

gene_id	locus	Bitter (average RPKM)	Sweet (average RPKM)
Rn45s	chr17:39979941-39985774	11081.73	11014.91333
Malat1	chr19:5795689-5802671	8897.063333	7926.053333
Gnat3	chr5:17468387-17525486	7032.633333	2164.426667
Tas2r118	chr6:23919160-23920060	2652.88	191.8672
Calm2	chr17:87832740-87846275	2226.073333	3029.243333
Rpl41	chr10:127985165-127986224	1771.656667	2455.086667
Gng13	chr17:25854116-25856047	1757.043333	1246.152667
Gnb3	chr6:124784257-124790293	1753.483333	1222.204333
Anxa4	chr6:86686833-86743578	1438.023333	2047.956667
Plcb2	chr2:118533252-118554174	1243.376667	2301.21
Neat1	chr19:5842301-5845478	1127.253333	193.3866667
Lars2	chr9:123276057-123371782	1064.750667	1201.365667
Mir546	chr10:126435495-126435616	1050.851333	1725.506667
Actb	chr5:143664794-143668403	960.833	964.2713333
Trpm5	chr7:150257433-150280547	907.8946667	552.342
Ptma	chr1:88423310-88427273	898.272	697.176
Tas2r138	chr6:40562313-40563309	853.021	32.84176667
Egr1	chr18:35020860-35024610	842.4353333	623.5863333
Hsp90b1	chr10:86153585-86168189	836.2936667	903.8106667
Atp5b	chr10:127520362-127527444	812.847	1005.606667
Eef1a1	chr9:78326260-78329531	812.1783333	1517.136667
Krt19	chr11:100002125-100007233	811.4086667	402.8933333
Hsp90ab1	chr17:45704726-45710210	783.2853333	887.2616667
Tuba1a	chr15:98780277-98783932	740.1193333	717.1663333
Ivns1abp	chr1:153191627-153211575	736.6293333	648.361
Ubb	chr11:62365005-62366714	736.4526667	578.777
Ywhaz	chr15:36700015-36726684	714.8866667	884.6103333
Ywhae	chr11:75546388-75579343	683.512	786.1296667
Ddx17	chr15:79358125-79377171	645.323	319.7683333
Tas2r105	chr6:131636578-131637481	639.2	1.99852
Tas2r104	chr6:131634853-131635762	628.9263333	1.587863333
Snora31	chr14:76247729-76247841	628.362	828.7993333
Ubc	chr5:125866334-125870387	615.645	523.7923333
DOH4S114	chr18:33596672-33623683	612.9513333	240.8843333
Mir703	chr5:98904574-98904683	609.818	1724.046667
Tas2r139	chr6:42090934-42091894	603.1676667	4.094214333
Cap1	chr4:122536470-122563124	602.3873333	302.0773333
Krt18	chr15:101858646-101862457	593.306	722.623
Fth1	chr19:10057192-10059582	575.3666667	439.3153333
Crip1	chr12:114390222-114392090	569.939	757.862
Expi	chr11:83522505-83524862	554.7303333	886.8227
Rab7	chr6:87950428-87963684	549.8746667	556.115
Hspa8	chr9:40609355-40613282	529.692	689.7173333
Sod1	chr16:90220986-90226569	526.4346667	487.8916667
Capns1	chr7:30971960-30980067	524.9466667	380.213
1810046K07Rik	chr9:51097790-51137022	524.6036667	318.1033333
Avil	chr10:126437764-126458050	519	236.564
Plac8	chr5:100982751-101001224	509.697	84.4809
Cdkn1a	chr17:29227930-29237667	506.5236667	322.4053333
Lrmp	chr6:145070258-145123448	506.051	844.743
Myl12b	chr17:71323302-71339856	504.7273333	348.9333333

Gm1821	chr14:46703701-46704632	500.0256667	377.867
Rpl32	chr6:115755531-115758761	493.5656667	771.273
H3f3a	chr1:182732698-182743734	487.7883333	507.393
Plk2	chr13:111185251-111191051	484.6296667	267.9846667
Cited2	chr10:174430333-17445480	475.734	136.5236667
Actg1	chr11:120207003-120209798	470.9776667	550.7906667
Atp1b1	chr1:166367397-166388486	468.7873333	523.8493333
Uqcr10	chr11:4601970-4604347	464.0006667	480.2733333
Fos	chr12:86814850-86818219	463.666	380.088
Rps24	chr14:25309902-25315368	456.5613333	483.558
Tas2r106	chr6:131627977-131628904	444.279	3.561313
Rpl36al	chr12:70283720-70285054	432.2136667	480.463
Tmsb4x	chrX:163645025-163647150	417.4736667	280.123
Rps9	chr7:3655642-3658499	415.3216667	602.3116667
Ascl2	chr7:150152726-150155169	413.4346667	261.8766667
Cox6a1	chr5:115795662-115798964	408.5853333	435.269
Abhd2	chr7:86418151-86506487	407.8676667	365.3783333
Pou2f3	chr9:42932021-43013838	400.4706667	487.7493333
Zfp36	chr7:29161802-29164247	400.326	356.4213333
Xist	chrX:100655711-100678572	400.1325367	262.726629
Rpl4	chr9:64021193-64026369	390.601	724.4983333
Rps15	chr10:79755175-79756859	388.125	608.0516667
B3gnt2	chr11:22734738-22760336	386.8513333	135.9708
Gnas	chr2:174109820-174172243	381.4046667	758.4666667
Mt4	chr8:96661103-96662931	378.094	1496.04
Jun	chr4:94715726-94718913	376	266.3463333
Eif1	chr11:100181309-100183410	375.222	260.061
Fxyd6	chr9:45178267-45204242	370.0483333	833.5923333
Rpl39	chrX:34622514-34625179	366.5736667	661.568
Tsc22d1	chr14:76815627-76907573	361.706	284.7336667
Lpgat1	chr1:193541902-193608134	361.5143333	92.88363333
Tas2r108	chr6:40443590-40444484	361.278	56.31576667
Cd24a	chr10:43298974-43304071	355.925	486.7363333
Mir686	chr14:55235513-55235622	352.7253333	233.2923333
Krtdap	chr7:31572923-31576102	349.7616667	972.7366667
Ost4	chr5:31208890-31210161	349.7283333	312.046
Commd1	chr11:22799727-22882284	347.2063333	71.28666667
Krt8	chr15:101827141-101834773	343.419	317.6756667
Eya1	chr1:14159038-14300280	341.9906667	81.05386667
Mrfap1	chr5:37186105-37187993	341.6116667	338.5916667
Rps5	chr7:13507659-13512035	336.0936667	493.9926667
H3f3b	chr11:115883274-115885818	332.0766667	268.6443333
Sprr1a	chr3:92287875-92289803	331.8743333	559.4126667
Hepacam2	chr6:3407088-3444498	325.8413333	408.479
Lgals9	chr11:78776480-78798426	322.0203333	36.91263667
Nlk	chr11:78380669-78510927	321.923	135.5087
Dusp1	chr17:26642535-26645417	320.221	631.668
Gapdh	chr6:125111869-125115601	317.0856667	241.1106667
F11r	chr1:173367691-173394724	316.9516667	121.9442333
Anp32b	chr4:46463988-46485395	316.341	247.5886667
Slitrk6	chr14:111147799-111154371	315.555	160.5536667
Cox6c	chr15:35861730-35868001	315.219	186.2573333

Uqcrh	chr4:115739569-115747675	309.4806667	228.8106667
Hspa5	chr2:34627609-34632049	307.5923333	596.2036667
Ppia	chr11:6315872-6319813	307.0636667	397.1726667
Car7	chr8:107064706-107074243	303.971	73.98273333
Cox8a	chr19:7289647-7292106	303.6456667	550.0833333
Suox	chr10:128106942-128110974	303.1823333	104.9872333
Sh3bgrl	chrX:106290745-106357806	302.4083333	80.43036667
Prom2	chr2:127352688-127367153	301.902	244.5353333
Rpl10a	chr17:28465415-28467978	300.8006667	485.6163333
Arf3	chr15:98568056-98593549	300.256	232.1333333
Atf3	chr1:192994175-193007212	300.222	154.901
Ero1lb	chr13:12658149-12701795	300.1246667	342.7026667
Atf4	chr15:80085613-80087971	296.815	314.547
Dsp	chr13:38243162-38290446	295.0686667	443.6033333
Eef2	chr10:80639375-80645254	294.9473333	411.623
Snora30	chr7:134671410-134671517	294.549	330.2573333
Tas2r116	chr6:132805455-132806373	293.7426667	0.315149667
Kctd12	chr14:103375797-103381854	292.4736667	213.6403333
Ftl1	chr7:52713313-52715256	292.3463333	262.6713333
2700089E24Rik	chr6:133055256-133057764	290.3796667	13.30001333
Pfn1	chr11:70465348-70468152	290.0363333	252.0923333
Ddx5	chr11:106641669-106649808	289.9533333	432.794
Sepw1	chr7:16502556-16507720	288.6556667	124.7421
Anxa1	chr19:20447923-20465161	287.7946667	280.5866667
Srrm2	chr17:23940153-23961710	287.0093333	270.7443333
Ptms	chr6:124863692-124867964	285.7906667	237.7293333
Rnasek	chr11:70051624-70053354	285.485	297.4723333
Epcam	chr17:88035318-88050467	283.2936667	283.0593333
Uba52	chr8:73032164-73034266	283.2853333	335.9986667
Krt13	chr11:99978909-99982809	279.512	1117.507
Tas2r137	chr6:40441236-40442238	279.189	52.9053
Rps21	chr2:179992083-179993149	277.6736667	425.1583333
Dazap2	chr15:100446092-100451192	275.3183333	234.0163333
2310001H17Rik	chr6:129182640-129188500	273.615	31.67216667
Atp5e	chr2:174286575-174289602	271.4056667	462.4396667
Psip1	chr4:83101584-83132294	271.276	224.6443333
Snora21	chr11:97642952-97643080	270.118	140.862
Aplp2	chr9:30957141-31019400	268.6676667	287.162
Atp5k	chr5:108862271-108863397	266.7933333	191.5076667
Tas2r117	chr6:132752918-132753911	266.3143333	0.883096667
Gclc	chr9:77602341-77642296	262.639	204.3023333
S100a6	chr3:90416815-90418336	262.2566667	264.883
Aldoa	chr7:133938747-133943961	255.0443333	154.5243333
Gnai2	chr9:107516468-107537673	254.6626667	210.739
Cox4i1	chr8:123192189-123198109	253.3353333	291.783
Ociad2	chr5:73713437-73729878	253.1496667	84.85986667
Krt6a	chr15:101520358-101524736	252.7163333	581.832
Hnrnp1	chr11:50191220-50200030	252.5216667	266.002
2410006H16Rik	chr11:62416378-62418308	249.1493333	219.5766667
Calm1	chr12:101437750-101448016	248.9413333	398.4016667
Tpt1	chr14:76245062-76248110	248.719	277.923
Prnp	chr2:131735663-131764167	248.6653333	315.547

Ly6g6c	chr17:35204269-35206993	248.2076667	321.9821
Hnrnpa2b1	chr6:51410433-51419893	247.672	277.4726667
Ccdc28b	chr4:129296517-129301152	247.2203333	94.3186
Rpl38	chr11:114529856-114533645	247.0196667	192.0511667
Dynlrb1	chr2:155062268-155076013	246.6633333	348.6906667
Lcp1	chr14:75530929-75630649	245.2843333	147.273
Rps3a	chr3:85941861-85946590	245.1173333	256.4506667
1700003M07Rik	chr4:129637617-129642382	245.1133333	3.89726
Tpm1	chr9:66870399-66897020	244.309	262.3476667
Rplp2-ps1	chr12:76731911-76732736	243.904	336.9536667
Ifitm2	chr7:148140737-148141860	243.1783333	336.302
Tbca	chr13:95558897-95612854	242.3826667	217.2113333
Hist1h4d	chr13:23673470-23673782	242.338	134.6751
Gdi1	chrX:71550350-71557206	242.162	225.0006667
Lima1	chr15:99608898-99705887	241.9553333	162.632
Perp	chr10:18564876-18576878	240.9476667	538.7763333
Ano7	chr1:95270472-95300079	239.055	208.1476667
Cox6b1	chr7:31401992-31411170	237.968	243.155
H2-D1	chr17:35400038-35404442	236.9823333	157.575
Arf1	chr11:59024913-59041769	233.5373333	188.2313333
Snora24	chr3:123210854-123210984	233.4283333	12.13753333
Atpif1	chr4:132086469-132089574	233.253	320.0263333
Krt4	chr15:101748965-101755166	232.6616667	885.625
Hsbp1	chr8:121868437-121872829	230.7803333	184.6256667
Klf5	chr14:99697909-99712628	229.7533333	170.5546667
Srsf5	chr12:82046490-82051494	229.7436667	198.206
Atp2a3	chr11:72774670-72806545	229.2336667	312.597
Tob1	chr11:94072767-94076806	228.443	178.4233333
Rps14	chr18:60934249-60938200	226.7223333	350.4266667
Rpl8	chr15:76734500-76736748	225.6153333	243.716
Arcp2	chr1:74283123-74314787	224.7896667	209.0356667
Gm9786	chr10:80289440-80291962	223.224	168.3703333
Rassf6	chr5:91032101-91069513	222.5416667	76.99153333
Cdh1	chr8:109127267-109194146	222.315	304.1896667
Spag11a	chr8:19157886-19159578	222.3053333	0
Tuba1b	chr15:98761861-98764821	222.175	225.073
Lamp1	chr8:13159134-13175338	221.3663333	193.978
Tas2r121	chr6:132650107-132651025	221.0813333	0.139493667
Chi3l1	chr1:136078980-136086608	219.795	123.9319667
Nupr1	chr7:133766759-133768984	219.1026667	82.538
Cfl1	chr19:5490454-5494031	215.6093333	256.2643333
Rps11	chr7:52377757-52379759	214.3803333	350.1656667
Mir708	chr7:103397933-103398042	214.3763333	0
Gnb1	chr4:154865469-154933378	211.8363333	176.1713333
Rplp1	chr9:61761089-61762317	210.8086667	226.548
Cpeb4	chr11:31772210-31831577	210.772	302.1963333
Gm10012	chr17:26038800-26039172	210.1446667	151.918
Nek2	chr1:193645351-193656928	209.728	30.11813333
Rps26	chr10:128061584-128063562	209.267	330.626
2700029M09Rik	chr8:63369247-63386369	208.74	75.58633333
Mir1192	chr19:23223920-23224041	208.5485	193.451
Msi2	chr11:88152883-88579581	208.267	154.2666667

