395	Unclassified	chr6:17254369-17291324	34.956
Ctnna1	0	0	0	423	7.05	4.69704	15.67993	Stalled	chr18:35276565-35414429	135.865
5730507C01Rik	0	0	0	9	0.15	0	0.797628	Unclassified	chr12:18519351-18542057	20.707
Ctnna2	0	0	0	522	8.7	0.064307	0.678423	Unclassified	chr6:76831630-77931661	1098.032
Boll	0	0	0	89	1.483333	0.357195	18.38502	Stalled	chr1:55356912-55422313	63.402
Cyp4f14	0	0	0	14	0.233333	0.153739	1.000454	Unclassified	chr17:33042014-33056023	12.01
Csta	0	0	0	10	0.166667	0.009386	0	Unclassified	chr16:36120031-36133275	11.245
Gm11428	0	0	0	7	0.116667	0.546538	0.864769	Unclassified	chr11:83515557-83519771	2.215
Ms4a4c	0	0	0	28	0.466667	0.20364	1.831765	Unclassified	chr19:11480150-11501735	19.586
Ms4a8a	0	0	0	16	0.266667	0.059225	0.474356	Unclassified	chr19:11141960-11157593	13.634
Cpt1c	0	0	0	382	6.366667	0.575565	23.5303	Stalled	chr7:52214742-52232144	15.403
Lrrc14b	0	0	0	204	3.4	0.667234	1.219251	Elongating	chr13:74497029-74503448	4.42
Rp11	0	0	0	53	0.883333	0.049248	0.440034	Unclassified	chr14:64609267-64652343	41.077
Cyp3a44	0	0	0	9	0.15	0.035487	0	Unclassified	chr5:146585558-146619450	31.893
Cyp2c70	0	0	0	18	0.3	0.074993	1.345964	Unclassified	chr19:40227850-40263776	33.927
Gm94	0	0	0	11	0.183333	0	0.594879	Unclassified	chr18:43936849-43954532	15.684
Pax3	0	0	0	83	1.383333	0.149104	2.247183	Unclassified	chr1:78097841-78195711	95.871
Prima1	0	0	0	77	1.283333	0	0.367931	Unclassified	chr12:104435117-104482356	45.24
Lpcat2	0	0	0	91	1.516667	0.988561	8.71815	Unclassified	chr8:95377248-95443178	63.931
Stx19	0	0	0	22	0.366667	0	0.844139	Unclassified	chr16:62812501-62822548	8.048
Mrgprf	0	0	0	14	0.233333	0.019167	0.820375	Unclassified	chr7:152484813-152495462	8.65
Mrgprd	0	0	0	9	0.15	0	0.54026	Unclassified	chr7:152498739-152509964	9.226
Nrn1	0	0	0	17	0.283333	0.289271	0.831652	Unclassified	chr13:36817494-36828323	8.83
Gpr177	0	0	0	126	2.1	0	12.32921	Stalled	chr3:159500658-159598042	95.385
G6pc3	0	0	0	302	5.033333	15.236	5.295712	Unclassified	chr11:102049012-102055396	4.385
Fam133b	0	0	0	527	8.783333	6.95722	16.1732	Unclassified	chr5:3541832-3570546	26.715
Dlk1	0	0	0	22	0.366667	1.20769	2.658449	Unclassified	chr12:110689432-110698901	7.47
Zdhhc24	0	0	0	432	7.2	7.15082	7.726347	Unclassified	chr19:4876667-4885396	6.73
Mpp3	0	0	0	52	0.866667	0.139427	1.435338	Unclassified	chr11:101860966-101890269	27.304
Bhlha9	0	0	0	8	0.133333	0.159275	6	Unclassified	chr11:76483971-76487178	1.208
Dlg1	0	0	0	1135	18.91667	5.23865	35.13991	Stalled	chr16:31662124-31873430	209.307
Dkk1	0	0	0	3	0.05	0.045834	0.723298	Unclassified	chr19:30620373-30625986	3.614
38778	0	0	0	931	15.51667	4.45641	44.41798	Stalled	chr18:56921369-57087202	163.834
Slc13a4	0	0	0	73	1.216667	0.044891	1.448579	Unclassified	chr6:35217952-35260126	40.175
Ddit4l	0	0	0	7	0.116667	0.556002	2.356361	Unclassified	chr3:137284635-137291295	4.661
Syt4	0	0	0	10	0.166667	0.055852	0	Unclassified	chr18:31597461-31609069	9.609
Dll1	0	0	0	44	0.733333	3.02358	6.209135	Unclassified	chr17:15504317-15514787	8.471
Dll3	0	0	0	44	0.733333	0.427837	3.588251	Unclassified	chr7:29078573-29088804	8.232
Plekhf2	0	0	0	648	10.8	5.14913	21.68946	Unclassified	chr4:10915809-10936766	18.958
Slc25a18	0	0	0	460	7.666667	0.202621	0.164515	Unclassified	chr6:120721785-120744000	20.216
Mnda	0	0	0	21	0.35	6.77168	2.632656	Unclassified	chr1:175826485-175845053	16.569
Fam54a	0	0	0	340	5.666667	3.18773	20.06745	Unclassified	chr10:20065624-20081475	13.852
Tm4sf1	0	0	0	10	0.166667	0.033692	0	Unclassified	chr3:57090985-57107841	14.857
Nr2c2	0	0	0	279	4.65	6.04645	1.072029	Unclassified	chr6:92086987-92117953	28.967
Olfr1051	0	0	0	0	0	0.013793	0	Unclassified	chr2:86115715-86118642	0.928
Pam	0	0	0	236	3.933333	0.245203	10.07844	Stalled	chr1:99717670-99994209	274.54
Pde6g	0	0	0	23	0.383333	0.242355	1.226415	Unclassified	chr11:120308923-120316797	5.875
Astn1	0	0	0	227	3.783333	0.033941	1.189064	Unclassified	chr1:160290470-160621917	329.448
Gja1	0	0	0	13	0.216667	0.21051	0	Unclassified	chr10:56095105-56110225	13.121
Gip	0	0	0	10	0.166667	0.17773	0	Unclassified	chr11:95883858-95892142	6.285
Pde7a	0	0	0	743	12.38333	6.63148	21.51974	Unclassified	chr3:19125917-19213322	85.406
Tsc22d3	0	0	0	334	5.566667	8.34725	6.398024	Unclassified	chrX:137074067-137079724	3.658
Gif	0	0	0	19	0.316667	0.033463	0.452721	Unclassified	chr19:11820048-11837937	15.89
Ghr	0	0	0	144	2.4	0.064465	3.285595	Unclassified	chr15:3267759-3535230	265.472
Ghrh	0	0	0	165	2.75	0	0	Unclassified	chr2:157155231-157174391	17.161
Nr1h4	0	0	0	43	0.716667	0.032512	0	Unclassified	chr10:88916980-88971403	52.424
Ryk	0	0	0	123	2.05	6.09411	3.591734	Unclassified	chr9:102735249-102810637	73.389
Uimc1	0	0	0	587	9.783333	6.39225	38.50928	Stalled	chr13:55129240-55203656	72.417
Rxbp1	0	0	0	852	14.2	23.6836	12.78788	Unclassified	chr17:34166796-34175344	6.549
Rxrg	0	0	0	41	0.683333	0.048069	0	Unclassified	chr1:169526492-169569755	41.264
Mfsd9	0	0	0	110	1.833333	1.47181	20.48756	Stalled	chr1:40828884-40849502	18.619
Mtmr7	0	0	0	143	2.383333	0.14974	1.132064	Unclassified	chr8:41635512-41722146	84.635
Hectd3	0	0	0	125	2.083333	7.71926	4.26995	Unclassified	chr4:116665952-116677882	9.931
Mtmr3	0	0	0	1191	19.85	17.7974	5.64306	Unclassified	chr11:4380870-4496818	113.949
Crtc3	0	0	0	1228	20.46667	3.85799	11.01828	Unclassified	chr7:87731517-87835763	102.247
Ctsk	0	0	0	60	1	0.190256	5.257867	Unclassified	chr3:95301207-95313284	10.078
Ctsl	0	0	0	47	0.783333	1.69064	14.53452	Stalled	chr13:64464521-64473614	7.094
Pramel1	0	0	0	8	0.133333	0.068284	0.843931	Unclassified	chr4:142982343-142989722	5.38
Ctsg	0	0	0	5	0.083333	0.038372	0.917456	Unclassified	chr14:56718717-56723411	2.695
Ctsb	0	0	0	431	7.183333	12.5199	9.212938	Unclassified	chr14:63739301-63764758	23.458
Osbp18	0	0	0	1592	26.53333	3.62929	42.85928	Unclassified	chr10:110599857-110734303	132.447
Ctsc	0	0	0	754	12.56667	28.2163	28.43693	Unclassified	chr7:95424602-95459385	32.784
Ctsd	0	0	0	210	3.5	39.4465	10.13334	Unclassified	chr7:149561820-149575775	11.956
Susd2	0	0	0	85	1.416667	0.215726	4.695148	Unclassified	chr10:75099363-75108753	7.391
Emilin3	0	0	0	12	0.2	0.043359	0.352145	Unclassified	chr2:160732173-160740064	5.892
Pira3	0	0	0	7	0.116667	0	1.826176	Unclassified	chr7:3859881-3869103	7.223
4933402P03Rik	0	0	0	6	0.1	0.031743	0	Unclassified	chr11:69630067-69633942	1.876