Slc2a1	chr4:118781349-118809934	207.3926667	162.8796667
Dad1	chr14:54855159-54873604	206.5453333	135.7296667
Gm6682	chr12:4788975-4790318	206.216	232.9203333
Rab1	chr11:20101604-20126859	206.1776667	228.8206667
Btg2	chr1:135971441-135975732	206.1603333	208.2
Bag1	chr4:40883430-40895327	205.9883333	72.49603333
Gsta4	chr9:78039772-78057156	205.225	372.0553333
Dap	chr15:31154139-31204093	205.2226667	180.183
Ank	chr15:27396431-27524662	204.2436667	138.4593333
Dstn	chr2:143741066-143769060	204.091	363.5506667
Cox17	chr16:38347084-38352849	202.9216667	89.69176667
Rpl29	chr9:106331869-106333898	202.8963333	245.3086667
Tas2r134	chr2:51483030-51483927	202.3753333	5.351960667
L1cam	chrX:71099118-71126173	201.152	86.2428
Vamp2	chr11:68902029-68905883	200.7926667	133.4066667
Slc38a2	chr15:96517822-96530129	200.5593333	185.0293333
Klf3	chr5:65194761-65221368	199.8976667	222.1636667
Tuba1c	chr15:98860321-98868536	199.7383333	192.482
Snrnp70	chr7:52631823-52651017	199.4216667	151.631
Rps4x	chrX:99380281-99383710	198.352	400.5386667
Ly6d	chr15:74592485-74593997	197.9927	365.337
Txn1	chr4:57956244-57969283	197.982	169.188
Eif4g2	chr7:118211498-118226544	195.6733333	238.228
Atp5a1	chr18:78012506-78021607	194.1856667	185.7686667
Snora33	chr10:23505152-23505257	194.163	202.891
Cnbp	chr6:87792608-87801100	193.4106667	258.2023333
Csda	chr6:131314875-131338468	192.8373333	152.3406667
Ndufb9	chr15:58765364-58771044	192.8246667	167.0342333
Akr1a1	chr4:116309114-116324279	192.7906667	148.5726667
Fetub	chr16:22918454-22939841	192.5666667	141.1397333
Rtn4	chr11:29592897-29644414	191.3136667	125.7354333
Gm5148	chr3:37613111-37623282	191.2976667	257.0776667
Gm5480	chr16:5007380-5008401	190.8726667	139.901
Srsf2	chr11:116711210-116714408	190.222	264.545
Ecm1	chr3:95538070-95543492	189.5349	74.72363333
Stk38	chr17:29107829-29144882	188.0793333	77.19053333
Tas2r131	chr6:132906929-132907862	186.4833333	2.519983667
5033414D02Rik	chr19:29423166-29436361	185.523	109.2489333
2410022L05Rik	chr8:13884787-13890271	185.3866667	125.4953333
Sec14l1	chr11:116976485-117020582	184.412	138.7906667
Atp5l	chr9:44721330-44728825	184.1176667	183.1286667
Cox7c	chr13:86184402-86186400	184.089	147.412
Ube2e3	chr2:78709203-78760740	183.4786667	71.48133333
Ethe1	chr7:25372561-25393944	183.2986667	130.3756333
Rps20	chr4:3761619-3762747	181.878	395.4
Myl6	chr10:127927916-127930881	181.206	158.787
Ctnnb1	chr9:120842517-120869625	180.8093333	242.941
Nedd8	chr14:56281103-56290743	180.7793333	215.704
Anxa2	chr9:69301489-69339592	180.2756667	213.419
Itm2b	chr14:73762038-73785078	179.1213333	219.1843333
Pabpc1	chr15:36525412-36538728	179.0026667	272.342
Rps17	chr7:88487618-88490120	178.6776667	259.6633333

Srsf3	chr17:29169604-29180317	177.0323333	220.3303333
Fosb	chr7:19888044-19895394	176.4931667	145.533
Zfp207	chr11:80196780-80219375	176.193	152.7246667
Oaz1	chr10:80289400-80292035	176.0856667	87.6917
Dmxl2	chr9:54212964-54349433	173.99	77.80496667
Eif4a2	chr16:23107551-23114205	173.65	230.785
Tecr	chr8:86095596-86118390	172.8573333	302.0536667
Rps27l	chr9:66793924-66797316	172.809	119.3682
Tgm3	chr2:129838109-129876135	172.1143333	219.614
D730040F13Rik	chr4:56888884-56960301	171.6906667	49.40886667
Snora41	chr1:63225596-63225709	171.4783333	77.031
Tas2r102	chr6:132712148-132713192	170.2616667	1.673033667
Pomp	chr5:148672203-148687354	169.8806667	299.097
Arpc5	chr1:154613671-154622710	169.7493333	151.772
Gm12070	chr11:26685107-26687859	169.7036667	135.4053333
Mif	chr10:75322097-75322995	168.039	114.6922333
Lyz2	chr10:116714596-116719328	167.9797	433.9781333
Tmem66	chr8:35217616-35233901	166.837	115.1301
Eif3a	chr19:60837018-60866596	166.2066667	172.875
Twsg1	chr17:66272404-66300527	165.9453333	161.3653333
Spag11b	chr8:19140758-19143010	165.1983333	0.570884333
Gm9846	chr3:90016588-90017569	165.0417	292.902
Rhoa	chr9:108208535-108240270	164.856	178.399
Smarca2	chr19:26679649-26852811	164.533	202.706
Basp1	chr15:25293031-25343519	164.1713333	152.9656667
Tspan13	chr12:36741141-36769065	164.005	213.523
Tmem50b	chr16:91574752-91597925	163.78	393.0973333
Hspb1	chr5:136363788-136365433	163.722	205.8786667
2010107E04Rik	chr12:113199586-113205188	162.9891667	212.1503333
Fezf1	chr6:23195046-23198264	162.9546667	1.1872704
Leng8	chr7:4088657-4099775	162.54	108.2374
Cat	chr2:103294060-103325310	162.174	131.7866667
Prrc2c	chr1:164601915-164670687	161.4513333	135.9233333
Dhrs1	chr14:56357856-56364521	160.821	179.9298
Six1	chr12:74142813-74147699	160.808	234.851
Smpdl3a	chr10:57514349-57531636	160.7923333	37.41496667
Atp5c1	chr2:9977658-10002137	160.6986667	150.4566667
Skp1a	chr11:52045496-52060360	160.109	169.642
lfitm3	chr7:148195488-148196643	159.951	167.4413333
Gcnt2	chr13:40955136-41056261	159.465	23.07506667
Anapc13	chr9:102528625-102536574	158.8333333	195.4753333
Rab2a	chr4:8462790-8534849	156.8716667	202.2806667
Mctp1	chr13:76522408-77171071	156.1116667	87.92126667
4833423E24Rik	chr2:85324248-85359092	155.9836667	90.5057
B230120H23Rik	chr2:72123693-72280667	155.7633333	69.48153333
Pfdn5	chr15:102156546-102161920	155.2808667	136.9760667
Tas2r129	chr6:132901119-132902082	154.8986667	0.044685333
Cnfn	chr7:26152634-26154743	154.5168333	368.0671
Olfr461	chr6:40494034-40494976	154.0423	63.82053333
Ndufa4	chr6:11850372-11857446	153.5429333	236.032
Snhg1	chr19:8797976-8800816	153.0112	217.694
Rpl14	chr9:120480633-120483770	152.428	233.8656667

Snora75	chr1:88247744-88247860	152.1024667	78.14076667
Hsp90aa1	chr12:111929245-111934605	151.817	183.6463667
Tcf25	chr8:125897652-125928073	151.781	107.9976
Tas2r113	chr6:132843028-132843958	151.7733333	0.105871333
Cuta	chr17:27074916-27076423	150.9821667	126.7442667
Satb2	chr1:56850824-57028178	150.8993333	76.50846667
Mrps21	chr3:95666574-95674542	150.7883333	151.6316667
Anxa6	chr11:54792463-54846973	150.5016667	46.16126667
Rps18	chr17:34088943-34092586	150.4346667	261.4606667
H2-K1	chr17:34132956-34137278	150.194	178.7363333
Cd164	chr10:41239305-41250848	149.591	201.988
Rps23	chr13:91062726-91064337	149.5823333	202.324
Ctnnd1	chr2:84440937-84490897	149.241	177.533
2310003F16Rik	chr2:121282823-121284176	149.1879333	66.86226333
Fbxo25	chr8:13907805-13940521	148.1503333	34.53076333
Rps10	chr17:27767373-27772187	148.059	236.0353333
Fam36a	chr1:180249283-180252824	147.4953333	64.69406667
Gabarap	chr11:69804871-69808451	147.3884333	106.9737667
Atp5j	chr16:84828115-84835819	147.2819	127.4924
Gm7534	chr4:133746718-133758919	147.0183333	8.977533333
Ttll10	chr4:155408945-155424926	146.8643333	30.43376667
Hint1	chr11:54679939-54683998	146.7101	115.5678667
Hspa4	chr11:53073315-53113981	146.6033333	110.9742
Klf7	chr1:64082246-64167963	146.4736667	53.66183333
Mpp6	chr6:50060239-50148597	145.8201333	37.24656667
Pla2g16	chr19:7631948-7663035	145.342	43.57293333
Atp1a1	chr3:101380141-101408630	145.038	350.3636667
Inpp5b	chr4:124419121-124478755	144.782	158
Gnb2l1	chr11:48613861-48619743	144.1983333	238.6796667
Plagl1	chr10:12810593-12851501	144.0186667	176.2956667
Krt17	chr11:100117530-100122303	143.9204667	42.49933333
Atp5g3	chr2:73746506-73749351	143.3796667	167.5123333
Srp14	chr2:118301578-118305432	143.29	115.4119333
Uqcrcq	chr11:53242449-53244333	143.2703333	129.0910667
Rpl36	chr17:56752817-56753669	142.8666667	182.6116667
Atp5d	chr10:79605059-79608563	142.8653333	206.4116667
Cdc42	chr4:136875610-136913674	142.4936667	167.413
Matk	chr10:80720289-80725726	142.3976667	87.11763333
Ywhah	chr5:33361464-33370615	141.4993333	80.38136667
Pdma7	chr2:179771080-179777107	141.474	162.6173333
S100a11	chr3:93324417-93330210	141.3843333	383.5653333
Rps6	chr4:86500002-86503271	141.3543333	255.687
Ehf	chr2:103103589-103143353	140.9026667	61.2893
Luc7l3	chr11:94152452-94183225	140.784	97.54703333
D4Wsu53e	chr4:134479539-134483285	140.3216667	101.1872667
Elf3	chr1:137150150-137155049	140.2916667	104.9259667
Pnn	chr12:60167905-60175004	140.2476667	85.92126667
Ik	chr18:36904309-36917293	139.8426667	122.6356333
1810046J19Rik	chr11:98299021-98300302	139.3346667	206.4283333
Tppp3	chr8:107991391-107995322	138.8736667	249.7676667
Gm5506	chr4:149611432-149622982	138.614	64.87386667
Hspa1a	chr17:35106303-35109101	138.2346667	112.5477333

Fut2	chr7:52903964-52921678	138.195	60.2511
Fau	chr19:6057887-6059524	138.0863333	185.4543333
Upp1	chr11:9018010-9036173	137.1049	102.3151
Cd300lf	chr11:114977527-114995306	137.0327667	15.68669667
Cdadc1	chr14:60178224-60216796	136.9253333	50.6563
Rps3	chr7:106626406-106632219	136.179	275.9533333
Snora44	chr4:131865867-131865984	136.1416667	0
Rpl35	chr2:38857100-38860651	136.129	161.095
Fkbp1a	chr2:151368234-151387427	135.924	164.9311333
Cstb	chr10:77888414-77890367	135.8273333	141.4155
Gpx3	chr11:54716354-54723889	135.762	185.9686667
Pnrc1	chr4:33332397-33335762	135.7556667	78.9192
Hist1h1c	chr13:23830675-23832236	135.2531667	53.37386667
Fam25c	chr14:35165067-35168579	135.1806667	261.8663333
Krt5	chr15:101537500-101543322	135.0313333	258.8473333
Tmbim6	chr15:99223377-99240480	134.9886667	139.448
Klf6	chr13:5860734-5869639	134.8958333	171.229
Vamp8	chr6:72335214-72340661	134.8549333	117.2702333
Spnb2	chr11:29999394-30119772	134.756	116.6315333
Rbm39	chr2:155972974-156005976	134.6033333	108.7697
Polr1d	chr5:147889116-147922935	134.2736667	131.4473333
Aldh3a2	chr11:61058256-61080629	134.1633333	75.32746667
Bccip	chr7:140901015-140912828	134.0727	46.75993333
Ogt	chrX:98835402-98879690	133.9306667	104.5524
Ndufc2	chr7:104548512-104556310	133.8456667	93.3295
Mcl1	chr3:95462642-95467101	132.9143333	111.9583333
Rnh1	chr7:148346224-148358750	132.8633333	85.4893
Ly6e	chr15:74785480-74790335	132.0524667	140.81
Dbi	chr1:122009856-122017673	131.9986667	343.8133333
Edf1	chr2:25413419-25417602	131.7243333	191.183
Rrp1	chr10:77863106-77875788	131.1763333	102.1991
Rps28	chr17:33959981-33961443	130.8283333	308.3306667
B2m	chr2:121973422-121978818	130.4572333	159.9866667
Golga4	chr9:118415435-118491637	130.3473333	79.3539
App	chr16:84954680-85173952	130.2996667	87.987
Cul4a	chr8:13105720-13147939	130.2743333	86.27356667
4933407C03Rik	chr8:119780918-119985405	130.051	102.9570667
Cd81	chr7:150238654-150253835	129.8726667	199.911
Gm15772	chr11:68715090-68718036	129.8707333	198.2363333
Hnrnpu	chr1:180258430-180267915	129.1946667	111.5592667
Nfe2l2	chr2:75513575-75542698	128.8591333	168.5633333
1500009L16Rik	chr10:83185609-83225507	128.5249	25.67653333
Chmp2a	chr7:13617354-13620126	128.4976667	79.60873333
Bsg	chr10:79167102-79174724	128.3027333	152.8056667
Btg1	chr10:96079634-96085445	128.2063333	158.852
Rbm5	chr9:107642825-107673333	128.0127667	103.4900333
Cul3	chr1:80263392-80337005	127.903	117.5764667
Nrxn3	chr12:89961319-91573373	127.7626667	17.65543333
Ndufa3	chr7:3568974-3571763	127.5869667	113.3256667
Itpr3	chr17:27194248-27259168	127.4406667	171.2756667
Sfrs18	chr4:21774729-21803622	127.339	80.8977
Tas2r119	chr15:32107043-32108049	127.269	3.037623667

Arhgdia	chr11:120438548-120442934	127.0756667	109.9767667
Gm12191	chr15:34370260-34372988	126.7406667	228.0196667
Kif1b	chr4:148550429-148681807	125.4016667	92.76883333
Cst3	chr2:148697467-148701204	125.0543333	168.7073333
Son	chr16:91648068-91679437	124.844	138.8226667
Capzb	chr4:138748845-138847727	124.5473333	87.3736667
Atxn2l	chr7:133635221-133646816	124.2216333	104.1597333
Psmc5	chr11:106117498-106124426	123.7111	106.2181667
Ier2	chr8:87185229-87186751	123.4178333	92.68653333
Cox7a2l	chr17:83901256-83913673	123.3844667	199.586
Mgll	chr6:88674405-88778354	122.579	3.632346667
Reep5	chr18:34504539-34533069	122.321	32.62723333
Nfe2l1	chr11:96678727-96691282	122.293	91.1133
Slc25a3	chr10:90579322-90586708	122.187	154.2203333
Hmgn1	chr16:96343194-96349332	121.9521333	142.5
Cox5a	chr9:57369038-57380233	121.8876333	120.9291333
Rpl18	chr7:52973440-52976205	121.651	195.869
Baz2b	chr2:59737419-59963797	121.4516667	74.367
Bola2	chr7:133839513-133840207	121.3007667	71.96533333
Chchd2	chr5:130357031-130363340	121.0846667	142.0295667
Spna2	chr2:29821079-29886970	121.0013333	83.73176667
6820431F20Rik	chr8:19991155-20020278	120.7233333	101.9567667
Calml4	chr9:62705910-62723724	120.4713333	44.42766667
Mbd2	chr18:70727945-70785785	120.3736	80.46726667
Ddx3x	chrX:12858147-12871109	120.2493333	138.0488
Dnajb1	chr8:86132073-86135802	120.1758	205.3493333
Clmn	chr12:106001323-106103286	120.1736667	101.4894667
Hnrnpab	chr11:51413601-51420383	120.1434333	151.0093333
Cox7a2	chr9:79603047-79607660	120.1413333	110.1324667
Slc25a5	chrX:34335646-34338801	120.136	172.6053333
Kif5b	chr18:6201002-6241522	120.012	131.3781667
H2afz	chr3:137527562-137529886	119.4623333	88.80943333
Mdh2	chr5:136254518-136266256	119.3836667	153.8543333
Clk1	chr1:58468831-58480932	119.1515333	184.7386667
Slc25a4	chr8:47292697-47296363	119.097	103.5434667
Sptlc2	chr12:88648838-88729180	119.0896667	107.9955667
Hap1	chr11:100208640-100217455	119.048	47.89483333
Hnrnp3	chr10:62477411-62486597	118.9524	55.95453333
Rpl13	chr8:125626249-125629142	118.9152	149.5326667
Ephb4	chr5:137791336-137815750	118.6203333	98.52126667
Serpnb6a	chr13:34009786-34094663	118.3506667	37.02203333
Hipk1	chr3:103543737-103595198	118.0633333	77.66746667
Rps25	chr9:44215796-44218489	117.933	166.791
Tas2r107	chr6:131609175-131610102	117.846	0
Mgea5	chr19:45824748-45857781	117.5787	121.6146667
2300002M23Rik	chr17:35704429-35705890	117.5723333	45.44676667
Snora47	chr13:96100565-96100691	117.526	11.96113333
Rpl19	chr11:97888023-97891807	117.1066667	165.0046667
Bpgm	chr6:34426355-34455610	117.1059667	138.8283333
Cbr2	chr11:120590798-120593335	117.0854667	247.3937
Flrt3	chr2:140483933-140497212	117.0019	29.86106667
Tnfaip8	chr18:50139080-50252883	116.6280333	35.159

Arhgef2	chr3:88420128-88451974	116.554	83.8006
Tas2r109	chr6:132930032-132930983	116.3148	0.205739
Cetn3	chr13:81922290-81936156	116.2407333	137.4696667
Psmb4	chr3:94688245-94690880	116.0316667	162.0256667
Eif5a	chr11:69730213-69735460	115.7552	214.8976667
Vps25	chr11:101115056-101120860	115.5982	66.53786667
Espn	chr4:151494984-151526316	115.2865667	71.92903333
Tax1bp1	chr6:52663722-52716773	115.2707	128.5546667
Gm5506	chr18:48204988-48208037	115.1022333	52.69056667
Prdx2	chr8:87493546-87498212	115.0906333	136.512
Mll5	chr5:22940246-23010047	114.887	91.64756667
Tas2r143	chr6:42350236-42351118	114.8487	20.062826
Prrc2b	chr2:32006667-32090057	114.6413333	92.3205
Tas2r144	chr6:42165326-42166286	114.5945667	0.089728
Tmem65	chr15:58613823-58654982	114.5553333	57.044
Tmem59	chr4:106851234-106873601	114.4073333	125.2986667
2510006D16Rik	chr4:129277950-129285123	114.4021667	86.38466667
Atp2a2	chr5:122903521-122952234	114.3424333	122.4271
Tas1r3	chr4:155233378-155237462	114.2756667	671.469
Myeov2	chr1:94533721-94538562	114.2169333	78.76116667
Asna1	chr8:87541829-87549177	114.1290333	61.76576667
Eif3c	chr7:133690424-133709880	114.1023333	83.02643333
lfi27l1	chr12:104672398-104678455	113.9343667	100.5709
Rpl7	chr1:16091375-16094514	113.8323	166.2323333
Actr3	chr1:127289481-127332304	113.556	82.02376667
Cox7b	chrX:103211038-103217789	113.5090667	122.9958
Psmab6	chr12:56499811-56519446	112.8377667	141.3779
Eif3g	chr9:20698792-20703034	112.3932667	125.9156667
Cpe	chr8:67071348-67171837	112.298	134.4226667
Rps8	chr4:116826440-116828737	112.2816667	146.8493333
Gdpc1	chr11:86847295-86887639	111.8022	97.00563333
Ccdc104	chr11:29121535-29147272	111.4936667	90.53313333
Ostf1	chr19:18654853-18706303	111.4227667	41.68606667
Atp6v0d1	chr8:108048369-108089940	111.28	92.02883333
Rab10	chr12:3247427-3309969	111.2033333	129.0126333
Snhg3	chr4:131907847-131909601	110.9203333	45.62676667
Snord22	chr19:8800355-8800481	110.6394667	293.3053333
Papss1	chr3:131227731-131306635	110.5238333	39.6188
Dgki	chr6:36796021-37249976	110.516	90.35496667
Brd2	chr17:34248963-34259552	110.4056667	125.369
Baiap2l1	chr5:145025393-145118981	110.3188333	19.041
Ddx39b	chr17:35378690-35390652	109.7804	92.7863
Csde1	chr3:102824468-102862112	109.6712	122.4096667
Spint2	chr7:30041348-30066996	109.6377667	131.2376667
Atp5j2	chr5:145944574-145952461	109.6124667	114.5051333
Apobec1	chr6:122527809-122552462	109.4942333	21.47015667
Cct2	chr10:116488053-116500870	109.4210333	124.4709333
Psmb7	chr2:38443565-38499426	109.3148667	150.189
Rac1	chr5:144266348-144288861	108.8175	153.847
Ppp1ca	chr19:4192173-4195419	108.8102	124.8541333
Calr	chr8:87365986-87370830	108.702	223.5266667
Papola	chr12:107022911-107077153	108.3156667	86.90046667

S100a1	chr3:90314955-90318252	108.1206333	69.21124
Pip5k1b	chr19:24369285-24630317	108.0326667	90.24656667
Lpcat4	chr2:112079997-112087268	108.0087333	202.1573333
Prox1	chr1:191945657-191994559	107.9739	115.5866667
Cadps2	chr6:23212773-23789421	107.9299	283.519
Fam49a	chr12:12268944-12383167	107.9094333	40.12866667
Sec24b	chr3:129686102-129763825	107.3996667	67.2856
Ptp4a2	chr4:129497722-129527247	107.3886	156.7446667
Rplp2	chr7:148633548-148637241	107.3257333	158.414
Alcam	chr16:52249108-52453110	107.1187333	77.16306667
2810403A07Rik	chr3:88489715-88516855	106.8474333	65.59243333
Prkar1a	chr11:109512262-109530962	106.8186667	89.5021
Atox1	chr11:55260144-55274640	106.5927333	95.23076667
Dctn3	chr4:41661829-41670195	106.0630333	124.2293667
Rexo2	chr9:48276618-48288716	106.0284333	75.57816667
Hsph1	chr5:150419419-150438890	105.9827667	130.9726667
Rpl7a	chr2:26766326-26768831	105.8184667	165.5526667
Ano10	chr9:122084996-122203492	105.8015667	28.0666
Fxyd3	chr7:31855553-31861716	105.6855667	92.22593333
Tubb4b	chr2:25077677-25080222	105.3305	126.1213333
Rpl11	chr4:135605862-135609286	105.2647	159.9056667
Hist2h2be	chr3:96025043-96027661	105.1433667	51.6399
Rtn3	chr19:7500390-7557779	105.0566667	131.2356667
Tagln2	chr1:174430376-174437506	104.4584333	320.036
Prpf38b	chr3:108705724-108714622	104.3215333	99.0688
Ddit4l	chr3:137286635-137291296	104.2232333	45.3825
BC031181	chr18:75165553-75169587	103.9158667	139.2771
Vps28	chr15:76452517-76456457	103.8171333	73.4987
Eif5b	chr1:38054854-38112424	103.6306667	66.70733333
Snora70	chrX:71517830-71517959	103.5938667	165.6328667
Ckmt1	chr2:121184376-121189473	103.5198333	54.934
Sort1	chr3:108087049-108164429	103.4426	93.24256667
Rpl37a	chr1:72757833-72760387	102.9118	124.5443667
Dpy30	chr17:74698813-74723284	102.7056667	109.4006667
Ssbp1	chr6:40421413-40431822	102.7014333	65.34793333
Higd2a	chr13:54691591-54692508	102.6088333	116.467
Myst3	chr8:23970010-24053734	102.5387	61.70076667
Atp6ap1	chrX:71542435-71550060	102.3437667	101.6369333
Cs	chr10:127774887-127799535	102.3352333	82.2919
Rsrc2	chr5:124178438-124199421	102.1220333	96.44396667
Ywhab	chr2:163820932-163844323	102.0684333	121.382
Sar1b	chr11:51577164-51605455	102.008	57.63093333
Atp6v1d	chr12:79943968-79962625	101.9119667	59.8175
Sumo1	chr1:59696277-59727678	101.8571	88.00553333
Gm12657	chr4:94260340-94267010	101.6904667	108.5293333
Atp6v1f	chr6:29417782-29420509	101.5073667	58.3427
Atat1	chr17:36034540-36047013	101.403	41.5333
Lin7c	chr2:109731034-109741093	101.1710333	80.72556667
Tsr1	chr11:74711581-74722842	100.8873667	59.8936
Prelid1	chr13:55423415-55426633	100.6136333	87.98026667
Rbm15b	chr9:106786315-106789331	100.5661667	18.00831667
Tpr	chr1:152239967-152297065	100.3511333	105.5367333