Rbbp7	0	0	0	712	11.86667	52.3123	17.29611	Unclassified	chrX:159196303-159217022	18.72
Olfr360	0	0	0	0	0	0	0	Unclassified	chr2:36921826-36924780	0.955
Olfr541	0	0	0	2	0.033333	0.040947	1	Unclassified	chr7:147888151-147891090	0.94
Mamdc2	0	0	0	181	3.016667	0.372327	1.353678	Unclassified	chr19:23377098-23524812	145.715
Pira6	0	0	0	3	0.05	0.149902	0.882408	Unclassified	chr7:4223744-4234247	8.504
Olfr297	0	0	0	1	0.016667	0	1	Unclassified	chr7:93673268-93676201	0.934
Olfr171	0	0	0	1	0.016667	0.02193	0	Unclassified	chr16:19624249-19627194	0.946
Olfr292	0	0	0	2	0.033333	0	0.858055	Unclassified	chr7:93834850-93843894	7.045
Tuba3a	0	0	0	11	0.183333	0.096035	1.375085	Unclassified	chr6:125228291-125238060	7.77
Ear5	0	0	0	1	0.016667	0.067543	1	Unclassified	chr14:51779934-51782893	0.76
Rdh7	0	0	0	3	0.05	0.008216	0.649553	Unclassified	chr10:127321083-127327789	4.707
Egfl6	0	0	0	30	0.5	0.213605	4.319936	Unclassified	chrX:162960938-163025648	62.711
Nlrx1	0	0	0	181	3.016667	2.53637	8.282221	Unclassified	chr9:44060795-44078574	15.78
Tuba3b	0	0	0	6	0.1	0.072102	0.530296	Unclassified	chr6:145562482-145569997	5.516
Ccdc153	0	0	0	13	0.216667	0.047206	0.891616	Unclassified	chr9:44046759-44055389	6.631
Sbp	0	0	0	3	0.05	0.099056	3	Unclassified	chr17:24076962-24082574	3.613
Serpinb3d	0	0	0	5	0.083333	0	0	Unclassified	chr1:108974769-108982057	5.289
Satb1	0	0	0	4319	71.98333	13.406	6.450299	Unclassified	chr17:51875512-51973972	96.461
Nkx1-2	0	0	0	17	0.283333	0.700419	0.895522	Unclassified	chr7:139787921-139793320	3.4
Wnt2	0	0	0	32	0.533333	0.036358	1.827191	Unclassified	chr6:17938939-17982445	41.507
Sytl2	0	0	0	81	1.35	0.174058	0.875611	Unclassified	chr7:97495208-97558949	61.742
Dnajc3	0	0	0	1001	16.68333	17.7328	21.6124	Unclassified	chr14:119335153-119380924	43.772
Bicc1	0	0	0	211	3.516667	0.04966	1.057834	Unclassified	chr10:70387847-70624382	234.536
Cnrm1	0	0	0	103	1.716667	0.157661	0	Unclassified	chr19:43512925-43571703	56.779
4930548H24Rik	0	0	0	7	0.116667	0.080832	2.336798	Unclassified	chr5:31786231-31790635	2.405
Wnt11	0	0	0	42	0.7	0.188475	2.715743	Unclassified	chr7:105985354-106003257	15.904
Ubap1	0	0	0	670	11.16667	8.41512	13.1877	Unclassified	chr4:41294028-41336799	40.772
Aqp7	0	0	0	34	0.566667	0.101556	0	Unclassified	chr4:40980106-40997169	15.064
0610009O20Rik	0	0	0	611	10.18333	10.6806	29.43947	Unclassified	chr18:38407902-38422283	12.382
Defa21	0	0	0	0	0	0	0	Unclassified	chr8:22163223-22166196	0.974
Synpo2	0	0	0	150	2.5	0.135067	1.04146	Unclassified	chr3:122779438-122941067	159.63
Fam3a	0	0	0	154	2.566667	7.22305	31.27711	Stalled	chrX:71630058-71640478	8.421
Rsph3a	0	0	0	164	2.733333	11.3277	46.84968	Stalled	chr17:8136478-8172421	33.944
Timm50	0	0	0	444	7.4	22.9658	6.242985	Unclassified	chr7:29090844-29099065	6.222
1810030N24Rik	0	0	0	227	3.783333	4.67267	26.61263	Stalled	chr4:34715920-34727586	9.667
Rdbp	0	0	0	258	4.3	27.8249	9.421039	Unclassified	chr17:34985335-34993317	5.983
Polr1b	0	0	0	757	12.61667	11.4023	6.624335	Unclassified	chr2:128924731-128952330	25.6
Vps4a	0	0	0	386	6.433333	10.3436	6.911163	Unclassified	chr8:109553225-109569656	14.432
Fam23a	0	0	0	38	0.633333	0.031533	0	Unclassified	chr2:14094150-14143620	47.471
Bhlhe22	0	0	0	7	0.116667	0.096424	0.844153	Unclassified	chr3:17952324-17957514	3.191
Mgp	0	0	0	7	0.116667	0.149773	1.116761	Unclassified	chr6:136820955-136826326	3.372
Mrps30	0	0	0	227	3.783333	21.2786	10.87448	Unclassified	chr13:119168916-119178059	7.144
Slu7	0	0	0	275	4.583333	7.29853	6.581697	Unclassified	chr11:43245232-43261483	14.252
Evc	0	0	0	66	1.1	0.10108	1.138785	Unclassified	chr5:37690410-37730120	37.711
Sic17a8	0	0	0	62	1.033333	0.017273	0.870386	Unclassified	chr10:89036764-89085994	47.231
Sic5a8	0	0	0	23	0.383333	0.031254	1.338843	Unclassified	chr10:88346736-88392260	43.525
Pamr1	0	0	0	94	1.566667	0.062788	1.005568	Unclassified	chr2:102388177-102483195	93.019
Cd209e	0	0	0	5	0.083333	0.028947	0	Unclassified	chr8:3847972-3856286	6.315
Stx1a	0	0	0	221	3.683333	2.64145	10.98099	Stalled	chr5:135497441-135526969	27.529
Lphn3	0	0	0	349	5.816667	0.059539	0.691452	Unclassified	chr5:81448617-82224755	774.139
4931417E11Rik	0	0	0	1	0.016667	0	1	Unclassified	chr6:73418575-73421661	1.087
Cd200r3	0	0	0	50	0.833333	0.121521	0	Unclassified	chr16:44941790-44981493	37.704
4933400A11Rik	0	0	0	2	0.033333	0	0.693157	Unclassified	chrX:166214309-166219567	3.259
Trpd52i3	0	0	0	3	0.05	0.017234	0	Unclassified	chr19:30076279-30080510	2.232
Col11a1	0	0	0	80	1.333333	0.036996	2.163445	Unclassified	chr3:113731457-113923244	189.788
Col13a1	0	0	0	226	3.766667	0.070711	0.387153	Unclassified	chr10:61301245-61443856	140.612
Cdc45l	0	0	0	1165	19.41667	20.4659	8.395964	Unclassified	chr16:18780539-18814065	31.527
D3Bwg0562e	0	0	0	31	0.516667	0.027029	1.202752	Unclassified	chr3:117022062-117065794	41.733
Coch	0	0	0	85	1.416667	0.29933	0.760412	Unclassified	chr12:52692441-52706760	12.32
Col10a1	0	0	0	78	1.3	0	0.247186	Unclassified	chr10:34107786-34116891	7.106
Hira	0	0	0	1847	30.78333	15.3498	28.99584	Unclassified	chr16:18874842-18970401	93.56
Zfp248	0	0	0	211	3.516667	1.07775	47.63674	Stalled	chr6:118377336-118407524	28.189
Aqp6	0	0	0	8	0.133333	0.062215	1.739794	Unclassified	chr15:99429830-99435908	4.079
Col14a1	0	0	0	259	4.316667	0.059639	2.765597	Unclassified	chr15:55137304-55352357	213.054
Cdgap	0	0	0	328	5.466667	0.905836	15.91201	Stalled	chr16:38598455-38715148	114.694
Tmsb15b1	0	0	0	39	0.65	0	12.2225	Stalled	chrX:133508560-133513413	2.854
Fmod	0	0	0	23	0.383333	0.03138	0	Unclassified	chr1:135932091-135944854	10.764
Gtl3	0	0	0	293	4.883333	17.3579	15.10866	Unclassified	chr8:97944151-97960769	14.619
Nr4a2	0	0	0	147	2.45	0.928194	13.32566	Stalled	chr2:56959637-56978414	16.778
Pnp2	0	0	0	31	0.516667	13.4074	11.45927	Stalled	chr14:51573815-51584424	8.61
Gbp1	0	0	0	192	3.2	8.28716	1.080522	Unclassified	chr3:142255810-142282140	24.331
Agps	0	0	0	841	14.01667	5.33953	24.65417	Unclassified	chr2:75668248-75767706	97.459
Atxn3	0	0	0	356	5.933333	2.33213	14.4639	Unclassified	chr12:103157112-103198453	39.342
Nasp	0	0	0	1063	17.71667	39.7604	13.11066	Unclassified	chr4:116273656-116302102	26.447
Sema5b	0	0	0	174	2.9	0.10971	0.413356	Unclassified	chr16:35539447-35664344	122.898
Pdp1	0	0	0	295	4.916667	0.952475	76.36763	Stalled	chr4:11885331-11895597	8.267
Itpka	0	0	0	187	3.116667	1.79304	23.41459	Stalled	chr2:119566072-119576989	8.918
Crybg3	0	0	0	429	7.15	2.60386	0.914414	Unclassified	chr16:59491921-59557578	63.658
Kcnj2	0	0	0	16	0.266667	0.331635	4.318521	Unclassified	chr11:110925477-110938139	10.663
Kcnj3	0	0	0	77	1.283333	0.0687	0.689102	Unclassified	chr2:55287566-55447936	158.371
Bean	0	0	0	75	1.25	0.202023	0.795826	Unclassified	chr8:106692412-106742995	48.584
Timm8a2	0	0	0	58	0.966667	0.168083	1	Unclassified	chr14:122431895-122437644	3.75
Elov16	0	0	0	1134	18.9	3.55141	6.231525	Unclassified	chr3:129233303-129341411	106.109
Kcnh3	0	0	0	185	3.083333	0.064386	0.256697	Unclassified	chr15:99053406-99073248	17.843
Kcnj12	0	0	0	13	0.216667	0.031221	0.564812	Unclassified	chr11:60877305-60884633	5.329
Trim27	0	0	0	1193	19.88333	39.818	8.895245	Unclassified	chr13:21269827-21284726	12.9