Hspd1	chr1:55134677-55144776	100.2593333	88.07866667
Hspa4l	chr3:40549534-40594287	100.2086667	61.74656667
1110007C09Rik	chr13:49298319-49311395	100.1614667	77.56596667
Rab6a	chr7:107756099-107789782	100.0337667	66.61443333
Gatad2b	chr3:90145575-90162042	99.87173333	96.29533333
Rpl18a	chr8:73418620-73421342	99.7618	199.6913333
Rpl13a	chr7:52380932-52384115	99.45043333	161.973
Nrbp2	chr15:75916023-75920443	99.4396	125.682
Tmed9	chr13:55694495-55699055	99.19766667	167.723
Tmem176b	chr6:48783810-48791373	99.16046667	214.602
Scarna3b	chr12:81492600-81492724	98.97633333	26.5166
Dtna	chr18:23573915-23818215	98.8932	34.8813
AI848100	chr1:163746242-163806792	98.53663333	56.155
Psmb2	chr4:126354886-126386959	98.32023333	131.8859
Abhd14b	chr9:106350970-106355249	98.29256667	13.49648
Clta	chr4:44025514-44045718	98.18443333	92.38896667
Mrpl52	chr14:55045745-55048587	98.17663333	107.9998667
Heatr7b1	chr1:90123594-90158864	97.93946667	17.88470333
AI597468	chr10:84565371-84580492	97.61426667	135.1233
Atf7ip	chr6:136467371-136555900	97.5955	119.3110333
Pdcd6ip	chr9:113560861-113617377	97.57733333	42.94616667
Cldn7	chr11:69778280-69781388	97.5229	69.7942
Csnk1a1	chr18:61715235-61747953	97.48963333	123.6286667
Snora65	chr2:32818820-32818938	97.26216667	85.38183333
Akirin2	chr4:34497863-34514157	97.23083333	44.21686667
Cct6a	chr5:130293260-130322231	97.1525	110.9210333
Mtap1b	chr13:100191418-100286557	97.0392	110.8243333
Rpl10	chrX:71516154-71518474	97.02383333	155.3956667
Cfdp1	chr8:114292372-114378210	97.00096667	78.8728
Cpm	chr10:117066555-117124408	96.9072	15.34846667
Chchd10	chr10:75398317-75400479	96.8673	67.71943333
Il10	chr1:132916421-132921547	96.65323333	23.3909
Trim44	chr2:102140275-102241057	96.5843	97.0436
Mrpl30	chr1:37947397-37955178	96.53286667	81.7688
Msln	chr17:25885557-25891272	96.52483333	58.97553333
Eif5	chr12:112776311-112784964	96.41276667	97.0233
Ypel2	chr11:86749926-86807264	96.13176667	85.1871
Tra2a	chr6:49193919-49214051	96.01773333	97.62306667
Cyp2f2	chr7:27904973-27918679	95.8223	385.4753
Grcc10	chr6:124689201-124691097	95.75553333	119.9968667
Aldh3a1	chr11:61022243-61031918	95.51233333	137.703
Lrrfip1	chr1:92895303-93025521	95.3671	60.80483333
Mfsd6	chr1:52713147-52784162	95.25106667	118.372
Llph	chr10:119664115-119669126	95.1257	50.13066667
Rgs2	chr1:145846467-145851279	94.97236667	47.55373333
Kcnip3	chr2:127282233-127347106	94.82793333	71.14736667
Rab25	chr3:88345950-88352201	94.79676667	117.2144
Ctsl	chr13:64464521-64471614	94.61696667	53.00416667
Vdac1	chr11:52174616-52202898	94.55776667	136.1296333
Eif4a1	chr11:69480437-69485925	94.42296667	141.2043333
Ndufa7	chr17:33961558-33975258	94.28036667	82.47226667
Zfp609	chr9:65539389-65675371	94.1163	54.47683333

A630073D07Rik	chr6:132575128-132577529	94.09416667	0
Tas2r126	chr6:42384533-42385460	94.0679	207.1616667
Eef1b2	chr1:63223404-63227060	93.96576667	113.6571
Sec11a	chr7:88060264-88092436	93.9265	45.46563333
Gpx1	chr9:108241410-108242673	93.90666667	98.44073333
Pof1b	chrX:109752035-109812260	93.75793333	68.69086667
Actr2	chr11:19962306-20012954	93.46093333	71.9141
Itga3	chr11:94905795-94938028	93.39373333	76.2701
Snpc5	chr9:64027103-64030495	93.22833333	53.1679
Caprin1	chr2:103603101-103637797	93.16903333	106.7198
Tspan1	chr4:115834485-115840203	93.0806	73.25893333
Ceacam1	chr7:26246720-26262644	93.02633333	53.93616667
Serbp1	chr6:67216972-67239296	92.86446667	88.45903333
Ctsd	chr7:149561820-149573775	92.8408	134.7513333
Fam120a	chr13:48974585-49063197	92.81286667	78.11656667
Dusp11	chr6:85892262-85911661	92.81046667	63.60803333
Ncl	chr1:88241293-88256030	92.66493333	82.17356667
Ndufv3	chr17:31657059-31668270	92.6271	142.0213333
Ndfip1	chr18:38578628-38624060	92.51496667	92.36993333
Ctnna1	chr18:35278565-35414429	92.35823333	119.4766667
Rpl17	chr18:75160130-75163035	92.33883333	129.9824
Lamp2	chrX:35758240-35809632	92.28313333	126.4636
1810019D21Rik	chr8:108659299-108662622	92.04846667	85.5545
4833439L19Rik	chr13:54652578-54666743	91.95403333	135.8854
Rps27	chr3:90016588-90017570	91.94926667	5.873362667
Rpl3	chr15:79908210-79913836	91.87586667	127.149
Tbcb	chr7:31009149-31017048	91.84856667	107.2016
Etl4	chr2:20211539-20732162	91.835	67.6122
Eid1	chr2:125498835-125501378	91.8313	94.8664
Irf6	chr1:194979305-194998229	91.7537	67.1495
Rod1	chr4:59484739-59562236	91.70063333	103.7822
Enpp5	chr17:44215794-44223510	91.6032	84.4483
Gfra2	chr14:71289936-71379645	91.49133333	102.5571667
Fat1	chr8:46035561-46137611	91.42466667	163.278
Smarcc2	chr10:127896291-127927230	91.3897	78.3519
Calm4	chr13:3837002-3837917	91.2499	148.5777
Eif3i	chr4:129269217-129277892	91.22473333	114.566
Ric8b	chr10:84380360-84479192	90.96466667	57.8422
Stx4a	chr7:134985321-134992479	90.70893333	66.1333
H1f0	chr15:78858641-78860930	90.68713333	123.8380667
Dync1h1	chr12:111839604-111905154	90.5938	92.00066667
Nsfl1c	chr2:151320043-151337040	90.5706	71.9083
Prdx1	chr4:116358203-116372605	90.55973333	131.178
Adnp	chr2:168006464-168032562	90.462	68.32753333
Fis1	chr5:137429144-137442104	90.46183333	55.11836667
Syf2	chr4:134486894-134493452	90.45896667	48.438
Cebpg	chr7:35831440-35841585	90.4088	48.79203333
Pabpn1	chr14:55512979-55517764	90.40266667	82.32183333
Mir24-2	chr8:86732713-86732820	90.30966667	0
Trak1	chr9:121276075-121384036	90.29463333	78.94763333
Tpi1	chr6:124760609-124764314	90.23346667	70.0063
Atp5g2	chr15:102493298-102501478	90.13803333	89.04923333

Dnm2	chr9:21229351-21312203	90.02016667	50.50616667
Pqlc3	chr12:16995453-17006924	89.9191	31.637
Pirt	chr11:66725492-66742202	89.9047	155.0683333
Trp53inp2	chr2:155207591-155215583	89.89956667	91.3763
Ppp3cc	chr14:70617704-70689256	89.86943333	19.84647333
Myo1d	chr11:80295628-80593527	89.85853333	30.26146667
Kctd13	chr7:134072392-134089123	89.6597	77.94233333
6820431F20Rik	chr8:19863863-19893010	89.3626	72.41806667
Cobll1	chr2:64926395-65076683	89.33923333	53.1438
Cmpk1	chr4:114633217-114659833	89.21973333	105.2428333
Pebp1	chr5:117732659-117737573	89.05586667	94.01236667
Tox3	chr8:92771010-92872151	88.68233333	73.7732
Pdia3	chr2:121239637-121264422	88.549	239.2933333
Rhob	chr12:8504564-8506791	88.46093333	117.4033667
Trappc3	chr4:125939648-125953127	88.34676667	72.93203333
Sfpq	chr4:126698544-126714258	88.24836667	112.2654
4933437F05Rik	chr12:88562072-88579551	88.22013333	7.54835
Rpl5	chr5:108329546-108338024	88.03	168.6453333
1600029D21Rik	chr9:50302629-50313744	87.99973333	102.8618
Gsto1	chr19:47929478-47939278	87.8027	172.398
Htatif2	chr7:57014475-57029369	87.6792	37.96243333
Dnajb11	chr16:22857917-22879707	87.42136667	93.84453333
Krcc1	chr6:71222012-71235313	87.38936667	53.5644
Bptf	chr11:106894394-106993236	87.2813	41.32983333
Trappc1	chr11:69137487-69139295	87.2398	139.2369
Dctn6	chr8:35153476-35171565	87.22493333	75.50333333
Pkp1	chr1:137767971-137815601	87.0955	135.752
Tas2r115	chr6:132687071-132688004	87.05543333	0.139620667
1500032L24Rik	chr15:82176475-82179492	86.9425	161.8963333
Oxct1	chr15:3976427-4105344	86.90826667	53.29583333
Ucp2	chr7:107641853-107650682	86.8871	106.2558667
1810037I17Rik	chr3:122627314-122629112	86.86836667	61.7412
Rpl9	chr5:65779602-65782670	86.743	109.2770333
Srrm1	chr4:134876398-134909129	86.70916667	63.13403333
Thoc7	chr14:14781527-14793739	86.62383333	91.45956667
Rbm25	chr12:84973183-85024073	86.56223333	77.6026
Lamtor2	chr3:88353740-88356849	86.4948	49.51903333
0610009B22Rik	chr11:51498886-51502136	86.35203333	93.6067
Crym	chr7:127329897-127345502	86.26453333	81.2579
Rpl23	chr11:97638839-97643753	86.15423333	111.4276667
Lasp1	chr11:97660985-97700078	86.13783333	101.7141
Clcn3	chr8:63389185-63462108	86.08523333	54.44966667
Epha7	chr4:28740294-28894649	86.0749	137.354
Polr2g	chr19:8867618-8873047	86.03353333	61.1665
Uba1	chrX:20235546-20260305	85.86066667	86.8408
Romo1	chr2:155969888-155971530	85.85286667	111.6826667
Mat2a	chr6:72382792-72389552	85.79366667	85.98286667
Ltc4s	chr11:50049973-50051973	85.7108	109.8776
Lipc	chr9:70645934-70782615	85.68786667	148.513
Lass2	chr3:95119173-95127490	85.66923333	80.00953333
Tas2r110	chr6:132818025-132819027	85.65346667	0.37855
Utp14b	chr1:78654399-78664176	85.59886667	23.27327333

Selk	chr14:30781565-30788260	85.4996	94.30966667
Txnip	chr3:96361879-96365780	85.3669	60.25836667
Sdcbp	chr4:6292826-6323269	85.23503333	60.80263333
Cyc1	chr15:76173952-76176364	85.16836667	58.71523333
Spop	chr11:95275396-95354724	85.0293	113.553
Map1lc3b	chr8:124114367-124121947	85.01533333	97.74303333
Ccpg1	chr9:72833357-72863806	84.95236667	117.5689333
Fbxo2	chr4:147534776-147540526	84.9421	14.1554
Bclaf1	chr10:20032274-20062307	84.8312	104.6463667
Ap1s2	chrX:160347091-160367478	84.72056667	41.88066667
Pcolce2	chr9:95538046-95595970	84.51053333	81.813
Eif3h	chr15:51618108-51697007	84.5054	95.27183333
Gramd1b	chr9:40105491-40263349	84.4917	44.55196667
C030046I01Rik	chr10:79372797-79379675	84.3626	130.407
Sec61a1	chr6:88453600-88468794	84.35176667	51.68816667
Dync1li2	chr8:106941573-106966947	84.33303333	41.06363333
Myo1e	chr9:70055156-70247874	83.9177	49.13636667
Atp6v1g1	chr4:63205798-63211735	83.90833333	86.34946667
Cyb5r1	chr1:136302566-136308315	83.84753333	53.859
Psme1	chr14:56197330-56200364	83.78576667	104.0462333
Klf4	chr4:55540008-55545347	83.68403333	146.6803333
Sf3b1	chr1:55042012-55084322	83.59813333	85.33693333
2810008D09Rik	chr11:116938096-116940269	83.542	7.635003333
4930455F23Rik	chr1:166205728-166217978	83.5107	45.24466667
Hnrnpf	chr6:117850357-117875640	83.49243333	79.3958
Tcp1	chr17:13109330-13117933	83.25813333	99.58326667
Atp5h	chr11:115277010-115281233	83.10926667	94.8561
Bdnf	chr2:109514856-109567200	83.10103333	20.5132
Ngfrap1	chrX:132804791-132806517	83.09506667	44.20206667
Hmgn5	chrX:106199875-106208719	83.03953333	108.7092333
Ywhaq	chr12:21396189-21423297	83.03566667	110.3020667
Ndufb3	chr1:58643442-58652792	82.97116667	79.43983333
Prrc2a	chr17:35286030-35301822	82.9705	70.7138
Anxa5	chr3:36347845-36374809	82.95466667	76.8511
Snhg12	chr4:131864592-131866939	82.86836667	71.8343
Lats1	chr10:7401006-7436259	82.82876667	75.03943333
Dnaja2	chr8:88061538-88079170	82.828	80.0796
Ewsr1	chr11:4969690-4999080	82.7638	87.97956667
Nedd4	chr9:72510153-72597655	82.72863333	120.9915667
Cops5	chr1:10014911-10027979	82.2763	84.17756667
Dynll1	chr5:115747118-115750999	82.24053333	131.9259667
Oxr1	chr15:41279027-41692593	82.1632	46.27963333
Eif4ebp2	chr10:60895244-60915417	82.15753333	86.74563333
Ckap4	chr10:83989049-83996633	82.14583333	132.5443667
Taf13	chr3:108374616-108384986	82.1199	99.08916667
Golph3	chr15:12251250-12281022	82.07096667	79.9774
Atrx	chrX:102992955-103124711	81.80353333	94.81976667
Fam171a1	chr2:3035659-3145081	81.5516	33.8355
Psma2	chr13:14705508-14717940	81.48643333	99.37506667
Rpl23a	chr11:77994436-77997086	81.37606667	142.5341667
Ahsa1	chr12:88607677-88614902	81.15906667	44.4399
Fus	chr7:135110992-135125545	80.9303	84.50416667

Psenen	chr7:31346884-31348203	80.86506667	68.79426667
Atp6v0b	chr4:117556934-117559934	80.7943	75.17876667
Nrd1	chr4:108673409-108734376	80.55353333	95.85883333
Hist1h2bc	chr13:23776067-23784349	80.51473333	75.45516667
Cd9	chr6:125410283-125444773	80.3881	209.481
Mbnl2	chr14:120674890-120830920	80.3643	57.2737
Nono	chrX:98624989-98643932	80.26526667	109.7265
Aes	chr10:81022304-81029109	80.2455	52.33593333
Nav2	chr7:56214442-56865458	80.19693333	125.0883333
Arhgap1	chr2:91490274-91512477	80.00573333	60.1689
Hnrpd1	chr5:100462597-100468241	79.90406667	70.49406667
Picalm	chr7:97278741-97357957	79.82793333	64.71226667
Cstf3	chr2:104430640-104505582	79.79033333	39.6934
Ndufs6	chr13:73457323-73465930	79.76686667	68.9769
Slc9a9	chr9:94570310-95130871	79.66473333	20.5659
Vdac3	chr8:23687546-23704285	79.57276667	90.76536667
Brd4	chr17:32333218-32421068	79.44976667	78.21803333
Psmc6	chr14:14944698-14953418	79.42986667	89.59083333
Camk2d	chr3:126299890-126547972	79.3954	29.2494
Cltc	chr11:86508154-86570994	79.38626667	94.0182
Eif2s3y	chrY:347054-365037	79.244821	61.8147393
Zcrb1	chr15:93216543-93228721	79.00846667	76.3936
Rcbtb1	chr14:59820064-59856102	78.95066667	48.27606667
Ubap2l	chr3:89803510-89856437	78.81906667	100.3043667
Mdh1	chr11:21456694-21471937	78.7837	86.03573333
Cdk2ap1	chr5:124795447-124804637	78.7382	84.7993
Uqcrc2	chr7:127778702-127803037	78.5908	45.09573333
Xpa	chr4:46188093-46209183	78.4573	54.18396667
Wbp2	chr11:115939886-115948278	78.435	46.77403333
Anapc16	chr10:59450656-59465860	78.41133333	40.0862
Sfr1	chr19:47806245-47810078	78.4077	78.44663333
Snora81	chr16:23110842-23111006	78.22183333	109.8517333
Lsm14a	chr7:35129738-35174559	77.97746667	73.86196667
Tmem223	chr19:8845485-8846965	77.6906	85.56906667
Sltm	chr9:70390584-70440039	77.6826	53.66876667
2500003M10Rik	chr3:90302879-90313365	77.60296667	68.2022
Shroom3	chr5:93112460-93394785	77.5733	41.45113333
Senp6	chr9:79914709-79992587	77.32986667	66.2279
Cox5b	chr1:36748331-36750233	77.3016	63.51683333
Gabarapl2	chr8:114464602-114476815	77.22486667	36.01546667
Cript	chr17:87424900-87435148	77.14883333	85.04873333
Gas5	chr1:162965296-162968668	77.13536667	114.0347333
Ptpn6	chr6:124670735-124688727	77.05403333	17.8288
Bmx	chrX:160630773-160696125	77.02286667	21.93306667
Mir1940	chr13:96100534-96100638	77.014	0
Fam71a	chr1:192986462-192988696	76.9934	15.4141
Srp19	chr18:34490798-34496253	76.95526667	37.7102
Daam1	chr12:72932064-73093354	76.93363333	65.039
Mrp63	chr14:58445075-58447582	76.88836667	18.79623333
Tmc4	chr7:3617355-3629155	76.85523333	109.7483333
Ybx1	chr4:118949931-118967118	76.85143333	84.56313333
Dynlt1b	chr17:6429259-6435443	76.82316667	107.2861667

Gm684	chr9:51078362-51086659	76.77943333	56.4509
Mlf2	chr6:124881405-124886167	76.7429	56.94243333
Zfp664	chr5:125343074-125369000	76.70533333	90.94626667
Atp5o	chr16:91925467-91931875	76.64626667	85.3474
Ctso	chr3:81736537-81760647	76.62846667	39.90463333
Hnrnmpm	chr17:33783177-33822403	76.56216667	48.6349
Sh3bgrl3	chr4:133683320-133684668	76.54156667	91.46636667
Pcbp2	chr15:102301062-102330490	76.53486667	83.11103333
Appl2	chr10:83062778-83111409	76.43906667	66.01713333
Hnrnpul2	chr19:8893890-8908632	76.39786667	78.24746667
Gm14005	chr2:128124398-128255087	76.37183333	0.251544333
Etfb	chr7:50699512-50713152	76.2615	86.26776667
Tacc2	chr7:137720997-137908298	76.26003333	39.7379
Tmem131	chr1:36849033-36996372	76.2497	59.4164
Nckap1	chr2:80341451-80421122	76.24443333	58.6963
Ssx2ip	chr3:146067605-146103101	76.23026667	55.2348
Ccdc47	chr11:106060669-106077681	76.2038	71.5201
Cyb5r3	chr15:82983931-83002638	76.17236667	117.5505333
Rpl6	chr5:121654509-121659250	76.11503333	126.2995667
Dapl1	chr2:59322709-59343078	76.0339	92.8076
Pfdn2	chr1:173275829-173288301	76.01706667	45.22353333
ldh3b	chr2:130105044-130110187	75.99893333	74.77806667
Arid1a	chr4:133234922-133309526	75.88483333	74.0132
Sdha	chr13:74459702-74487688	75.84106667	53.63633333
Gm10664	chr8:67552315-67561235	75.57863333	83.13743333
Chmp5	chr4:40895585-40912335	75.57436667	43.02006667
Shoc2	chr19:54018795-54107768	75.56776667	81.43416667
ltgb1	chr8:131209553-131257479	75.50236667	96.16786667
Lclat1	chr17:73457324-73592706	75.47863333	23.5955
Dusp10	chr1:185858339-185899515	75.42943333	88.2911
Clk4	chr11:51076672-51095266	75.3836	90.07893333
Ldha	chr7:54101173-54110997	75.21963333	120.6138333
Pnpla6	chr8:3515383-3544267	75.21583333	28.09543333
Snrpg	chr6:86321533-86328896	75.02523333	83.1593
Ythdc1	chr5:87233514-87265682	75.00336667	51.08443333
Lrch4	chr5:138070350-138082327	74.9338	102.6365
Rb1	chr14:73595308-73725598	74.8578	44.13763333
Anp32a	chr9:62189149-62226609	74.66596667	72.56746667
Lmo7	chr14:102129144-102333910	74.4764	50.7835
1300002E11Rik	chr16:21794419-21809112	74.34303333	41.96216667
Tmem159	chr7:127245939-127264500	74.1516	43.9589
Shfm1	chr6:6508274-6528658	74.11196667	84.9124
Bex4	chrX:132673583-132674976	74.10796667	10.88142433
Epb4.111	chr2:156246787-156368950	74.0778	58.8712
Cdh2	chr18:16747385-16967558	74.06113333	8.566903333
	1-Sep chr1:95375569-95406309	73.97226667	67.9835
Canx	chr11:50107458-50139175	73.90973333	135.935
Tmem126a	chr7:97599221-97605718	73.90726667	35.851
Paip2	chr18:35758320-35776839	73.9022	53.85596667
Pkm2	chr9:59504174-59527182	73.8836	111.7620667
Dhx15	chr5:52541447-52581758	73.71283333	83.81013333
BC056474	chr8:87604861-87606238	73.643	70.39906667

Trib1	chr15:59480208-59488654	73.6428	43.39973333
Bnip2	chr9:69837307-69856124	73.63683333	61.21066667
Cdh13	chr8:120807654-121847348	73.57903333	164.1273333
Prr13	chr15:102289600-102293237	73.55373333	67.77643333
Kdm4a	chr4:117809608-117852648	73.52523333	17.43276667
Hspa1b	chr17:35093373-35096183	73.47803333	53.33436667
Cux1	chr5:136724004-137043301	73.4441	65.06663333
Btf3	chr13:99079851-99086961	73.38773333	70.27843333
Atp2c1	chr9:105313691-105423587	73.3486	62.71843333
Ccdc129	chr6:55787011-55928592	73.3127	41.97563333
Arfgef1	chr1:10127587-10222751	73.14696667	61.6244
Ube2b	chr11:51798647-51813968	73.10183333	75.68823333
Defb4	chr8:19198703-19201547	73.06046667	65.06956667
9530068E07Rik	chr11:52209929-52222225	72.91723333	62.50646667
Swi5	chr2:32134335-32143588	72.90973333	88.8885
Krt6b	chr15:101506453-101510720	72.90746667	112.1146333
Dnajc1	chr2:18127959-18314457	72.85903333	43.06383333
Pcdh1	chr18:38356347-38369416	72.84296667	52.46146667
Nfatc1	chr18:80802943-80909810	72.80786667	26.87333333
Enah	chr1:183834575-183950111	72.7731	23.69166667
Clic6	chr16:92498391-92541486	72.75876667	2.87804
Pate2	chr9:35477223-35480474	72.73263333	8.69049
Cd151	chr7:148653260-148657380	72.23026667	76.6326
Nefl	chr14:68701940-68705794	72.18283333	1.105376267
Churc1	chr12:77866559-77884165	72.13373333	40.24426667
Mtap4	chr9:109834277-109986458	72.11476667	57.34203333
Rbbp6	chr7:130114077-130146086	71.82836667	82.4278
Eef1g	chr19:9041530-9052670	71.77923333	138.6583333
Hnrnpk	chr13:58493311-58503877	71.7663	85.1801
Slc6a6	chr6:91634060-91709057	71.72883333	94.86666667
Rps19bp1	chr15:80091043-80094736	71.72683333	21.54617
Ndufa2	chr18:36902019-36904202	71.68946667	71.102
Nek7	chr1:140381290-140516273	71.59973333	57.33863333
Ppp1r12a	chr10:107599455-107714631	71.56166667	68.34493333
Sun2	chr15:79554497-79572966	71.4672	58.8777
Gtf2f1	chr17:57142824-57150711	71.46266667	63.11153333
Zfx3	chr8:111238543-111485536	71.4407	109.7166667
Cct5	chr15:31520638-31531559	71.40093333	106.8168333
Ufc1	chr1:173218694-173225113	71.39556667	58.51716667
Adipor1	chr1:136312043-136328918	71.36446667	43.56373333
Acot13	chr13:24909823-24923358	71.3171	59.68453333
Rell1	chr5:64300136-64360136	71.29693333	66.23946667
Sdc4	chr2:164249746-164268688	71.2424	77.7357
Ep300	chr15:81416643-81482507	71.17966667	52.0737
Irgq	chr7:25315666-25323619	71.1656	62.03493333
Fnbp1l	chr3:122241636-122322585	71.12783333	75.2279
Etnk1	chr6:143115749-143157066	71.092	36.2704
Rbm28	chr6:29073572-29114724	71.07696667	40.49836667
Huwe1	chrX:148237824-148369961	71.06946667	68.4515
Jup	chr11:100230169-100259104	70.9869	113.9054667
St6gal2	chr17:55585014-55638524	70.84826667	26.92866667
Ubxn4	chr1:130140757-130175954	70.80003333	49.09033333

lft20	chr11:78349937-78354975	70.6458	126.0367667
Wasf2	chr4:132686547-132754245	70.51593333	63.07946667
Rangap1	chr15:81534677-81560349	70.43546667	98.09813333
Fnbp1	chr2:30881725-30997528	70.36143333	69.0045
Uchl1	chr5:67067359-67078473	70.31693333	23.22490667
Hp1bp3	chr4:137772541-137799085	70.28893333	82.12993333
Gca	chr2:62502383-62532166	70.2485	79.9561
Obfc2b	chr10:127838450-127846852	70.2101	20.8704
Psemb6	chr11:70338858-70341360	70.08883333	69.67476667
Ccnt1	chr15:98373641-98398067	70.01443333	29.68626667
Pnpla3	chr15:83998245-84019951	69.91376667	19.00016667
Pik3r5	chr11:68245626-68311348	69.85183333	3.97229
Ak2	chr4:128670508-128688773	69.7859	65.89686667
Ppapdc2	chr19:29038409-29041291	69.70993333	50.18773333
Kcnq3	chr15:65826476-66117786	69.67736667	168.8973333
Snx1	chr9:65935933-65972693	69.65063333	19.04893333
Timm17a	chr1:137198111-137210314	69.63733333	99.04303333
lqgap1	chr7:87856468-87948217	69.60733333	63.38813333
Tas2r130	chr6:131579909-131580848	69.5136	0.138471
Tas2r135	chr6:42355527-42356493	69.49473333	13.09451333
Gtf2i	chr5:134713703-134790616	69.4922	70.99573333
Fryl	chr5:73411429-73647857	69.3877	110.3776667
Atp6v1e1	chr6:120745261-120772703	69.3266	65.25706667
Chd4	chr6:125046180-125080519	69.321	65.8906
Ccdc72	chr9:108980501-108984895	69.30283333	50.11866667
lfi30	chr8:73286671-73290562	69.267	92.6845
Ghitm	chr14:37933631-37948508	69.21876667	50.78286667
Efcab5	chr11:76903416-77002470	69.04663333	10.18296
Pdhb	chr14:8998504-9005506	68.97753333	81.99836667
Calhm2	chr19:47206721-47212784	68.94923333	62.17203333
Polr2j	chr5:136592560-136598817	68.89083333	42.49553333
Stard5	chr7:90780526-90790838	68.7754	41.71783333
Serp1	chr3:58325892-58329806	68.73046667	61.54726667
1500012F01Rik	chr2:166888433-166891362	68.62673333	75.97073333
Ppp2ca	chr11:51912325-51936251	68.58943333	91.8801
2310036O22Rik	chr8:87550731-87554185	68.582	54.91403333
Gsk3b	chr16:38089086-38246165	68.54853333	84.56486667
Paics	chr5:77380435-77396531	68.5341	70.86193333
Atxn7l1	chr12:33987379-34053142	68.5027	25.6669
Ezr	chr17:6942479-6987129	68.38753333	184.276
BC002163	chr16:42955692-42956192	68.3759	33.9343
Eif4b	chr15:101904203-101927604	68.37583333	80.32503333
Setd8	chr5:124889938-124912316	68.10726667	78.26706667
Polr2m	chr9:71326243-71333790	68.07246667	61.88796667
Hdgf	chr3:87710242-87720054	68.05463333	56.67003333
P4hb	chr11:120421617-120434250	67.94743333	111.2941333
Rrbp1	chr2:143773130-143836999	67.9394	81.7996
Ube2l3	chr16:17152107-17201585	67.893	54.1187
Use1	chr8:73890746-73893631	67.87433333	39.6557
Zmynd11	chr13:9684081-9764560	67.81516667	37.98313333
Wnk1	chr6:119873986-119988673	67.805	99.4836
Ndufa1	chrX:34727583-34731233	67.7266	70.33483333