Kcnj16	0	0	0	48	0.8	0.024769	1.123275	Unclassified	chr11:110827346-110889281	59.936
Zfp28	0	0	0	98	1.633333	0.757009	25.8475	Stalled	chr7:6334027-6349347	13.321
Cebpd	0	0	0	61	1.016667	3.40785	6.599366	Unclassified	chr16:15885378-15889638	2.261
Zfp30	0	0	0	29	0.483333	0.26564	1.41435	Unclassified	chr7:30567808-30579559	9.752
Zfp37	0	0	0	42	0.7	0.29364	16.71594	Stalled	chr4:61850576-61871580	19.005
Zscan21	0	0	0	275	4.583333	4.23596	35.32732	Stalled	chr5:138556132-138575487	17.356
Zfp39	0	0	0	353	5.883333	2.24355	12.25757	Unclassified	chr11:58701654-58719727	16.074
Klf14	0	0	0	7	0.116667	0.457418	0.3965	Unclassified	chr6:30906020-30910990	2.971
Cebpa	0	0	0	16	0.266667	0.334837	3.182288	Unclassified	chr7:35902311-35906951	2.641
Tsn	0	0	0	373	6.216667	19.8176	20.06629	Unclassified	chr1:120195094-120209709	12.616
Commd4	0	0	0	126	2.1	27.0295	2.54073	Elongating	chr9:57002847-57008106	3.26
Lrrc8c	0	0	0	1344	22.4	5.57584	18.57936	Unclassified	chr5:105946489-106037973	89.485
Vmn2r26	0	0	0	16	0.266667	0.019951	0	Unclassified	chr6:123972775-124012053	37.279
Noc4l	0	0	0	560	9.333333	20.9747	6.251324	Unclassified	chr5:111077437-111084401	4.965
ORF63	0	0	0	29	0.483333	0.015526	0.611981	Unclassified	chr16:87551574-87595580	42.007
Wapal	0	0	0	668	11.13333	12.3953	26.3164	Unclassified	chr14:35485113-35559403	72.291
V1rc12	0	0	0	0	0	0.017343	0	Unclassified	chr6:66628787-66631678	0.892
Tlr5	0	0	0	38	0.633333	0.116184	1.550614	Unclassified	chr1:184882918-184906175	21.258
Fam5b	0	0	0	67	1.116667	0.087548	1.257105	Unclassified	chr1:160175401-160288391	110.991
Lce1g	0	0	0	2	0.033333	0	0.54317	Unclassified	chr3:92554072-92558260	2.189
Hspa13	0	0	0	112	1.866667	5.2484	10.50502	Stalled	chr16:75755437-75769063	11.627
Pycr1	0	0	0	266	4.433333	18.7988	6.06052	Unclassified	chr15:75746892-75753990	5.099
F7	0	0	0	16	0.266667	0.117265	0	Unclassified	chr8:13024033-13035808	9.776
Svs3b	0	0	0	2	0.033333	0.10227	0	Unclassified	chr2:164080098-164084379	2.282
F3	0	0	0	25	0.416667	0.587529	4.718644	Unclassified	chr3:121424454-121437970	11.517
F5	0	0	0	75	1.25	0.164353	1.962406	Unclassified	chr1:166079989-166150405	68.417
Zc3h14	0	0	0	492	8.2	9.46658	9.980424	Unclassified	chr12:99983177-100025982	40.806
Paqr9	0	0	0	10	0.166667	1.13969	1.580157	Unclassified	chr9:95458235-95462540	2.306
Gm11301	0	0	0	2	0.033333	0.056364	0	Unclassified	chr13:22646069-22648978	0.91
1700026D08Rik	0	0	0	17	0.283333	0.099121	3.014757	Unclassified	chr7:90924127-90945349	19.223
Prss2	0	0	0	8	0.133333	0	0.631075	Unclassified	chr6:41469774-41475078	3.305
Prss3	0	0	0	1	0.016667	0.012985	0	Unclassified	chr6:41323757-41329612	3.856
Efna1	0	0	0	57	0.95	0.976192	8.132863	Unclassified	chr3:89075651-89085567	7.917
Efna2	0	0	0	47	0.783333	0.622883	1.606049	Unclassified	chr10:79640226-79652753	10.528
Dmrt3	0	0	0	18	0.3	0.402186	2.031577	Unclassified	chr19:25683026-25698410	13.385
Adck1	0	0	0	459	7.65	5.3845	20.63908	Stalled	chr12:89597244-89700162	100.919
Gpr126	0	0	0	101	1.683333	0.027583	2.392915	Unclassified	chr10:14122390-14266842	142.453
Stab2	0	0	0	277	4.616667	0.039396	0.376041	Unclassified	chr10:86303954-86472687	166.734
Gsta3	0	0	0	22	0.366667	0.075668	0.533043	Unclassified	chr1:21228669-21255640	24.972
Efna3	0	0	0	30	0.5	0.303407	0.896217	Unclassified	chr3:89118872-89128801	7.93
Hace1	0	0	0	282	4.7	2.13212	26.97586	Stalled	chr10:45295634-45432151	134.518
Olf1047	0	0	0	0	0	0	0	Unclassified	chr2:86068166-86071126	0.961
Lmcd1	0	0	0	64	1.066667	0.490951	0.96253	Unclassified	chr6:112221751-112280416	56.666
F2	0	0	0	91	1.516667	0.019341	0.207959	Unclassified	chr2:91465476-91478571	11.096
Mff	0	0	0	271	4.516667	11.922	14.40339	Unclassified	chr1:82719492-82748964	27.473
Klrg2	0	0	0	347	5.783333	8.1308	1.898056	Elongating	chr6:38576659-38589239	10.581
Zbed3	0	0	0	447	7.45	7.49948	10.58837	Unclassified	chr13:96093191-96107796	12.606
Tspan7	0	0	0	35	0.583333	0.07947	3.123613	Unclassified	chrX:10060241-10173730	111.49
Tmod1	0	0	0	200	3.333333	0.116407	1.410131	Unclassified	chr4:46050093-46128904	76.812
Tmpo	0	0	0	1863	31.05	38.1676	15.58619	Unclassified	chr10:90610315-90636327	24.013
Mpp7	0	0	0	615	10.25	3.15922	65.12416	Stalled	chr18:7347959-7628861	278.903
Gpr123	0	0	0	66	1.1	0.061954	1.636204	Unclassified	chr7:147018072-147063987	43.916
Rab28	0	0	0	287	4.783333	10.4328	26.84817	Stalled	chr5:42016214-42101394	83.181
Scamp5	0	0	0	54	0.9	0.104426	4.693953	Unclassified	chr9:57289133-57317831	26.699
Mmp7	0	0	0	8	0.133333	0	0.473961	Unclassified	chr9:7690110-7699416	7.307
Zbtb33	0	0	0	147	2.45	3.15974	18.63302	Stalled	chrX:35540969-35550223	7.255
Mmp9	0	0	0	23	0.383333	0.43676	1.072814	Unclassified	chr2:164771750-164781346	7.597
Nfx1l	0	0	0	235	3.916667	4.01563	30.53532	Stalled	chr5:72904542-72952884	46.343
Syt9	0	0	0	128	2.133333	0.073889	0.583976	Unclassified	chr7:114512303-114692169	177.867
Olf1404	0	0	0	3	0.05	0	2	Unclassified	chr1:175143783-175146725	0.943
E2f5	0	0	0	308	5.133333	4.24504	21.35355	Unclassified	chr3:14576670-14606309	27.64
Tmem151a	0	0	0	24	0.4	0.201423	1.531725	Unclassified	chr19:5079336-5087477	6.142
Prr19	0	0	0	1	0.016667	0.148681	0	Unclassified	chr7:26084377-26089152	2.776
Rph3a	0	0	0	101	1.683333	0.049664	0.819419	Unclassified	chr5:121390508-121461527	69.02
Olf1689	0	0	0	2	0.033333	0.005474	1	Unclassified	chr7:112460519-112463482	0.964
Rpe65	0	0	0	8	0.133333	0.03477	0	Unclassified	chr3:159260144-159288271	26.128
Sfrs12	0	0	0	324	5.4	7.67308	0.331889	Unclassified	chr13:104531694-104556662	22.969
Nxph3	0	0	0	19	0.316667	0.367405	2.047559	Unclassified	chr11:95371159-95377879	4.721
Ap3b2	0	0	0	46	0.766667	0.309801	1.292024	Unclassified	chr7:88605284-88640811	33.528
Ap3s1	0	0	0	227	3.783333	2.92724	57.95467	Stalled	chr18:46899570-46950480	48.911
Olf1299	0	0	0	3	0.05	0.038573	0.730821	Unclassified	chr2:111499609-111505323	3.715
Ceacam11	0	0	0	5	0.083333	0.050708	0.642474	Unclassified	chr7:18555515-18563905	6.391
Nudcd2	0	0	0	373	6.216667	28.4214	25.36542	Unclassified	chr11:40545143-40553549	6.407
Lum	0	0	0	5	0.083333	0.024706	2.268649	Unclassified	chr10:97026134-97035337	7.204
Cnmn4	0	0	0	448	7.466667	4.70523	35.5405	Stalled	chr1:36526441-36565621	37.181
Sh2d7	0	0	0	12	0.2	0.037162	0.314129	Unclassified	chr9:54384790-54392827	6.038
Recql	0	0	0	788	13.13333	9.12457	20.15802	Unclassified	chr6:142310419-142337607	25.189
Phyhip	0	0	0	27	0.45	0.615644	2.38091	Unclassified	chr14:70855323-70868631	11.309
Dkk4	0	0	0	35	0.583333	0.360886	0.318045	Unclassified	chr8:23732514-23738018	3.505
Gpr75	0	0	0	10	0.166667	0.126347	0.713415	Unclassified	chr11:30789096-30792719	1.624
Spr1a	0	0	0	6	0.1	0.097339	0.634346	Unclassified	chr3:92287875-92291803	1.929
Zfp868	0	0	0	476	7.933333	3.2327	28.68472	Unclassified	chr8:72134552-72151447	14.896
Spr	0	0	0	137	2.283333	12.9641	28.29895	Stalled	chr6:85083673-85089758	4.086
Spp1	0	0	0	6	0.1	0.699899	1.104544	Unclassified	chr5:104862136-104870069	5.934
Spr2b	0	0	0	1	0.016667	0.015084	1	Unclassified	chr3:92118626-92122007	1.382
Spr1b	0	0	0	0	0	0	0	Unclassified	chr3:92240730-92244701	1.972