Psemb1	chr17:15612684-15635240	67.6478	35.08626667
Vps29	chr5:122804421-122813296	67.62403333	94.61653333
Dynlt1c	chr17:6806495-6812609	67.53023333	81.14956667
Nup88	chr11:70756572-70783475	67.5278	49.62913333
Cwc15	chr9:14305062-14315064	67.43446667	53.95703333
Gltp	chr5:115119510-115140944	67.3944	125.9080333
Srek1	chr13:104531694-104554662	67.3536	68.66643333
Hjurp	chr1:90155430-90174154	67.24393333	19.1877
1110004F10Rik	chr7:123236893-123248724	67.228	47.3909
Prpsap1	chr11:116332129-116351660	67.2275	32.6018
Gpx2	chr12:77893321-77896541	67.22066667	75.95226667
Nsmce1	chr7:132611153-132635056	67.21613333	27.8092
Dsg2	chr18:20716616-20763027	67.20006667	77.12163333
Msl1	chr11:98657082-98669173	67.1972	58.4279
Sap25	chr5:138082700-138084130	67.15936667	78.82916667
Litaf	chr16:10959365-10993214	67.04136667	56.9938
Dnajc21	chr15:10376517-10400271	67.03993333	31.82416667
Mtap6	chr7:106415956-106485647	67.02726667	43.57596667
Snhg5	chr9:88415890-88417735	67.00826667	48.82593333
Golgb1	chr16:36885096-36933171	66.93746667	46.31066667
Ppib	chr9:65907975-65914436	66.92563333	95.53716667
Slk	chr19:47654508-47719736	66.8073	92.26343333
Ndufs7	chr10:79712196-79719537	66.68526667	46.42256667
Vav1	chr17:57418522-57468659	66.6659	16.02023333
Crebbp	chr16:4084047-4213404	66.66516667	73.46323333
Brwd1	chr16:96213698-96304035	66.6559	42.5422
Leprel1	chr16:25960408-26105870	66.63836667	13.90254667
Cirbp	chr10:79630585-79634398	66.61216667	54.28506667
Ppm1g	chr5:31505040-31522918	66.5733	47.286
Fgf1	chr18:38998326-39078353	66.50916667	53.22993333
Spnb3	chr19:4711222-4752352	66.4633	36.96353333
Med27	chr2:29202355-29380308	66.3884	45.60713333
Ergic3	chr2:155833860-155844015	66.384	119.4306333
Nars	chr18:64659300-64676211	66.38376667	40.59303333
Uqcr11	chr10:79865741-79869566	66.3636	83.5152
Srsf11	chr3:157673456-157699603	66.30013333	68.82903333
Fnta	chr8:27109193-27126073	66.28386667	43.84426667
Ppp1cb	chr5:32761342-32796085	66.2021	64.81703333
Pls3	chrX:73030992-73120509	66.1869	53.35083333
Arl8a	chr1:137043410-137052845	66.11633333	63.332
Atp6v0c-ps2	chr17:24300831-24306340	66.02786667	54.4965
Gdi2	chr13:3537320-3565507	65.96993333	83.4154
Atp5g1	chr11:95934106-95937008	65.96756667	65.52153333
Zmynd8	chr2:165609651-165710251	65.96636667	41.50953333
Rnf7	chr9:96371375-96379014	65.93933333	68.41603333
Tmem30b	chr12:74644100-74647382	65.93443333	59.18293333
Btbd11	chr10:84849558-85123037	65.90013333	74.0106
St18	chr1:6477311-6851021	65.73993333	116.5393333
Fbrs	chr7:134628734-134635027	65.6565	44.33336667
Ndufa10	chr1:94336295-94370335	65.59126667	90.712
Atf5	chr7:52067625-52072028	65.57653333	10.63082333
Gas7	chr11:67346499-67502494	65.49563333	30.15

Rnf14	chr18:38456288-38477503	65.4949	39.4512
Hbp1	chr12:32611319-32635400	65.48813333	71.85323333
Dynlt1a	chr17:6310544-6317474	65.35906667	104.5909667
Dbnl	chr11:5688485-5700983	65.28573333	41.92033333
Krt16	chr11:100107405-100110216	65.24813333	149.7789667
Ttc1	chr11:43543507-43561475	65.1609	39.39293333
Eprs	chr1:187186973-187252234	65.15336667	35.71083333
Smtn	chr11:3417524-3439295	65.1071	45.48043333
Selm	chr11:3414704-3417354	65.08736667	82.19123333
Fah	chr7:91733669-91754452	65.03253333	11.14919667
Acbd5	chr2:22923720-22970032	64.931	39.00696667
Rpl22l1	chr3:28704432-28706337	64.85416667	103.2001333
Ifi27l2a	chr12:104680376-104681890	64.84413333	40.12235667
Akap9	chr5:3928185-4080204	64.8015	66.33886667
Pgam1	chr19:41986360-41993155	64.77866667	83.56296667
Dynlt1c	chr17:6648841-6654956	64.76516667	80.756
Prpf4b	chr13:34967362-34994747	64.69443333	76.58663333
Dmkn	chr7:31548774-31566085	64.6857	134.2366
Ssr3	chr3:65183578-65196475	64.6785	117.972
Ndufb10	chr17:24859011-24861333	64.67163333	48.38426667
Zfp106	chr2:120332565-120389567	64.62393333	36.7943
Gatc	chr5:115783250-115791170	64.62133333	43.61513333
Arf4	chr14:27457682-27476744	64.591	138.9943333
Ppp3ca	chr3:136333733-136598743	64.5745	52.46966667
Anp32e	chr3:95733179-95751310	64.5626	68.16516667
Cope	chr8:72826683-72836889	64.53026667	52.24026667
Rbm3	chrX:7716100-7722928	64.44816667	111.2651333
Rad21	chr15:51794149-51823306	64.37326667	54.4115
Nxf1	chr19:8831592-8845400	64.3705	82.88413333
Rab14	chr2:35035724-35056640	64.29446667	86.2149
Morf4l2	chrX:133267489-133278225	64.2476	71.9637
Sf3b2	chr19:5273920-5295455	64.2308	44.66253333
Raly1	chr3:13471654-14182287	64.1926	8.816763333
Hnrnpul1	chr7:26507057-26539739	64.1616	72.35896667
Pea15a	chr1:174126859-174136912	64.15286667	26.16036667
Araf	chrX:20425668-20437647	64.1345	59.2055
Glud1	chr14:35123912-35158219	64.11256667	75.20296667
Top1	chr2:160471632-160548499	64.07546667	53.7693
Ndufb11	chrX:20192451-20194690	64.06663333	59.61836667
Zcchc6	chr13:59873239-59924508	64.04856667	48.6539
Mbd6	chr10:126719011-126725827	64.02726667	27.69366667
Zfp652	chr11:95610380-95626027	64.02546667	40.38056667
Dynlt3	chrX:9231395-9240109	63.9942	98.13503333
1810012P15Rik	chr11:78640096-78657401	63.95696667	21.76413333
Nsd1	chr13:55311142-55419686	63.91313333	62.65326667
Psmb5	chr14:55232956-55236832	63.89333333	68.37176667
Bax	chr7:52717064-52722268	63.8805	18.93219
Eif4g3	chr4:137549370-137762994	63.84896667	57.5614
Ap1ar	chr3:127510182-127540410	63.8382	78.67813333
Tmem85	chr2:112203175-112208184	63.80153333	79.57403333
Pnrc2	chr4:135426840-135429761	63.75366667	71.81133333
Luc7l2	chr6:38501443-38559470	63.71203333	54.0087

Gm13253	chr4:131775807-131776504	63.658	112.9238
Zfp414	chr17:33766036-33768659	63.6511	34.49773333
Max	chr12:78038255-78063235	63.54823333	55.13126667
Psap	chr10:59740375-59765348	63.4003	116.4462333
Acsl4	chrX:138752535-138825078	63.3574	30.6611
Ufd1l	chr16:18812386-18835354	63.34263333	22.82936667
Usp15	chr10:122550299-122633979	63.2986	36.49957667
Dmrt2	chr19:25746900-25753481	63.2413	58.92236667
Phf20l1	chr15:66409133-66476817	63.13476667	231.1636667
Cdk4	chr10:126500658-126504338	63.06056667	73.5542
Al314976	chr17:48549404-48556591	63.0485	29.84776667
Kcnq1	chr7:150293158-150612947	63.04626667	69.0787
Rplp0	chr5:116009475-116013738	63.0378	145.243
Fkbp4	chr6:128380124-128388649	63.0357	61.11843333
Mllt4	chr17:13897547-14042801	63.0333	49.32016667
Tmem50a	chr4:134453763-134470831	63.02656667	69.30053333
Fcf1	chr12:86311879-86324253	62.98146667	59.1494
Trappc6b	chr12:60144078-60162448	62.967	51.89423333
Serpinc9e	chr13:33341478-33352715	62.95003333	19.81334
Terf2	chr8:109593301-109620445	62.9313	19.70218
Hsf1	chr15:76307874-76331402	62.90403333	23.56366667
Irf2bp2	chr8:129112195-129117336	62.81646667	43.29876667
Dctn2	chr10:126703317-126719015	62.80596667	39.77446667
Eps15	chr4:108952879-109060421	62.79496667	18.14953333
Rgs9	chr11:109086668-109159495	62.6658	18.714
Zcchc7	chr4:44769430-44945086	62.49516667	65.92473333
Ddit3	chr10:126727848-126733344	62.44593333	46.63753333
Cd44	chr2:102651299-102741822	62.4326	655.3423333
Rps19	chr7:25669732-25674821	62.41933333	97.30496667
Sat1	chrX:151647681-151650952	62.34926667	59.99113333
Rabggtb	chr3:153570252-153575930	62.30693333	96.1727
Kcnh7	chr2:62541002-63022344	62.29033333	81.37956667
Spin1	chr13:51196266-51247915	62.28896667	61.425
Chd6	chr2:160772713-160934792	62.26466667	82.213
Ncor1	chr11:62129927-62270834	62.23256667	74.40496667
Slc25a25	chr2:32270006-32306990	62.22583333	64.5256
	14-Sep chr3:144233390-144260640	62.2085	52.66053333
BC005537	chr13:24893525-24904768	62.20716667	64.677
Fert2	chr17:64245366-64488845	62.19416667	25.59403333
Arglu1	chr8:8666575-8690537	62.17633333	81.75323333
Maged1	chrX:91780812-91787413	62.1444	114.4538667
Cd2ap	chr17:42929899-43013373	62.13713333	51.6512
Ccar1	chr10:62206675-62255116	62.11843333	63.36143333
Snx3	chr10:42221859-42255175	62.06033333	45.96523333
Egr2	chr10:67000616-67004936	62.00183333	21.29413333
Ssrp1	chr2:84877357-84887268	61.9851	47.1598
Dync1i2	chr2:71049762-71101359	61.96026667	51.82936667
Mapk13	chr17:28906261-28915649	61.9116	43.51066667
Psm1	chr7:121408063-121419630	61.89763333	67.6782
A630007B06Rik	chr19:56865452-56888173	61.89306667	44.98093333
Glb1l2	chr9:26570628-26614002	61.8789	29.94136667
Atf6	chr1:172634587-172797902	61.79306667	36.9129

St13	chr15:81195473-81230124	61.59883333	53.40596667
Rnf5	chr17:34738043-34740506	61.5808	64.64946667
Pigt	chr2:164323024-164333801	61.43846667	78.95156667
Pigb	chr9:72863502-72887506	61.4353	72.08013333
Gtf3c6	chr10:39969008-39977471	61.40696667	59.79122667
Pygl	chr12:71291801-71328670	61.25743333	31.4708
Ankhd1	chr18:36720256-36818562	61.1984	53.903
Dsc2	chr18:20189298-20218006	61.1836	111.4126667
Slmap	chr14:27232660-27353226	61.17636667	64.87256667
Ccnl1	chr3:65750072-65762147	61.0494	74.55706667
Pcbp1	chr6:86474490-86476159	61.04896667	63.77023333
Gzma	chr13:113884034-113891189	60.97933333	13.84306933
Fam103a1	chr7:88907838-88914376	60.95523333	72.0038
Psmc7	chr8:110104279-110112382	60.9497	55.88343333
Napepld	chr5:21168720-21207163	60.92866667	21.18896667
Mdm2	chr10:117125960-117147772	60.86053333	59.0963
Hspe1	chr1:55144991-55148161	60.8056	62.95966667
2900064A13Rik	chr2:112295181-112307593	60.75603333	85.50643333
Psme3	chr11:101177564-101184844	60.70186667	51.26156667
Shisa5	chr9:108941140-108960280	60.69036667	77.9963
Myl12a	chr17:71343132-71351873	60.65603333	38.66353333
Hnrnpa0	chr13:58227239-58229917	60.62576667	72.00963333
Zbtb38	chr9:96585841-96632094	60.60323333	24.98353333
Hdlbp	chr1:95302516-95375385	60.5894	58.48933333
Banf1	chr19:5364639-5366645	60.57606667	81.21966667
Por	chr5:136165083-136211195	60.51526667	31.1733
Tmem179b	chr19:8847011-8848957	60.4916	35.8498
Ss18	chr18:14784137-14841423	60.4522	29.75403333
Ociad1	chr5:73684032-73705316	60.4454	62.3946
Ube2j1	chr4:33118399-33139339	60.42303333	21.654
Tceb2	chr17:23961706-23966076	60.34383333	124.9659
Tmed2	chr5:124990799-125000512	60.30176667	71.15086667
Syng2	chr11:117670980-117675600	60.29656667	72.95316667
Erp29	chr5:121894761-121902483	60.29636667	70.15063333
Snx12	chrX:98293124-98417902	60.2418	97.81416667
Wac	chr18:7868855-7929025	60.1535	47.66323333
Clic1	chr17:35187187-35195664	60.08743333	58.38876667
Unc5b	chr10:60225342-60294329	60.0865	33.8574
Cldn3	chr5:135462083-135463346	60.0313	55.09743333
Serpina1e	chr12:105185141-105195107	60.02586667	13.46042667
Mapk10	chr5:103336966-103640353	60.0037	6.735336667
Atad1	chr19:32747052-32786788	59.98563333	73.3788
Snx2	chr18:53336018-53380514	59.94773333	53.00233333
Tnfrsf8	chr4:144858878-144905050	59.92713333	60.2924
Ggnbp2	chr11:84645862-84684240	59.91906667	61.29436667
Hmgn3	chr9:83003548-83040214	59.9125	65.84583333
Pdlim3	chr8:46970838-47004900	59.88093333	18.01253333
Ssb	chr2:69699618-69709903	59.85416667	51.403
Bag3	chr7:135667096-135690493	59.839	57.7757
Sec31a	chr5:100790667-100845253	59.77736667	84.5217
Eif3f	chr7:116077928-116085456	59.7094	75.40516667
Tubb2a	chr13:34166146-34169877	59.68926667	69.41963333

Hprt	chrX:50341254-50374837	59.68823333	63.07103333
2410004N09Rik	chr18:33954545-33955643	59.6797	37.29696667
Cd274	chr19:29441927-29462584	59.6552	15.34993333
Ubxn1	chr19:8946048-8950146	59.58743333	30.22106667
Nrbp1	chr5:31543290-31553935	59.5606	39.79593333
Tfg	chr16:56690441-56717563	59.53806667	61.23676667
Armc10	chr5:21151801-21168410	59.5284	34.94213333
Naca	chr10:127472401-127485693	59.52603333	75.66973333
Tssc4	chr7:150255272-150256992	59.44553333	28.44643333
Bud31	chr5:145901265-145908943	59.4355	56.9404
Fabp5	chr3:10012605-10016610	59.36183333	149.7307667
Tardbp	chr4:147986490-148001105	59.3473	42.48343333
Cct7	chr6:85401498-85418471	59.3306	60.5311
Morn4	chr19:42149428-42160860	59.31073333	68.85706667
Smg7	chr1:154684124-154749776	59.29806667	60.25223333
Ccni	chr5:93610958-93635521	59.29123333	78.91936667
Ciz1	chr2:32218529-32233833	59.28133333	42.18466667
Fam117a	chr11:95198331-95243186	59.21836667	30.77916667
Nop56	chr2:130100147-130105049	59.21483333	70.27003333
Dnajc7	chr11:100444149-100481482	59.04133333	54.3244
Mtss1	chr15:58772788-58913581	59.0348	47.11686667
Gm12238	chr11:55296207-55296331	59.02866667	0
0610031J06Rik	chr3:88128944-88132553	59.0014	61.72883333
Emb	chr13:118009379-118063222	58.98196667	72.6498
Nfat5	chr8:109817369-109903417	58.87343333	45.94123333
Cdc123	chr2:5715339-5766006	58.83173333	60.51253333
Adh7	chr3:137880736-137895006	58.82346667	94.59316667
Setd3	chr12:109344640-109417494	58.78823333	38.3529
Tstd1	chr1:173349163-173350483	58.78426667	9.473973333
Zbtb20	chr16:43247396-43619236	58.7565	22.74466667
Ndufa9	chr6:126771880-126799162	58.74806667	61.18546667
Agap1	chr1:91351385-91791857	58.66313333	56.8541
Ndufc1	chr3:51209400-51212877	58.6508	66.34323333
Ccnl2	chr4:155186597-155198652	58.64896667	68.03073333
Rbmx	chrX:54636524-54646213	58.566	32.1639
Ubl7	chr9:57758792-57777775	58.54653333	60.96556667
Gpbp1	chr13:112215887-112280249	58.48696667	54.91506667
1110032A03Rik	chr9:50570932-50576257	58.42676667	49.2667
Hcn1	chr13:118391126-118769835	58.38856667	48.7272
Naa38	chr6:18798634-18804052	58.36406667	37.33843333
Copa	chr1:174012659-174052463	58.27546667	58.21713333
Ak4	chr4:101091893-101140376	58.26876667	8.699326667
Bcap31	chrX:70931521-70961514	58.25336667	126.063
D19Ertd737e	chr19:60274488-60302600	58.25236667	24.50816667
Etv6	chr6:133985724-134220165	58.2506	96.4081
Tmbim1	chr1:74334820-74350910	58.23356667	79.9743
Suv420h1	chr19:3767420-3818303	58.2071	41.25283333
Eif3k	chr7:29756391-29766833	58.1542	77.14453333
Map1lc3a	chr2:155102099-155103809	58.151	31.1217
Ngb	chr12:88438480-88443489	58.05323333	62.1051
S100a14	chr3:90330770-90332757	58.04446667	131.6643667
Twf1	chr15:94408378-94420255	58.01733333	48.3028

Chd7	chr4:8618067-8793956	57.99783333	47.65286667
Ankrd11	chr8:125407721-125566184	57.98176667	48.26126667
Csnk2b	chr17:35253139-35258392	57.97676667	90.38256667
Setd5	chr6:113027632-113103418	57.95056667	60.07556667
Safb	chr17:56724404-56745717	57.9283	36.4256
Grina	chr15:76077236-76080334	57.78676667	50.52286667
Larp4b	chr13:9093150-9172336	57.75896667	48.69996667
Nr4a1	chr15:101097276-101105225	57.7512	84.15503333
Mll3	chr5:24777611-25004601	57.73163333	50.76543333
Rpl28	chr7:4744566-4746149	57.709	76.44036667
Erbp2ip	chr13:104608865-104710594	57.69866667	50.6583
Ech1	chr7:29610356-29617258	57.67763333	34.95486667
5930434B04Rik	chr2:26865445-26876609	57.6504	54.75203333
Ptges3	chr10:127496037-127514310	57.64056667	56.26423333
Tas2r124	chr6:132704747-132705677	57.63413333	0.118274
Mark2	chr19:7349885-7416334	57.56683333	59.33316667
Fam162a	chr16:36043929-36071601	57.53943333	92.394
Ypel3	chr7:133920488-133924028	57.52136667	93.7715
Serinc3	chr2:163449008-163470879	57.4803	59.75346667
Snora7a	chr6:115757992-115758121	57.478	10.328
Rpl37	chr15:5066612-5069140	57.47473333	72.64916667
Ap3m2	chr8:23897825-23916126	57.46436667	17.28763333
Mt2	chr8:96696517-96697467	57.43466667	360.0712667
Triobp	chr15:78778153-78836299	57.4207	46.45813333
2610019E17Rik	chr17:24665195-24665689	57.41228	54.14453333
Vezf1	chr11:87881842-87898231	57.40026667	43.3172
Klk11	chr7:51029986-51034632	57.3709	68.24066667
Tnip1	chr11:54724288-54776442	57.36553333	53.8621
Hsf2	chr10:57206190-57232949	57.3442	39.17426667
Rnf113a2	chr12:85758149-85759528	57.29113333	43.29243333
Mea1	chr17:46818085-46820054	57.2691	43.6274
Slmo2	chr2:174290591-174298442	57.261	61.4779
Ada	chr2:163552319-163575913	57.24293333	128.6981667
Calml3	chr13:3802138-3803564	57.23893333	125.9125
Sirt7	chr11:120479685-120486316	57.2344	38.5132
Atxn7l3b	chr10:112362483-112366082	57.22896667	52.43583333
Tomm22	chr15:79501297-79503292	57.19436667	76.44133333
Ssu72	chr4:155078923-155107982	57.19293333	47.5806
Atp6v0e	chr17:26813340-26836591	57.1884	98.55286667
Psmc1	chr12:101350540-101361574	57.14643333	50.3165
Utp3	chr5:88983507-88985108	57.10653333	45.337
Ltv1	chr10:12898443-12912943	57.10196667	64.20133333
Sar1a	chr10:61143068-61156045	57.04836667	59.4795
Ndufs2	chr1:173164990-173177243	57.02873333	57.28226667
Rpl15	chr14:19100336-19103500	57.02303333	69.992
Egr3	chr14:70477251-70479964	57.02206667	14.35174
Ankrd17	chr5:90656190-90795211	56.96713333	54.27013333
Trim29	chr9:43118845-43144208	56.9041	48.8219
Snrpd2	chr7:19735186-19738075	56.87966667	39.55663333
Tprgl	chr4:153531594-153534793	56.85923333	49.54983333
Tulp4	chr17:6106829-6240637	56.85646667	56.6588
Pja2	chr17:64630354-64681223	56.73356667	63.6494

Ppp1r10	chr17:36053855-36069228	56.73023333	38.2187
Ensa	chr3:95428901-95436039	56.7257	43.03966667
Midn	chr10:79611034-79621112	56.7132	64.1566
Npm1	chr11:33052497-33063206	56.60616667	66.8886
Capn2	chr1:184397389-184447614	56.57503333	49.3166
Mrpl42	chr10:94943439-94964561	56.55356667	71.22126667
Cbr1	chr16:93608081-93610594	56.52696667	30.76446667
Kcmf1	chr6:72791107-72849973	56.4917	48.44613333
Rere	chr4:149656024-149996075	56.48983333	41.7465
Mtap1a	chr2:121115337-121136568	56.48623333	46.10423333
Copb2	chr9:98464149-98488794	56.47783333	66.91836667
Ccnt2	chr1:129670740-129701414	56.39916667	29.32826667
AV039307	chr2:120676391-120692426	56.38106667	9.610503333
Nov	chr15:54577482-54585316	56.36893333	12.23736333
Rpl24	chr16:55966387-55971550	56.35276667	81.59236667
Krt7	chr15:101242833-101258237	56.33963333	115.6930333
Smc3	chr19:53674885-53720321	56.3237	57.88683333
Aftph	chr11:20585087-20641551	56.2802	64.40393333
Aco2	chr15:81702892-81745567	56.2609	66.27723333
Abhd11	chr5:135485021-135488045	56.09126667	25.1008
Cops4	chr5:100947327-100976821	56.05766667	71.4753
Sf1	chr19:6363689-6378038	56.0307	52.25033333
Mtpn	chr6:35458823-35489888	56.0033	59.6072
Bloc1s1	chr10:128356969-128360580	55.9947	45.9789
Igfbp5	chr1:72904638-72921439	55.93453333	143.16
6720401G13Rik	chrX:47908920-47988435	55.91653333	36.18513333
Pisd-ps1	chr11:3024023-3031947	55.911	67.19086667
Mtcp1	chrX:72650185-72661882	55.89806667	8.525394
Ii25	chr14:55551531-55554673	55.87143333	7.633623333
Isca2	chr12:86114219-86116039	55.86086667	86.9951
Rps29	chr12:70258708-70260173	55.82543333	56.2811
Syne2	chr12:76919304-77211915	55.805	37.6297
Ncoa6	chr2:155216391-155266519	55.75056667	72.51043333
Nus1	chr10:52137352-52159998	55.7503	21.56476667
Enc1	chr13:98011059-98022995	55.73783333	17.1633
Cdk11b	chr4:154998977-155024041	55.72973333	42.86403333
Mt1	chr8:96702988-96704227	55.71563333	145.1444
Prpf8	chr11:75300278-75322949	55.68296667	58.0172
Hnnpnr	chr4:135866890-135896593	55.6493	63.17496667
C330021F23Rik	chr8:3567997-3584776	55.50753333	75.306
0610010O12Rik	chr18:36508277-36553024	55.4727	26.1549
Capsl	chr15:9365782-9395790	55.45376667	41.41809333
Fam102a	chr2:32390878-32425270	55.4162	52.47063333
Mmadhc	chr2:50135400-50152197	55.38306667	66.8019
1110021J02Rik	chr17:29832921-29853962	55.3541	29.29576667
Bcl10	chr3:145587341-145597247	55.34693333	41.96623333
Bmpr2	chr1:59821480-59927703	55.29086667	52.70193333
Phpt1	chr2:25428950-25430391	55.2855	34.76923333
Itsn2	chr12:4599813-4720758	55.26653333	50.5188
Jak1	chr4:100824578-100937887	55.2056	45.9039
Tceal8	chrX:132703522-132706790	55.1454	44.81556667
Znr1	chr17:37091302-37095373	55.11053333	42.81296667