Txn1	0	0	0	730	12.16667	18.2848	50.38242	Unclassified	chr18:63822454-63854013	29.56
Ddr1	0	0	0	72	1.2	0.194292	0.879686	Unclassified	chr17:35818511-35843084	22.574
Prsm10	0	0	0	77	1.283333	12.0486	18.77705	Stalled	chrX:137482963-137493250	8.288
Prdx4	0	0	0	227	3.783333	44.0739	27.05943	Stalled	chrX:151758462-151774997	14.536
Pilra	0	0	0	24	0.4	0.22864	0.388254	Unclassified	chr5:138263179-138279506	14.328
Cenpi	0	0	0	358	5.966667	1.53045	23.17878	Stalled	chrX:130840701-130897178	54.478
Phipp2	0	0	0	694	11.56667	3.13453	22.24508	Unclassified	chr8:112390502-112468571	76.07
Hydin	0	0	0	314	5.233333	0.029233	1.576645	Unclassified	chr8:112788876-113134153	343.278
AI314831	0	0	0	66	1.1	0.070613	0.882621	Unclassified	chr2:104916694-104968667	49.974
Lrrc17	0	0	0	36	0.6	0.059436	0	Unclassified	chr5:21047344-21081720	32.377
Hecw1	0	0	0	132	2.2	0.077223	0	Unclassified	chr13:14318704-14617493	296.79
Klk10	0	0	0	9	0.15	0.265035	0	Unclassified	chr7:51034423-51040780	4.358
Reln	0	0	0	332	5.533333	0.122646	1.165243	Unclassified	chr5:21390271-21852523	460.253
Rpe	0	0	0	361	6.016667	8.27277	24.0887	Unclassified	chr1:66745466-66766379	18.914
Ate1	0	0	0	832	13.86667	6.35482	46.34657	Stalled	chr7:137535007-137665044	128.038
Slc5a1	0	0	0	54	0.9	0.055426	0.534797	Unclassified	chr5:33444867-33505346	58.48
Gata2	0	0	0	24	0.4	0.193767	1.076878	Unclassified	chr6:88146657-88157024	8.368
Slc4a1	0	0	0	35	0.583333	0.087242	0.347772	Unclassified	chr11:102210133-102228595	16.463
Slc3a1	0	0	0	70	1.166667	0.074203	1.819471	Unclassified	chr17:85425686-85463581	35.896
Slc34a2	0	0	0	33	0.55	0.0773	1.295558	Unclassified	chr5:53438620-53462902	22.283
Slc31a2	0	0	0	932	15.53333	38.3401	2.957796	Elongating	chr4:61945478-61959445	11.968
Akr1a4	0	0	0	605	10.08333	114.483	10.38117	Unclassified	chr4:116309114-116326256	15.143
Jak3	0	0	0	642	10.7	36.5983	1.096226	Elongating	chr8:74200227-74214473	12.247
Slc6a2	0	0	0	52	0.866667	0.037987	0.89418	Unclassified	chr8:95482945-95525566	40.622
Cldn11	0	0	0	26	0.433333	0.214439	1.70181	Unclassified	chr3:31046912-31063240	14.329
Odf4	0	0	0	14	0.233333	0.083223	0.641202	Unclassified	chr11:68735337-68742583	5.247
Atf1	0	0	0	1231	20.51667	12.766	25.18343	Unclassified	chr15:100056289-100091679	33.391
Epb4.9	0	0	0	50	0.833333	0.582119	0	Unclassified	chr14:71003477-71031961	26.485
Tmem102	0	0	0	34	0.566667	0.827814	0.032502	Unclassified	chr11:69617098-69621172	2.075
Zkscan3	0	0	0	293	4.883333	6.15083	9.05362	Unclassified	chr13:21478873-21496624	15.752
Olfr552	0	0	0	6	0.1	0.026869	2	Unclassified	chr7:109750869-109753823	0.955
Cdh13	0	0	0	983	16.38333	0.039177	1.545144	Unclassified	chr8:120805654-121847348	1039.695
Tmcc2	0	0	0	84	1.4	0.394533	2.202282	Unclassified	chr1:134252891-134289858	34.968
4921509C19Rik	0	0	0	2	0.033333	0.023154	0	Unclassified	chr2:151296277-151303887	5.611
Ibsp	0	0	0	7	0.116667	0.032829	0.691053	Unclassified	chr5:104726305-104740488	12.184
Gys2	0	0	0	36	0.6	0.038589	0.592805	Unclassified	chr6:142371132-142423629	50.498
Icam2	0	0	0	134	2.233333	16.3374	1.420867	Elongating	chr11:106238969-106245955	4.987
Pyrrox1	0	0	0	320	5.333333	2.81678	8.077251	Unclassified	chr6:142292216-142311144	16.929
Eri2	0	0	0	179	2.983333	1.36765	32.02093	Stalled	chr7:126927340-126939572	10.233
Tmem211	0	0	0	17	0.283333	0.021045	1.45864	Unclassified	chr5:113653928-113668283	12.356
Ccdc32	0	0	0	183	3.05	5.5981	8.690107	Unclassified	chr2:118843514-118857129	11.616
Pax8	0	0	0	60	1	0.045646	0.490946	Unclassified	chr2:24276079-24333086	55.008
Adam6a	0	0	0	1	0.016667	0.063692	1	Unclassified	chr12:114780118-114784625	2.508
Ankrd50	0	0	0	33	0.55	3.42212	2.592334	Unclassified	chr3:38351000-38356479	3.48
Krt25	0	0	0	5	0.083333	0.127379	0.603921	Unclassified	chr11:99177157-99186255	7.099
Olfr666	0	0	0	0	0	0.036219	0	Unclassified	chr7:112041183-112044140	0.958
Olfr851	0	0	0	0	0	0	0	Unclassified	chr9:19299193-19302132	0.94
Accn3	0	0	0	33	0.55	0.197986	0.971704	Unclassified	chr5:23917268-23923652	4.385
Helz	0	0	0	1380	23	5.92682	9.709069	Unclassified	chr11:107407273-107548257	138.985
Gm13051	0	0	0	2	0.033333	0	0	Unclassified	chr4:146062745-146094024	29.28
1700057G04Rik	0	0	0	27	0.45	0	0	Unclassified	chr9:92202214-92252714	48.501
2310014L17Rik	0	0	0	765	12.75	0.320507	9.267895	Unclassified	chr7:13510764-13516421	3.658
V1rc28	0	0	0	0	0	0.043008	0	Unclassified	chr6:57793557-57796451	0.895
V1rc27	0	0	0	0	0	0	0	Unclassified	chr6:57352457-57355384	0.928
Arhgap4	0	0	0	441	7.35	32.9346	8.961296	Unclassified	chrX:71139690-71158637	16.948
V1rc32	0	0	0	2	0.033333	0.036968	1	Unclassified	chr6:56983906-56987119	1.214
Olfr1496	0	0	0	1	0.016667	0	1	Unclassified	chr19:13853037-13856104	1.068
Hils1	0	0	0	0	0	0.048303	0	Unclassified	chr11:94826974-94829770	0.797
Ocm	0	0	0	33	0.55	0.03521	0.498361	Unclassified	chr5:144780675-144813478	30.804
Odc1	0	0	0	664	11.06667	23.2313	9.708147	Unclassified	chr12:17549678-17558308	6.631
Pgcp	0	0	0	267	4.45	0.612972	23.37536	Stalled	chr15:33010883-33524307	511.425
Olfr157	0	0	0	3	0.05	0.029012	0	Unclassified	chr4:43847623-43851389	1.767
5430416O09Rik	0	0	0	6	0.1	0.111974	0.933618	Unclassified	chr4:43740905-43747406	4.502
Nlrp4f	0	0	0	24	0.4	0.038133	1.159787	Unclassified	chr13:65278418-65309024	28.607
Gatad2b	0	0	0	172	2.866667	6.87848	0.725908	Unclassified	chr3:90143575-90162042	16.468
1810022K09Rik	0	0	0	244	4.066667	20.0506	12.52958	Unclassified	chr3:14606288-14613256	4.969
Cr2	0	0	0	127	2.116667	0	29.41586	Stalled	chr1:196963004-197004909	39.906
Sh2d1b2	0	0	0	10	0.166667	0.400637	0.663148	Unclassified	chr1:172161001-172181718	18.718
Wdr4	0	0	0	1332	22.2	9.17366	6.824484	Unclassified	chr17:31631267-31651432	18.166
Syt6	0	0	0	79	1.316667	0.075458	0.879761	Unclassified	chr3:103377203-103439102	59.9
Usp3	0	0	0	945	15.75	9.69409	22.40429	Unclassified	chr9:66365687-66442787	75.101
Hmcn1	0	0	0	265	4.416667	0.083977	3.124823	Unclassified	chr1:152409631-152842565	430.935
Ccr2	0	0	0	6	0.1	0.116028	0	Unclassified	chr9:124014921-124023879	6.959
Gm773	0	0	0	1	0.016667	0	0	Unclassified	chrX:53443003-53468058	23.056
Slc25a43	0	0	0	136	2.266667	1.11898	8.83611	Unclassified	chrX:34281653-34317197	33.545
Taar3	0	0	0	2	0.033333	0	1	Unclassified	chr10:23667363-23670395	1.033
V1ra5	0	0	0	1	0.016667	0.05722	0	Unclassified	chr6:89819506-89822448	0.943
0610030E20Rik	0	0	0	302	5.033333	5.35051	11.49478	Unclassified	chr6:72295310-72303152	5.843
V1ra4	0	0	0	0	0	0.016529	0	Unclassified	chr6:89969881-89972814	0.934
Dppa5a	0	0	0	0	0	0	0	Unclassified	chr9:78214860-78218006	1.147
Aut2	0	0	0	850	14.16667	0.181912	0.565789	Unclassified	chr5:131913551-133020213	1104.663
BC046331	0	0	0	573	9.55	4.79423	7.139056	Unclassified	chr4:153347669-153381334	31.666
Serpina3h	0	0	0	15	0.25	0.390748	2.037476	Unclassified	chr12:105484114-105492615	6.502
Khynyn	0	0	0	574	9.566667	15.1278	7.552148	Unclassified	chr14:56501805-56515618	11.814
Fam168a	0	0	0	390	6.5	2.47595	29.94612	Stalled	chr7:107853215-107990144	134.93
Tmco5	0	0	0	15	0.25	0	1.03179	Unclassified	chr2:116702443-116718230	13.788

Atp1b4	0	0	0	10	0.166667	0.022735	0	Unclassified	chrX:35667443-35689890	20.448
Nmral1	0	0	0	232	3.866667	25.7826	7.066009	Unclassified	chr16:4711317-4721059	7.743
Snap47	0	0	0	279	4.65	4.14323	44.14092	Stalled	chr11:59220651-59265458	42.808
Wdr70	0	0	0	1057	17.61667	5.6242	28.61253	Stalled	chr15:7823054-8051209	226.156
Lce1f	0	0	0	1	0.016667	0	1	Unclassified	chr3:92522617-92526272	1.656
Klhl34	0	0	0	2	0.033333	0.026494	0	Unclassified	chrX:154254366-154258301	1.936
Cnksr2	0	0	0	54	0.9	0.054417	0.815184	Unclassified	chrX:154259504-154483042	221.539
1700093K21Rik	0	0	0	9	0.15	0.199791	1.909772	Unclassified	chr11:23416202-23421942	3.741
Mrgprb2	0	0	0	2	0.033333	0.012359	0	Unclassified	chr7:55806337-55815456	7.12
Lrrc41	0	0	0	645	10.75	12.0377	14.10062	Unclassified	chr4:115746069-115769648	21.58
Olfir153	0	0	0	0	0	0	0	Unclassified	chr2:87370191-87373115	0.925
Dpy1914	0	0	0	400	6.666667	1.67076	39.72354	Stalled	chr4:11192225-11251278	57.054
Sic6a13	0	0	0	58	0.966667	0.691485	0	Unclassified	chr6:121248313-121287736	37.424
Sic6a12	0	0	0	31	0.516667	0.080008	2.517944	Unclassified	chr6:121294714-121315791	19.078
Gad2	0	0	0	66	1.1	0.113923	0.520479	Unclassified	chr2:22475846-22549397	17.552
Gad1	0	0	0	77	1.283333	0.115034	2.545157	Unclassified	chr2:70398220-70440069	39.85
Them5	0	0	0	6	0.1	0.041045	0.515328	Unclassified	chr3:94144020-94151272	5.253
Lage3	0	0	0	91	1.516667	27.1015	22.30316	Unclassified	chrX:71597500-71600957	1.458
Cts6	0	0	0	7	0.116667	0.048437	0.591737	Unclassified	chr13:61296507-61306753	8.247
Acer3	0	0	0	246	4.1	1.2348	59.8575	Stalled	chr7:105362169-105460037	95.869
Ppp1r14d	0	0	0	28	0.466667	0	0.617949	Unclassified	chr2:119043858-119057588	11.731
Fam187b	0	0	0	20	0.333333	0.025944	1.419901	Unclassified	chr7:31760061-31774742	12.682
1700016D06Rik	0	0	0	46	0.766667	0.131918	0	Unclassified	chr8:11654923-11680750	23.828
Mki2	0	0	0	829	13.81667	1.66967	30.456	Stalled	chr16:13254573-13417621	161.049
1700019E19Rik	0	0	0	104	1.733333	1.03016	3.175853	Unclassified	chr12:87421512-87503406	79.895
Heatr3	0	0	0	730	12.16667	11.8287	22.87285	Unclassified	chr8:90659783-90695842	34.06
Clrn1	0	0	0	35	0.583333	0.015423	1.67141	Unclassified	chr3:58649136-58691134	39.999
Artn	0	0	0	28	0.466667	0.641536	2.139013	Unclassified	chr4:117598766-117604368	3.603
Rtbdn	0	0	0	56	0.933333	0.32914	0.734807	Unclassified	chr8:87468889-87480502	9.614
Rpl23a	0	0	0	487	8.116667	0	2.684778	Elongating	chr11:77994436-77999086	2.651
Plekha7	0	0	0	126	2.1	0.267502	0.689573	Unclassified	chr7:123267631-123335355	65.725
Gatc	0	0	0	493	8.216667	11.5576	5.198479	Unclassified	chr5:115783250-115793170	7.921
Cybrd1	0	0	0	32	0.533333	0.226334	2.930883	Unclassified	chr2:70954110-70980983	24.874
Cbln4	0	0	0	6	0.1	0.031925	0	Unclassified	chr2:171861835-171870966	7.132
Tmem131	0	0	0	2267	37.78333	14.3293	13.60609	Unclassified	chr1:36849033-36998372	147.34
Capn9	0	0	0	45	0.75	0.060532	0.491852	Unclassified	chr8:127098010-127142630	42.621
Gpr171	0	0	0	164	2.733333	3.63961	2.798165	Elongating	chr3:58900369-58907743	5.375
Psmid12	0	0	0	650	10.83333	39.2204	12.93877	Unclassified	chr11:107338841-107359350	18.51
Gpr116	0	0	0	75	1.25	0.040544	0.482854	Unclassified	chr17:43524414-43596506	70.093
Zcchc18	0	0	0	358	5.966667	35.4463	7.912276	Unclassified	chrX:133525693-133531462	3.77
Smarcd3	0	0	0	156	2.6	1.8496	0.105845	Unclassified	chr5:24098439-24109820	9.382
2410004A20Rik	0	0	0	24	0.4	0.790442	0.521458	Unclassified	chr9:72948204-72952250	2.047
Epb4.1i3	0	0	0	201	3.35	0.383381	1.200976	Unclassified	chr17:69504149-69639327	133.179
Epb4.1i2	0	0	0	780	13	20.7897	1.169849	Unclassified	chr10:25126177-25243320	115.144
Adam6b	0	0	0	11	0.183333	0.194481	0.965099	Unclassified	chr12:114725775-114730046	2.272
Med28	0	0	0	290	4.833333	5.52079	12.37207	Unclassified	chr5:45909467-45920523	9.057
Epb4.1i4a	0	0	0	748	12.46667	0.881199	0.661472	Unclassified	chr18:33955980-34168860	210.881
Kctd12b	0	0	0	3	0.05	0.096223	0	Unclassified	chrX:150119696-150132823	11.128
Apon	0	0	0	53	0.883333	0.14258	10.89165	Unclassified	chr10:127689186-127692957	1.772
BB014433	0	0	0	10	0.166667	0.021936	0	Unclassified	chr8:15041446-15048069	4.624
Phf8	0	0	0	563	9.383333	6.82254	97.76585	Stalled	chrX:147953214-148068400	113.187
Reep3	0	0	0	941	15.68333	4.83841	21.67428	Unclassified	chr10:66474255-66561605	85.351
Sec24b	0	0	0	948	15.8	8.81152	15.59271	Unclassified	chr3:129686102-129765825	77.724
Foxe3	0	0	0	6	0.1	1.21946	2	Unclassified	chr4:114597751-114600618	0.868
Olfir983	0	0	0	0	0	0.040558	0	Unclassified	chr9:39899601-39902549	0.949
Pla2g16	0	0	0	158	2.633333	6.7577	7.677251	Unclassified	chr19:7629948-7663035	31.088
Sic6a15	0	0	0	30	0.5	0.028426	4.810596	Unclassified	chr10:102828476-102882011	51.536
Gbp5	0	0	0	125	2.083333	6.51707	4.81442	Unclassified	chr3:142157897-142185308	25.412
mmu-mir-132,r	0	0	0	93	1.55	0	0.410033	Unclassified	chr11:74984049-74988383	4.335
mmu-mir-10a	0	0	0	151	2.516667	0	0	Unclassified	chr11:96171527-96182538	11.012
mmu-mir-146a	0	0	0	659	10.98333	0	0.145148	Unclassified	chr11:43181736-43198279	16.544
mmu-mir-345	0	0	0	199	3.316667	0	0.052306	Unclassified	chr12:110071394-110075729	4.336
mmu-mir-127	0	0	0	115	1.916667	0	0	Unclassified	chr12:110785055-110876125	91.071
mmu-mir-203	0	0	0	28	0.466667	0	1.316565	Unclassified	chr12:113363875-113372380	8.506
mmu-let-7d	0	0	0	682	11.36667	0	6.933697	Unclassified	chr13:48622217-48641391	19.175
mmu-mir-18a,r	0	0	0	992	16.53333	0	2.255574	Elongating	chr14:115441231-115450982	9.752
mmu-mir-30b,r	0	0	0	144	2.4	0	0	Unclassified	chr15:68192662-68196997	4.336
mmu-mir-484	0	0	0	255	4.25	0	0.044112	Unclassified	chr16:14156390-14161090	4.701
mmu-mir-181b	0	0	0	222	3.7	0	0.811758	Unclassified	chr1:139800356-139951650	151.295
mmu-mir-206	0	0	0	1	0.016667	0	0	Unclassified	chr1:20663103-20665103	2.001
mmu-mir-30a	0	0	0	8	0.133333	0	0	Unclassified	chr1:23259127-23270134	11.008
mmu-mir-296,r	0	0	0	410	6.833333	0	0.107481	Unclassified	chr2:174110103-174126114	16.012
mmu-mir-130a	0	0	0	39	0.65	0	0.283168	Unclassified	chr2:84571797-84587807	16.011
mmu-mir-92b	0	0	0	164	2.733333	0	0.13956	Unclassified	chr3:89030179-89034087	3.909
mmu-mir-31	0	0	0	8	0.133333	0	0.240451	Unclassified	chr4:88582545-88585760	3.216
mmu-mir-182,r	0	0	0	58	0.966667	0	0.057186	Unclassified	chr6:30122126-30126461	4.336
mmu-mir-148a	0	0	0	195	3.25	0	0	Unclassified	chr6:51220214-51224358	4.145
mmu-mir-34c	0	0	0	16	0.266667	0	0	Unclassified	chr9:50909675-50914010	4.336
mmu-mir-184	0	0	0	33	0.55	0	0	Unclassified	chr9:89677617-89708639	31.023
mmu-mir-223	0	0	0	1	0.016667	0	0	Unclassified	chrX:93434281-93438975	4.695
mmu-mir-221,r	0	0	0	177	2.95	0	0	Unclassified	chrX:18715959-18746990	31.032
mmu-mir-20b,r	0	0	0	199	3.316667	0	0	Unclassified	chrX:50094475-50100700	6.226
mmu-mir-322	0	0	0	195	3.25	0	0	Unclassified	chrX:50096213-50100547	4.335
mmu-mir-542,r	0	0	0	30	0.5	0	0	Unclassified	chrX:50407293-50414965	7.673

Table S2: Mutation analysis of 19 AID recruiting (AID+) and 11 AID non-recruiting (AID-) genes
 Each gene was analyzed using DNA isolated from IgκAID/UNG^{-/-} or AID^{-/-} activated B cells (LPS+IL-4)
 bp: total number of bp sequenced
 Mutations: total number of mutations detected
 P value was calculated between the mutation frequency obtained in *Aicda*^{+/+} and *Aicda*^{-/-}
 q value: statistical comparison between *IgκAID-Ung*^{-/-} and *Aicda*^{-/-} mutation frequency

Gene	Strain	bp sequenced	Mutations	Transitions at C-G (%)	RGYW-WRCY hotspot (% total mutations)	<i>IgκAID-Ung</i> ^{-/-} Mutation frequency (x 10 ⁻⁵)	<i>Aicda</i> ^{-/-} Mutation frequency (x 10 ⁻⁵)	P value	q value	mRNA RPKM	<i>Ung</i> ^{-/-} <i>Msh2</i> ^{-/-} Mutation frequency (x10 ⁻⁵). Reference 12	<i>IgκAID-Ung</i> ^{-/-} Mutation frequency (x 10 ⁻⁵)
AID recruiting genes	<i>Pim1</i>	<i>IgκAID-Ung</i> ^{-/-} : 20453 <i>Aicda</i> ^{-/-} : 17219	41 1	92.7 0	39 0	200.5	5.8	3.64E-10	4.24E-09	139.6	90.5	48.9
	<i>Mir142</i>	<i>IgκAID-Ung</i> ^{-/-} : 21551 <i>Aicda</i> ^{-/-} : 23676	43 1	100 0	32.6 0	199.5	4.22	3.30E-13	5.78E-12	ND		58.8*
	<i>Myc</i>	<i>IgκAID-Ung</i> ^{-/-} : 103818 <i>Aicda</i> ^{-/-} : 19136	171 3	99.4 100	39 33.3	164.7	15.7	2.17E-06	0.0000147	53.5	94.2	14.3*
	<i>Ii4ra</i>	<i>IgκAID-Ung</i> ^{-/-} : 29062 <i>Aicda</i> ^{-/-} : 25257	35 2	100 100	48.6 0	120	7.92	5.36E-08	4.693E-07	132.9		19.8
	<i>Grp</i>	<i>IgκAID-Ung</i> ^{-/-} : 19084 <i>Aicda</i> ^{-/-} : 12402	19 0	95 0	36.8 0	99.6	<1	0.000155	0.0005411	154.8		
	<i>Pax5</i>	<i>IgκAID-Ung</i> ^{-/-} : 114476 <i>Aicda</i> ^{-/-} : 28035	81 4	96.3 0	48.1 0	70.70	14.27	0.0009	0.0001578	54	87.8	
	<i>Hist1h1c</i>	<i>IgκAID-Ung</i> ^{-/-} : 42680 <i>Aicda</i> ^{-/-} : 34266	34 3	100 33.3	34.3 0	79.7	8.8	2.52E-06	1.471E-05	16.4		
	<i>Ly6e</i>	<i>IgκAID-Ung</i> ^{-/-} : 20583 <i>Aicda</i> ^{-/-} : 13546	13 0	92.3 0	46.2 0	63.2	<1	0.00261	0.006526	265.9		
	<i>Cd83</i>	<i>IgκAID-Ung</i> ^{-/-} : 11577 <i>Aicda</i> ^{-/-} : 38378	7 0	85.7 0	28.6 0	60.5	<1	3.59E-05	0.0001578	111.5	51.2	
	<i>H2afx</i>	<i>IgκAID-Ung</i> ^{-/-} : 23611 <i>Aicda</i> ^{-/-} : 18630	12 0	91.7 0	41.7 0	55.1	<1	0.001806	0.0048616	55.4	44.7	
	<i>Gadd45g</i>	<i>IgκAID-Ung</i> ^{-/-} : 23728 <i>Aicda</i> ^{-/-} : 27482	13 1	100 100	53.9 0	54.8	3.6	0.000525	0.0016718	115.4		
	<i>Ii4i1</i>	<i>IgκAID-Ung</i> ^{-/-} : 41757 <i>Aicda</i> ^{-/-} : 55503	14 3	100 100	43.7 33.3	38.3	5.4	0.001136	0.0033128	362.1		
	<i>Adrbk1</i>	<i>IgκAID-Ung</i> ^{-/-} : 23333 <i>Aicda</i> ^{-/-} : 17277	8 0	100 0	37.5 0	34.3	<1	0.024532	0.050507	97.8		
	<i>Hvcn1</i>	<i>IgκAID-Ung</i> ^{-/-} : 24912 <i>Aicda</i> ^{-/-} : 21033	8 3	87.5 0	50 0	32.1	14.3	0.244755	0.3942284	89.9		
	<i>Actb</i>	<i>IgκAID-Ung</i> ^{-/-} : 25984 <i>Aicda</i> ^{-/-} : 23858	7 0	100 0	85.7 0	26.9	<1	0.016217	0.0369386	759.7		
	<i>Ucp2</i>	<i>IgκAID-Ung</i> ^{-/-} : 22139 <i>Aicda</i> ^{-/-} : 27937	5 0	100 0	40 0	22.6	<1	0.016886	0.0369386	103		
	<i>Pip5k1c</i>	<i>IgκAID-Ung</i> ^{-/-} : 36102 <i>Aicda</i> ^{-/-} : 56600	6 1	83.3 0	33.3 0	16.6	1.8	0.0316	0.0369386	45		
	<i>Dpagt1</i>	<i>IgκAID-Ung</i> ^{-/-} : 26430 <i>Aicda</i> ^{-/-} : 48791	4 1	50 0	50 100	15.1	2.1	0.054781	0.1065182	14.3		
	<i>Trex1</i>	<i>IgκAID-Ung</i> ^{-/-} : 34574 <i>Aicda</i> ^{-/-} : 27625	3 0	100 0	0 0	8.68	<1	0.259349	0.3946622	34.3		
	non-AID recruiting genes	<i>N-myc</i>	<i>IgκAID-Ung</i> ^{-/-} : 45462 <i>Aicda</i> ^{-/-} : 31251	0 0	0 0	0 0	<1	<1	1	1	0.51	
<i>Hmbs</i>		<i>IgκAID-Ung</i> ^{-/-} : 28566 <i>Aicda</i> ^{-/-} : 34058	2 0	50 0	0 0	7.00	<1	0.20807	0.3641221	13.3		
<i>Rpl4</i>		<i>IgκAID-Ung</i> ^{-/-} : 34352 <i>Aicda</i> ^{-/-} : 30600	2 0	50 0	0 0	5.82	<1	0.501661	0.6096906	1260.1		
<i>Eif3h</i>		<i>IgκAID-Ung</i> ^{-/-} : 33048 <i>Aicda</i> ^{-/-} : 30948	2 0	100 0	0 0	6.05	<1	0.500531	0.6096906	141.8		
<i>Gdi2</i>		<i>IgκAID-Ung</i> ^{-/-} : 31044 <i>Aicda</i> ^{-/-} : 30772	0 2	0 0	0 0	<1	6.5	0.247801	0.3942284	74.2		
<i>Rbbp7</i>		<i>IgκAID-Ung</i> ^{-/-} : 22472 <i>Aicda</i> ^{-/-} : 26602	1 0	0 0	0 0	4.44	<1	0.457921	0.6096906	52.3		
<i>Sfrs9</i>		<i>IgκAID-Ung</i> ^{-/-} : 32871 <i>Aicda</i> ^{-/-} : 37790	3 2	100 50	66.6 0	9.12	5.29	0.668967	0.7552852	61.9		
<i>Cdc42</i>		<i>IgκAID-Ung</i> ^{-/-} : 28015 <i>Aicda</i> ^{-/-} : 22838	2 0	50 0	50 0	7.14	<1	0.505172	0.6096906	71.8		
<i>Crk</i>		<i>IgκAID-Ung</i> ^{-/-} : 27511 <i>Aicda</i> ^{-/-} : 28215	1 1	0 0	0 0	3.63	3.54	1	1	14		
<i>Lman1</i>		<i>IgκAID-Ung</i> ^{-/-} : 29569 <i>Aicda</i> ^{-/-} : 36662	3 1	100 100	0 0	10.14	2.72	0.330639	0.4628943	23.4		
<i>Fam50a</i>		<i>IgκAID-Ung</i> ^{-/-} : 34086 <i>Aicda</i> ^{-/-} : 32154	1 2	100 50	0 0	2.93	6.22	0.614385	0.7167821	21.5		
Ig genes		<i>IgSμ</i>	<i>IgκAID-Ung</i> ^{-/-} : 26101 <i>Aicda</i> ^{-/-} : 26369	521 0	99.0 0	61.2 0	1996	<1	<0.0001			510*
		<i>IgCμ</i>	<i>IgκAID-Ung</i> ^{-/-} : 45906 <i>Aicda</i> ^{-/-} : 25726	4 0	50.0 0	0 0	8.71	<1	0.329			
		<i>IgSy1</i>	<i>IgκAID-Ung</i> ^{-/-} : 18255 <i>Aicda</i> ^{-/-} : 28270	286 0	100 0	58.7 0	1567	<1	<0.0001			
		<i>Ih4 intron</i>	<i>IgκAID-Ung</i> ^{-/-} : 17223 <i>Aicda</i> ^{-/-} : 14640	26 2	96 0	58 0	151.0	13.7	<0.0001		2200	

*data from Robianni et al. (2009)

Table S3: Euclidean distance matrix: AID, RNA PolII, CTCF, p300, 36 chromatin modifications from B lymphocytes stimulated for 6
Data was normalized as sequence tags per million, and log2 transformed
Binding regions were defined based on 7019 AID islands

Variable	AID	H2A Z	H2AK9Ac	H2B K12Ac	H2B K5Ac	H2BK120Ac	H2BK20Ac	H2BK5me1	H3K14Ac	H3K18Ac	H3K23Ac	H3K27Ac
AID	0.00	14.84	10.03	8.61	8.00	7.57	7.99	14.77	13.13	8.79	12.88	8.21
H3K4me1	7.48	14.02	9.22	7.49	7.62	6.84	6.94	13.73	12.20	7.63	11.93	7.54
H2BK120Ac	7.57	14.70	7.80	5.33	5.93	0.00	5.15	14.71	12.31	6.08	11.78	5.94
H4K8Ac	7.71	13.69	7.10	6.32	5.41	5.74	6.63	13.66	11.34	6.47	10.96	5.31
H3K4me2	7.90	15.32	8.33	7.14	6.47	5.79	7.29	15.32	12.98	7.49	12.22	6.38
H2BK20Ac	7.99	13.81	8.13	5.35	7.15	5.15	0.00	13.78	11.52	6.04	11.33	7.04
H2B K5Ac	8.00	14.72	7.34	6.88	0.00	5.93	7.15	14.61	12.21	7.05	11.63	4.71
H3K4me3	8.12	14.17	7.28	6.88	6.36	6.01	7.29	14.24	11.87	7.04	11.27	5.65
H3K27Ac	8.21	13.45	6.40	6.44	4.71	5.94	7.04	13.45	11.11	6.56	10.63	0.00
H3K4Ac	8.59	13.97	6.26	5.58	5.34	5.20	6.48	14.07	11.43	6.00	11.00	4.94
H2B K12Ac	8.61	13.25	7.14	0.00	6.88	5.33	5.35	13.32	10.90	5.60	10.71	6.44
H4K91Ac	8.70	13.11	5.85	5.42	5.98	5.67	6.43	13.27	10.63	5.91	10.44	5.15
H3K18Ac	8.79	12.99	7.06	5.60	7.05	6.08	6.04	12.99	10.54	0.00	10.44	6.56
H3K9Ac	9.03	14.27	6.49	6.72	5.49	6.01	7.51	14.41	11.76	6.99	11.02	4.94
Pol II	9.49	13.99	8.23	9.42	7.28	8.98	9.88	14.04	12.09	9.39	11.09	7.34
H3K36Ac	9.87	11.98	6.95	6.34	8.12	7.59	6.97	12.05	9.46	6.29	9.87	7.34
H2AK9Ac	10.03	11.88	0.00	7.14	7.34	7.80	8.13	12.13	9.53	7.06	9.33	6.40
H4K5Ac	10.75	11.00	6.19	7.72	8.67	8.93	8.67	11.23	8.39	7.55	8.95	7.68
H3K79me1	11.05	10.78	8.66	9.84	9.69	10.39	10.23	10.42	9.73	9.60	9.06	8.90
CTCF	11.11	11.68	10.96	11.41	11.96	11.66	11.45	12.01	11.53	11.52	11.27	11.38
H4K12Ac	11.35	10.23	8.08	9.58	10.03	10.58	10.09	10.37	8.42	9.30	8.68	9.15
H3K79me2	11.61	10.18	8.21	9.71	10.20	10.53	10.25	10.05	8.88	9.39	8.47	9.17
H3K36me2	11.66	10.37	9.78	9.35	11.13	10.58	9.54	9.93	9.28	9.15	9.92	10.36
p300	11.78	10.40	8.28	9.79	10.35	10.58	10.38	10.80	9.43	9.65	9.24	9.56
H3K36me3	11.97	10.55	11.84	12.63	12.26	13.15	12.57	9.83	10.56	12.30	10.39	11.92
H3K36me1	12.27	9.37	11.65	11.71	13.12	12.54	11.83	9.00	9.98	11.38	10.36	12.22
H3K9me1	12.83	8.74	11.68	12.05	12.97	13.13	12.22	7.66	9.32	11.69	10.01	12.14
H3K23Ac	12.88	9.10	9.33	10.71	11.63	11.78	11.33	9.10	7.88	10.44	0.00	10.63
H3K14Ac	13.13	8.07	9.53	10.90	12.21	12.31	11.52	8.22	0.00	10.54	7.88	11.11
H3K27me1	13.84	7.07	12.23	13.31	14.13	14.50	13.60	6.45	9.07	13.02	9.78	13.16
H4K20me1	13.93	6.87	12.64	13.68	14.53	14.79	13.87	6.31	9.22	13.34	9.84	13.54
H3K79me3	14.43	5.69	11.27	12.87	14.16	14.22	13.44	6.17	7.86	12.57	8.52	12.90
H3K27me3	14.53	6.35	13.09	13.80	15.60	15.05	14.08	6.59	9.28	13.61	10.02	14.37
H2BK5me1	14.77	5.30	12.13	13.32	14.61	14.71	13.78	0.00	8.22	12.99	9.10	13.45
H2A.Z	14.84	0.00	11.88	13.25	14.72	14.70	13.81	5.30	8.07	12.99	9.10	13.45
H3K27me2	15.13	4.13	12.31	13.56	15.13	15.09	14.09	4.43	7.90	13.29	9.11	13.85
H4K20me3	15.13	4.00	12.33	13.67	15.21	15.18	14.19	4.46	8.01	13.41	9.27	13.94
H3K9me3	15.17	4.15	12.34	13.64	15.18	15.14	14.13	4.33	7.98	13.36	9.19	13.92
H3K9me2	15.18	3.86	12.35	13.69	15.23	15.22	14.22	4.28	7.95	13.44	9.20	13.95
H4K16Ac	15.23	3.77	12.28	13.63	15.17	15.15	14.15	4.13	7.86	13.38	9.08	13.88

Variable	H3K27me1	H3K27me2	H3K27me3	H3K36Ac	H3K36me1	H3K36me2	H3K36me3	H3K4Ac	H3K4me1	H3K4me2	H3K4me3	H3K79me1
AID	13.84	15.13	14.53	9.87	12.27	11.66	11.97	8.59	7.48	7.90	8.12	11.05
H3K4me1	13.32	14.27	14.09	8.71	11.30	9.71	12.03	7.63	0.00	6.91	7.23	9.89
H2BK120Ac	14.50	15.09	15.05	7.59	12.54	10.58	13.15	5.20	6.84	5.79	6.01	10.39
H4K8Ac	13.38	14.04	14.40	7.43	12.05	10.16	12.01	5.34	7.06	6.38	6.15	9.45
H3K4me2	15.23	15.76	15.32	8.91	12.96	11.58	13.76	5.70	6.91	0.00	4.30	10.71
H2BK20Ac	13.60	14.09	14.08	6.97	11.83	9.54	12.57	6.48	6.94	7.29	7.29	10.23
H2B K5Ac	14.13	15.13	15.60	8.12	13.12	11.13	12.26	5.34	7.62	6.47	6.36	9.69
H3K4me3	14.22	14.61	14.42	8.25	12.35	11.06	13.03	5.23	7.23	4.30	0.00	9.82
H3K27Ac	13.16	13.85	14.37	7.34	12.22	10.36	11.92	4.94	7.54	6.38	5.65	8.90
H3K4Ac	14.05	14.40	14.74	7.02	12.46	10.38	13.03	0.00	7.63	5.70	5.23	9.74
H2B K12Ac	13.31	13.56	13.80	6.34	11.71	9.35	12.63	5.58	7.49	7.14	6.88	9.84
H4K91Ac	13.23	13.47	14.01	6.37	11.99	9.77	12.61	4.35	7.91	6.70	6.00	9.43
H3K18Ac	13.02	13.29	13.61	6.29	11.38	9.15	12.30	6.00	7.63	7.49	7.04	9.60
H3K9Ac	14.38	14.79	15.02	8.00	12.91	11.24	13.04	4.54	8.29	5.49	5.12	9.70
Pol II	13.72	14.47	14.88	10.03	13.50	12.50	11.24	8.20	10.06	8.90	8.37	9.26
H3K36Ac	12.17	12.17	12.77	0.00	11.16	8.71	12.04	7.02	8.71	8.91	8.25	9.58
H2AK9Ac	12.23	12.31	13.09	6.95	11.65	9.78	11.84	6.26	9.22	8.33	7.28	8.66
H4K5Ac	11.47	11.18	12.19	6.56	11.19	9.11	11.67	7.64	9.83	9.62	8.60	9.18
H3K79me1	10.41	11.03	11.89	9.58	10.87	10.15	9.65	9.74	9.89	10.71	9.82	0.00
CTCF	12.05	12.04	11.85	11.51	11.69	12.06	11.93	11.63	11.56	11.83	11.36	11.08
H4K12Ac	10.26	10.43	11.46	8.59	10.93	9.61	10.16	9.70	10.46	11.21	10.19	8.61
H3K79me2	10.37	10.29	11.37	9.12	10.89	9.64	10.11	9.74	10.66	11.06	10.02	7.81
H3K36me2	10.31	10.05	10.92	8.71	9.65	0.00	11.36	10.38	9.71	11.58	11.06	10.15
p300	11.37	10.74	11.37	9.35	11.37	10.42	11.33	9.65	11.18	10.95	10.08	9.44
H3K36me3	9.02	10.31	11.12	12.04	11.32	11.36	0.00	13.03	12.03	13.76	13.03	9.65
H3K36me1	9.45	9.16	9.38	11.16	0.00	9.65	11.32	12.46	11.30	12.96	12.35	10.87
H3K9me1	7.58	8.22	9.37	11.17	8.97	9.14	9.12	12.86	11.73	13.85	13.04	9.92
H3K23Ac	9.78	9.11	10.02	9.87	10.36	9.92	10.39	11.00	11.93	12.22	11.27	9.06
H3K14Ac	9.07	7.90	9.28	9.46	9.98	9.28	10.56	11.43	12.20	12.98	11.87	9.73
H3K27me1	0.00	6.48	8.31	12.17	9.45	10.31	9.02	14.05	13.32	15.23	14.22	10.41
H4K20me1	6.74	6.25	7.54	12.60	9.34	10.67	9.08	14.45	13.50	15.36	14.38	10.49
H3K79me3	7.65	5.33	7.23	11.66	9.86	10.39	9.84	13.43	13.79	14.83	13.60	10.22
H3K27me3	8.31	5.69	0.00	12.77	9.38	10.92	11.12	14.74	14.09	15.32	14.42	11.89
H2BK5me1	6.45	4.43	6.59	12.05	9.00	9.93	9.83	14.07	13.73	15.32	14.24	10.42
H2A.Z	7.07	4.13	6.35	11.98	9.37	10.37	10.55	13.97	14.02	15.32	14.17	10.78
H3K27me2	6.48	0.00	5.69	12.17	9.16	10.05	10.31	14.40	14.27	15.76	14.61	11.03
H4K20me3	6.42	2.52	5.72	12.29	9.35	10.19	10.30	14.49	14.36	15.88	14.68	11.06
H3K9me3	6.59	2.70	5.53	12.26	9.26	10.11	10.18	14.47	14.31	15.80	14.61	11.01
H3K9me2	6.34	2.15	5.63	12.30	9.30	10.17	10.32	14.52	14.39	15.89	14.73	11.04
H4K16Ac	6.39	2.35	5.45	12.24	9.23	10.07	10.24	14.45	14.33	15.81	14.66	10.94

Variable	H3K79me2	H3K79me3	H3K9Ac	H3K9me1	H3K9me2	H3K9me3	H4K12Ac	H4K16Ac	H4K20me1	H4K20me3	H4K5Ac	H4K8Ac
AID	11.61	14.43	9.03	12.83	15.18	15.17	11.35	15.23	13.93	15.13	10.75	7.71
H3K4me1	10.66	13.79	8.29	11.73	14.39	14.31	10.46	14.33	13.50	14.36	9.83	7.06
H2BK120Ac	10.53	14.22	6.01	13.13	15.22	15.14	10.58	15.15	14.79	15.18	8.93	5.74
H4K8Ac	9.76	13.23	5.89	12.23	14.18	14.13	9.39	14.11	13.69	14.17	8.00	0.00
H3K4me2	11.06	14.83	5.49	13.85	15.89	15.80	11.21	15.81	15.36	15.88	9.62	6.38
H2BK20Ac	10.25	13.44	7.51	12.22	14.22	14.13	10.09	14.15	13.87	14.19	8.67	6.63
H2B K5Ac	10.20	14.16	5.49	12.97	15.23	15.18	10.03	15.17	14.53	15.21	8.67	5.41
H3K4me3	10.02	13.60	5.12	13.04	14.73	14.61	10.19	14.66	14.38	14.68	8.60	6.15
H3K27Ac	9.17	12.90	4.94	12.14	13.95	13.92	9.15	13.88	13.54	13.94	7.68	5.31
H3K4Ac	9.74	13.43	4.54	12.86	14.52	14.47	9.70	14.45	14.45	14.49	7.64	5.34
H2B K12Ac	9.71	12.87	6.72	12.05	13.69	13.64	9.58	13.63	13.68	13.67	7.72	6.32
H4K91Ac	9.22	12.59	5.41	12.27	13.56	13.56	9.15	13.50	13.68	13.55	6.96	5.52
H3K18Ac	9.39	12.57	6.99	11.69	13.44	13.36	9.30	13.38	13.34	13.41	7.55	6.47
H3K9Ac	9.85	13.70	0.00	13.36	14.91	14.84	9.92	14.82	14.70	14.89	8.06	5.89
Pol II	10.04	13.32	7.47	13.17	14.54	14.46	10.01	14.45	13.76	14.52	9.57	7.98
H3K36Ac	9.12	11.66	8.00	11.17	12.30	12.26	8.59	12.24	12.60	12.29	6.56	7.43
H2AK9Ac	8.21	11.27	6.49	11.68	12.35	12.34	8.08	12.28	12.64	12.33	6.19	7.10
H4K5Ac	8.53	10.55	8.06	10.95	11.27	11.29	7.63	11.25	11.95	11.26	0.00	8.00
H3K79me1	7.81	10.22	9.70	9.92	11.04	11.01	8.61	10.94	10.49	11.06	9.18	9.45
CTCF	11.21	11.43	11.56	12.53	12.07	12.01	11.10	11.96	11.96	12.06	11.16	11.25
H4K12Ac	8.22	9.75	9.92	10.12	10.46	10.48	0.00	10.40	10.57	10.45	7.63	9.39
H3K79me2	0.00	9.16	9.85	10.05	10.32	10.36	8.22	10.25	10.41	10.33	8.53	9.76
H3K36me2	9.64	10.39	11.24	9.14	10.17	10.11	9.61	10.07	10.67	10.19	9.11	10.16
p300	8.92	9.86	9.72	11.31	10.75	10.71	9.15	10.63	11.25	10.72	8.75	9.97
H3K36me3	10.11	9.84	13.04	9.12	10.32	10.18	10.16	10.24	9.08	10.30	11.67	12.01
H3K36me1	10.89	9.86	12.91	8.97	9.30	9.26	10.93	9.23	9.34	9.35	11.19	12.05
H3K9me1	10.05	9.03	13.36	0.00	8.30	8.31	10.12	8.23	7.89	8.38	10.95	12.23
H3K23Ac	8.47	8.52	11.02	10.01	9.20	9.19	8.68	9.08	9.84	9.27	8.95	10.96
H3K14Ac	8.88	7.86	11.76	9.32	7.95	7.98	8.42	7.86	9.22	8.01	8.39	11.34
H3K27me1	10.37	7.65	14.38	7.58	6.34	6.59	10.26	6.39	6.74	6.42	11.47	13.38
H4K20me1	10.41	7.24	14.70	7.89	6.11	6.22	10.57	6.07	0.00	6.22	11.95	13.69
H3K79me3	9.16	0.00	13.70	9.03	5.12	5.28	9.75	5.04	7.24	5.18	10.55	13.23
H3K27me3	11.37	7.23	15.02	9.37	5.63	5.53	11.46	5.45	7.54	5.72	12.19	14.40
H2BK5me1	10.05	6.17	14.41	7.66	4.28	4.33	10.37	4.13	6.31	4.46	11.23	13.66
H2A.Z	10.18	5.69	14.27	8.74	3.86	4.15	10.23	3.77	6.87	4.00	11.00	13.69
H3K27me2	10.29	5.33	14.79	8.22	2.15	2.70	10.43	2.35	6.25	2.52	11.18	14.04
H4K20me3	10.33	5.18	14.89	8.38	1.77	2.18	10.45	2.18	6.22	0.00	11.26	14.17
H3K9me3	10.36	5.28	14.84	8.31	2.30	0.00	10.48	2.23	6.22	2.18	11.29	14.13
H3K9me2	10.32	5.12	14.91	8.30	0.00	2.30	10.46	1.72	6.11	1.77	11.27	14.18
H4K16Ac	10.25	5.04	14.82	8.23	1.72	2.23	10.40	0.00	6.07	2.18	11.25	14.11

Variable	H4K91Ac	Pol II	CTCF	p300
AID	8.70	9.49	11.11	11.78
H3K4me1	7.91	10.06	11.56	11.18
H2BK120Ac	5.67	8.98	11.66	10.58
H4K8Ac	5.52	7.98	11.25	9.97
H3K4me2	6.70	8.90	11.83	10.95
H2BK20Ac	6.43	9.88	11.45	10.38
H2B K5Ac	5.98	7.28	11.96	10.35
H3K4me3	6.00	8.37	11.36	10.08
H3K27Ac	5.15	7.34	11.38	9.56
H3K4Ac	4.35	8.20	11.63	9.65
H2B K12Ac	5.42	9.42	11.41	9.79
H4K91Ac	0.00	8.51	11.31	9.30
H3K18Ac	5.91	9.39	11.52	9.65
H3K9Ac	5.41	7.47	11.56	9.72
Pol II	8.51	0.00	11.60	9.84
H3K36Ac	6.37	10.03	11.51	9.35
H2AK9Ac	5.85	8.23	10.96	8.28
H4K5Ac	6.96	9.57	11.16	8.75
H3K79me1	9.43	9.26	11.08	9.44
CTCF	11.31	11.60	0.00	10.46
H4K12Ac	9.15	10.01	11.10	9.15
H3K79me2	9.22	10.04	11.21	8.92
H3K36me2	9.77	12.50	12.06	10.42
p300	9.30	9.84	10.46	0.00
H3K36me3	12.61	11.24	11.93	11.33
H3K36me1	11.99	13.50	11.69	11.37
H3K9me1	12.27	13.17	12.53	11.31
H3K23Ac	10.44	11.09	11.27	9.24
H3K14Ac	10.63	12.09	11.53	9.43
H3K27me1	13.23	13.72	12.05	11.37
H4K20me1	13.68	13.76	11.96	11.25
H3K79me3	12.59	13.32	11.43	9.86
H3K27me3	14.01	14.88	11.85	11.37
H2BK5me1	13.27	14.04	12.01	10.80
H2A.Z	13.11	13.99	11.68	10.40
H3K27me2	13.47	14.47	12.04	10.74
H4K20me3	13.55	14.52	12.06	10.72
H3K9me3	13.56	14.46	12.01	10.71
H3K9me2	13.56	14.54	12.07	10.75
H4K16Ac	13.50	14.45	11.96	10.63

Table S4: Mutation analysis at promoter areas from 4 AID target genes

Each promoter sequence was analyzed both in *IgκAID-Ung*^{-/-} and *Aicda*^{-/-} control

bp: total number of bp sequenced

Mutations: total number of mutations detected

P value was calculated between the mutation frequency obtained in *IgκAID-Ung*^{-/-} and *Aicda*^{-/-} control

Promoter area	Strain	bp	Mutations	Transitions at C-G (%)	RGYW-WRCY hotspot (% total mutations)	<i>IgκAID-Ung</i> ^{-/-} Mutation rate (x 10 ⁻⁵)	<i>Aicda</i> ^{-/-} Mutation rate (x 10 ⁻⁵)	P value
<i>Il4ra</i>	<i>IgκAID-Ung</i> ^{-/-}	36359	2	100	0	5.50		
	<i>Aicda</i> ^{-/-}	19548	1	0	0		5.12	0.585
<i>Pax5</i>	<i>IgκAID-Ung</i> ^{-/-}	417885	112	88.7	68	27.0		
	<i>Aicda</i> ^{-/-}	74636	4	25	0		5.36	0.0007
<i>Pax5</i>	<i>Ung</i> ^{-/-} <i>Msh2</i> ^{-/-} PPs	35826	11	40.9	27.3	30.7		
	<i>IgκAID-Ung</i> ^{-/-}	106877	18	58.3	41.7	16.8		
<i>Myc</i>	<i>Aicda</i> ^{-/-}	53873	2	100	50		3.71	0.0465
	<i>IgκAID-Ung</i> ^{-/-}	28640	1	0	0	3.49		
<i>Grap</i>	<i>Aicda</i> ^{-/-}	28131	1	0	0		3.55	0.4874
	<i>IgκAID-Ung</i> ^{-/-}	32324	25	68	64	77.4		
<i>Pim1</i>	<i>Aicda</i> ^{-/-}	27690	1	100	0		3.61	<0.0001
	<i>IgκAID-Ung</i> ^{-/-}	33636	13	92.3	30.8	38.6		
<i>Igγ1</i>	<i>IgκAID-Ung</i> ^{-/-}	64857	1	0	0		1.54	<0.0001
	<i>Aicda</i> ^{-/-}	64857	1	0	0		1.54	<0.0001

Table S5: Summary of anti-RPA ChIP-Seq runs

Antibody	Genotype	Culture Conditions	Tags passing Quality Filter	Islands
α RPA	<i>Aicda</i> ^{+/+}	LPS+IL-4	25,471,018	232
α RPA	<i>Aicda</i> ^{+/+}	LPS+IL-4	27,381,347	131
α RPA	<i>Aicda</i> ^{+/+}	LPS+IL-4	31,418,448	162
α RPA	<i>IgκAID</i>	LPS+IL-4	15,539,556	184
α RPA	<i>IgκAID</i>	LPS+IL-4	16,789,847	190
α RPA	AID S38A/S38A	LPS+IL-4	26,047,966	230
α RPA	AID T140A/T140A	LPS+IL-4	25,688,669	219
α RPA	<i>Aicda</i> ^{+/+} and <i>IgκAID</i> samples combined	LPS+IL-4	116,600,216	349
α RPA	<i>Aicda</i> ^{-/-}	LPS+IL-4	30,999,530	269
α RPA	<i>Aicda</i> ^{-/-}	LPS+IL-4	17,227,505	170

Table S6: Enrichment of RPA at on- and off-target sites

A *P* value was calculated to determine the significance of enrichment of RPA at the IgH and a subset of off-target AID sites

This was done by comparing the total number of sequence tags at each site relative to a random background model based on a binomial distribution

The probability that any one RPA read falls onto a region *i* by chance is

$$p = \frac{l_i}{l_{eg}}$$

where *l_i* is the length region *i* and *l_{eg}* is the effective size of the genome adjusted for mappability (2,123,929,214 bps).

Given that there are *n* total aligned reads (which can be considered trials in a binomial experiment), we can then determine the probability that *x* or more fall onto region *i*:

$$P(X > x) = 1 - P(X \leq x) = 1 - \sum_{i=0}^x \binom{n}{i} p^i (1-p)^{n-i}$$

The results (including a 99% confidence interval for the fold-enrichment (fE)) shown below demonstrate that with the exception of the Ig loci other genomic sites do not display statistically significant RPA recruitment.

Gene	P binomial	fE	Signature
<i>IgH</i>	0.00E+00	11.51	TRUE
<i>IgY1</i>	0.00E+00	8.12	TRUE
<i>IgE</i>	4.57E-72	3.54	FALSE
<i>Hist1h1c</i>	3.82E-25	2.41	FALSE
<i>Pim1</i>	2.99E-27	2.06	FALSE
<i>Cd83</i>	1.99E-58	1.88	FALSE
<i>Il4ra</i>	3.57E-62	1.74	FALSE
<i>Myc</i>	4.95E-07	1.44	FALSE
<i>Grp</i>	8.69E-01	0.99	FALSE
<i>Pax5</i>	4.56E-01	0.99	FALSE

Table S7: Antibodies used for ChIP-Seq

Epitope	Antibody	Company/Provider
AID	Ab1	Y. Chaudhuri, F. Alt
AID	Ab2 (H-80)	Santa Cruz
RPA-32	NA19L	Oncogene
PolII	ab5408	Abcam
p300(C-20)	sc-585X	Santa Cruz
CTCF	07-729	Upstate
H2AK9Ac	07-289	Upstate
H2BK5Ac	ab1764	Abcam
H2BK5me1	ab12929	Abcam
H2BK12Ac	ab40883	Abcam
H2BK20Ac	07-347	Upstate
H2BK120Ac	07-564	Upstate
H3K4me1	ab8895	Abcam
H3K4me2	ab7766	Abcam
H3K4me3	ab8580	Abcam
H3K9Ac	ab4441	Abcam
H3K9me1	ab8896	Abcam
H3K9me2	ab1220	Abcam
H3K9me3	ab8898	Abcam
H3K4Ac	07-539	Upstate
H3K14Ac	07-353	Upstate
H3K18Ac	ab1191	Abcam
H3K23Ac	07-355	Upstate
H3K27Ac	ab4729	Abcam
H3K27me1	07-448	Upstate
H3K27me2	ab24684	Abcam
H3K27me3	17-622	Upstate
H3K36Ac	07-540	Upstate
H3K36me1	ab9048	Abcam
H3K36me2	07-369	Upstate
H3K36me3	ab9050	Abcam
H3K79me1	ab2886	Abcam
H3K79me2	ab24684	Abcam
H3K79me3	ab2621	Abcam
H4K5Ac	07-327	Upstate
H4K8Ac	07-328	Upstate
H4K12Ac	07-595	Upstate
H4K16Ac	sc-8662R	Santa Cruz
H4K91Ac	ab4627	Abcam
H4K20me1	ab9051	Abcam
H3K20me3	ab9053	Abcam
H2A.Z	ab4174	Abcam

Table S8: Primers and PCR conditions used to determine SHM in *Aicda*^{-/-} and *IgkAID-Ung*^{-/-} B cells
 *Annealing temperature was 60C for all reactions unless otherwise stated

Amplicon	5' primer	3' primer
Myc_exon1*	catgctgcgctattactgtttacac cccagattcccaaagcagag	gaaagaacacagggaaagaccac cagcctcaaacagctcgag
Pim1	ttcggctcggctactactcg	ggagggaaaagtgggtcatalac
Mir142	gactagagacagaggcgtg cgttggattcaagactgtgggtc	caagtacaggggtcaggaag aatgagggcggtgagagatgctc
Myc_intron1	tggctttccctgtgtctttctg	gacacctcccttctacactctaaaccg
Il4ra	gagcctgaactcgaggtag	ccctcagtcagagagcacag
Grap	ctgtacagcttcaggctac	cagccaagccatggtcttc
Pax5_exon1a	tcgaccatcaggacaggtag caggaaaaggcctgtccttc	cataccacccactgtgctc tgcaactgcacagtgaag
H1c	tgtccgagctcataccaag	agcatagaagccactacaag
Ly6e	cttgggtgattcagcctttg	cctgaggaacacctccacaac
Cd83 (68C)	cctgtttctaggctgcggtac	gaagaaggcagctcccgtgttt
H2afx	gagttataaggccggcttg	gaggagggaaagagaaggtatg
Gadd45g	catcggactctgggaatctttac	cagaagttcgtgagtgcttc
Il4i1	ccaagagagctgaaggtagag	caggacgggtaagtggagtg
Adrbk1	ccggagacccattattctg	ccacaagtgggaaaagggtaa
Hvcn1	cgtaggcctttgagttgacg	aaggttgagcagagaggaac
Actb	gtaacaggtcacttacctggtg	gcgtgcgctctctatcactg
Pax5_downstream2kb	gagccagaggaacatcactg	gaggaaagaaggagacagtttg
Ucp2	gccctttgttattgctctgac	caagtccttcagacagccttg
Pip5k1c	ttcgccatggagctagag	atgctgctcttgacaaggaag
Coro1	tctcctcctcctcactg	cttctgctcagtaaaggaac
Dpagt1	ggaaaacagcaccgctgac	ggttgctcctaagagctcttg
Trex1	ctcctgctggagttgagatg	tctgtgagccatgctgaac
Syng2	tccagcccgtgggtttg	cgctaggctgggagattc
N-myc	aaagcctattcagacccgaag	gtgtggctctctgcaactttg
Hmbs	ttgctgctgccacaacagatc	caaactgtatgccagggtacaag
Rpl4	catgtgctttagctcggag	aggcatatacagggcaatc
Eif3h	tgaagcaggtgcagatcgac	aagaagaagacgacgacgatg
Gdi2	gggaaaaccaggtatgtggaag	atggtcggttctcttccaac
Rbbp7	tcttgactagcgagagagaag	acgctcctccacagtatcttc
Sfrs9	ctggtgtcacttcttcaatc	ggcaaactgcaagacacttag
Cdc42	cagttcctcgttcttagcag	gttaaccggggtacatag
Crk	ggactatgtgcttagcgtctc	accacctccacaaggggaag
Lman1	cctccttgcttctgctc	tgtttcagtcacagggcaatg
Fam50a	gatgttggtgagactccttg	aatgtccagaccctggaattc
Il4ra-upstream	acagcaagatgtggtggcttg	cgctggtgtccttatttac
H1c-upstream	gccaaggctcctttatag	gcagtacgccgatagagtag
Pax5-upstream2kb	ccgaaagctaacacaggtttc	gcaccggacatcgcaattc
Pax5-upstream1kb	gctgaatgggacctagatac	gaaatggacagcgaggaaaag
Myc-upstream2kb	ctcacttgatactgtgactc	cagtagcgtgtataaggtgctc
Myc-upstream1kb	ctggaagaatgtgccagctc	gaaagaggaggaggagcctc
Pim1-upstream (65C)	aaatctccgggaaacacagag	gagtcggaggacgactgag
Grap-upstream	gagaggagacggttgaag	accagcagctacagcttc
IgSu	gtaaggaggaccaggctaaag	cagtcagtgtaggcagtaga
IgCu	tcctcagagagctcagctcttc	cacggcaggtgtacacattc