Mef2d	chr3:87946316-87973089	55.1068	54.48746667
Carhsp1	chr16:8658679-8672246	55.10086667	43.70133333
Al661453	chr17:47573587-47607587	55.08213333	59.58176667
Tle4	chr19:14522561-14672473	55.0821	67.14643333
Csad	chr15:102007428-102019474	55.06726667	15.59416667
Rheb	chr5:24308640-24348179	55.0641	64.8759
Dnajb6	chr5:30062437-30113018	55.00776667	69.9666
Atp8a1	chr5:68009379-68238670	54.89763333	47.67746667
Arcn1	chr9:44550227-44575891	54.89346667	43.82656667
I7Rn6	chr7:97067198-97089695	54.81913333	41.53873333
Tspan3	chr9:55983690-56008877	54.75383333	67.72253333
Idh3g	chrX:71024301-71032236	54.73806667	50.30443333
Polr2a	chr11:69547911-69571725	54.72386667	47.81096667
Pcdhgb1	chr18:37840111-38001524	54.68583333	24.00066667
Ppp2r1a	chr17:21082417-21102869	54.6082	73.3108
Scamp4	chr10:80065626-80078528	54.5994	102.2467667
Zbtb7a	chr10:80599015-80614402	54.5688	40.91303333
Lage3	chrX:71597500-71598957	54.52023333	45.64056667
Rnaset2b	chr17:7183208-7202542	54.50193333	29.1313
Jmjd1c	chr10:66590005-66719074	54.49266667	56.0163
1810013L24Rik	chr16:8830192-8859017	54.48863333	59.89933333
Mir1931	chr10:92625529-92625648	54.43866667	0
Rad23b	chr4:55362913-55405109	54.434	54.48953333
Uso1	chr5:92566963-92631821	54.40923333	60.67696667
Ugt8a	chr3:125568260-125641468	54.39586667	49.79343333
Asb11	chrX:160876032-160897032	54.3629	0.245282667
Vmp1	chr11:86397366-86497324	54.3563	51.3379
Sh3glb1	chr3:144351807-144383287	54.33993333	37.12056667
Abi1	chr2:22795508-22895760	54.29676667	51.87406667
Lrrc56	chr7:148380028-148395954	54.28426667	29.31773333
Adi1	chr12:29360071-29367039	54.26223333	69.37513333
Amot	chrX:141880966-141921589	54.2554	15.50645
Cyp2g1	chr7:27593945-27606216	54.1697	0.434093
Mtch1	chr17:29469020-29484849	54.133	62.00713333
Ube2h	chr6:30161288-30254539	54.11736667	46.5634
Sin3b	chr8:75247186-75282102	54.1152	49.227
Srsf7	chr17:80599419-80606645	54.11506667	66.13406667
GlrX5	chr12:106270898-106279120	54.11423333	50.65283333
Atp6v1c1	chr15:38591658-38622199	54.10356667	42.70523333
Ptbp1	chr10:79317349-79327178	54.0804	101.7242667
Xbp1	chr11:5420969-5425875	54.0196	110.8223667
Ptgs1	chr2:36085945-36107789	54.00063333	75.99306667
Cd47	chr16:49855766-49911796	53.95413333	46.1077
Ctage5	chr12:60230732-60291207	53.93913333	41.94133333
Krt14	chr11:100064475-100068824	53.83003333	117.1758667
Cct4	chr11:22890592-22903336	53.78786667	73.63896667
Fip1l1	chr5:74931506-74993149	53.7746	31.4238
Rnf181	chr6:72309707-72312375	53.75456667	42.6948
Gm5918	chr9:72827532-72833183	53.74886667	23.87363667
Pkp4	chr2:58998906-59193262	53.73066667	43.49096667
Ank3	chr10:68996455-69490184	53.7222	41.5343
Coro1b	chr19:4148662-4154035	53.72	42.3356

Fam58b	chr11:78564007-78565231	53.69723333	10.29856
Ptprf	chr4:117880817-117964002	53.69516667	40.69406667
Ubl3	chr5:149316206-149364364	53.6802	20.244
Nktr	chr9:121628298-121665959	53.6773	51.982
G3bp2	chr5:92481171-92512761	53.67653333	66.1573
Commd6	chr14:102032982-102039688	53.6713	40.64636667
H2afy	chr13:56174982-56236911	53.65036667	71.4695
Hint2	chr4:43667098-43669317	53.6318	64.41033333
Ctdsp2	chr10:126415772-126437031	53.62753333	53.0932
Tpm4	chr8:74659190-74677028	53.62196667	104.2445
Arc3	chr5:122841936-122856187	53.60513333	63.0905
Git1	chr11:77306913-77321276	53.57873333	49.30116667
Psmc1	chr1:87961193-88035870	53.5622	67.62813333
Degs2	chr12:109925001-109940516	53.5542	99.4099
Zc3h11a	chr1:135516447-135557957	53.50156667	79.47543333
Leprotl1	chr8:35198625-35209793	53.496	29.7894
Cpsf7	chr19:10599733-10622225	53.47043333	40.44533333
Hspa9	chr18:35097068-35114005	53.4042	46.75813333
Pptc7	chr5:122734406-122774290	53.39066667	58.48763333
Prdx5	chr19:6981308-6984135	53.37083333	61.81273333
Srsf1	chr11:87861172-87867259	53.33846667	47.89423333
BC002163	chr4:123389952-123395404	53.33703333	23.54016667
Gltscr2	chr7:16523184-16531457	53.30796667	62.29466667
Ppp1r15a	chr7:52778287-52781638	53.30636667	36.7967
Cyb5	chr18:85020805-85049255	53.27316667	85.53116667
Slc44a2	chr9:21125162-21159472	53.25803333	83.2038
Gm10094	chr14:58417054-58421167	53.24423333	25.40416667
Kcnj2	chr11:110927477-110938139	53.15723333	25.18796667
Yy1	chr12:110031520-110054842	53.15523333	34.2977
C77080	chr4:128896821-128925687	53.14303333	48.82023333
Tmem60	chr5:20388270-20392688	53.07196667	44.42763333
Nfix	chr8:87231497-87324239	53.02476667	91.30133333
Spcs1	chr14:31813011-31814852	53.00556667	47.48056667
Mapk3	chr7:133903139-133909330	52.98396667	46.53213333
Mll2	chr15:98662099-98701636	52.9217	42.6031
Ahcyl1	chr3:107466037-107499466	52.8938	41.90573333
Phyh	chr2:4840041-4859789	52.88946667	46.1867
Psmc2	chr5:21291100-21309602	52.8763	75.86466667
Hnrnpa3	chr2:75497315-75507464	52.81276667	57.03896667
Cnpy1	chr5:28532002-28564413	52.8067	118.0553333
Eif4h	chr5:135095745-135115198	52.77473333	57.02
Brp44	chr1:167391338-167411345	52.7527	73.7519
Glo1	chr17:30729806-30749604	52.7005	45.2197
Zbed6	chr1:135552455-135557462	52.62683333	52.62933333
Nipbl	chr15:8241224-8394463	52.62003333	54.74833333
Tpm3	chr3:89876572-89904824	52.61073333	64.94273333
Hist2h2aa1	chr3:96049460-96050038	52.60566667	30.19346667
Ube2v1	chr2:167433138-167457505	52.5874	51.9906
Crip2	chr12:114378446-114383717	52.56456667	49.9861
Hist2h2aa1	chr3:96043638-96044216	52.54923333	30.1866
Rsph1	chr17:31391964-31414301	52.50586667	13.45868
Shc2	chr10:79080682-79100663	52.47913333	36.84713333

Clint1	chr11:45665465-45724127	52.4316	50.9496
Hbxip	chr3:107081775-107086999	52.3789	42.77434333
Aff1	chr5:104183180-104284341	52.35123333	54.66703333
H47	chr7:73224534-73234291	52.32866667	45.93973333
Ubxn2a	chr12:4885837-4914326	52.28946667	48.4413
Add1	chr5:34916362-34974954	52.25866667	56.21103333
Slc9a3r1	chr11:115024654-115042492	52.24253333	37.24156667
Spib	chr7:51781364-51787441	52.1678	125.6341667
Abr	chr11:76230235-76391229	52.1567	52.14273333
Calhm1	chr19:47215524-47218664	52.15506667	48.9399
Arl6ip1	chr7:125262403-125273139	52.08526667	76.22566667
Sdhc	chr1:173059287-173080734	52.06246667	53.4168
Fras1	chr5:96802973-97213747	52.04856667	11.18413
Arl2	chr19:6134388-6141137	52.04253333	68.6062
Sbsn	chr7:31536489-31541153	52.02873333	74.38253333
Ddx6	chr9:44412974-44448814	52.01376667	69.91166667
Lass6	chr2:68699613-68949347	51.9191	31.5715
Sub1	chr15:11911093-11925762	51.91526667	42.3772
Inadl	chr4:98062516-98386294	51.90253333	25.4555
Tas1r1	chr4:151402022-151412599	51.89763333	44.9992
Sec61b	chr4:47487532-47496105	51.84446667	27.69803333
Rpl34	chr3:130429748-130433226	51.83963333	102.1116333
Rara	chr11:98799009-98836256	51.82113333	22.4618
Rnf38	chr4:44139083-44181155	51.81886667	93.39726667
Rpp21	chr17:36392617-36394791	51.77356667	61.50396667
Gng12	chr6:66846390-66971355	51.7492	19.3288
Ap1g1	chr8:112302539-112388108	51.62766667	39.17786667
Gtf3c1	chr7:132784467-132851202	51.60776667	36.409
Rps4y2	chr6:148303177-148304118	51.5883	10.72487333
Utrn	chr10:12101985-12581533	51.58346667	41.12846667
Sfn	chr4:133156470-133158083	51.55633333	111.4027
Top2b	chr14:17197719-17263301	51.52063333	71.6932
Polr2f	chr15:78971796-78982197	51.49396667	43.9167
Tug1	chr11:3539796-3548811	51.46993333	81.9237
2810013P06Rik	chr8:125566474-125568502	51.43893333	23.55487667
Lphn3	chr5:81450617-82224755	51.41293333	50.21613333
Scnn1a	chr6:125271357-125294960	51.37103333	59.35516667
Myo5b	chr18:74602272-74931131	51.34503333	47.49746667
Brd1	chr15:88517464-88564649	51.30653333	34.14986667
Arhgap12	chr18:6024447-6136096	51.2706	21.89763333
Mpp7	chr18:7347959-7626861	51.24153333	34.10293333
Sgtb	chr13:104899869-104931521	51.19293333	17.9648
2810407C02Rik	chr3:58380579-58397466	51.18833333	61.014
Dnajc5	chr2:181255209-181286954	51.15906667	41.13806667
Fam96a	chr9:65974417-65986775	51.15553333	40.142
Rer1	chr4:154448220-154460406	51.12606667	27.42113333
Fdx1l	chr9:20871963-20877958	51.11676667	20.21102667
Atg3	chr16:45158941-45188651	51.11046667	26.64806667
Smc1a	chrX:148450970-148496516	51.09423333	44.32526667
Pan3	chr5:148242155-148360077	51.09113333	36.61436667
Timm8b	chr9:50412005-50413425	51.0849	56.01773333
Snora23	chr7:117189877-117190061	51.04846667	124.9977

Hnrnpc	chr14:52693054-52723703	51.03536667	47.0362
Bcl2l2	chr14:55502261-55507071	50.98853333	18.97573333
Gm5617	chr9:48303449-48304077	50.97936667	29.902
Hivep2	chr10:13686184-13871184	50.9642	17.4745
Kdm6a	chrX:17739792-17856484	50.9565	94.41293333
1600020E01Rik	chr6:86477323-86514443	50.925	11.37241
Rpl27a	chr7:116662708-116665883	50.91816667	72.98856667
Rpl35a	chr16:33056538-33060274	50.89166667	53.87613333
Sqstm1	chr11:50013653-50024292	50.88676667	56.85586667
Ogdh	chr11:6191599-6259097	50.88146667	48.06746667
Ankrd12	chr17:66316840-66426386	50.78893333	38.6936
Pttg1	chr11:43233749-43239750	50.76093333	48.84326667
6720456B07Rik	chr6:113554765-113566945	50.75716667	63.5357
Stk11	chr10:79579280-79593215	50.74913333	60.52176667
Lpin2	chr17:71533317-71599158	50.74203333	48.37786667
Gstk1	chr6:42195933-42200440	50.74033333	12.23968333
Ktn1	chr14:48283430-48356239	50.72136667	69.23623333
Gstz1	chr12:88488114-88505673	50.68333333	72.85726667
Mycbp	chr4:123582255-123589493	50.66076667	52.3696
Olf1414	chr1:94407624-94415092	50.58573333	8.072306667
Ndufa6	chr15:82180568-82184721	50.53936667	30.7464
Rnf20	chr4:49644931-49669758	50.46856667	29.2654
Ndufb6	chr4:40217695-40226401	50.43986667	67.7054
Lypd3	chr7:25421588-25426137	50.43446667	110.6596667
Mrpl54	chr10:80727466-80729671	50.3772	44.38783333
Pold3	chr7:107230622-107270010	50.3744	22.58003333
Apc	chr18:34380637-34481844	50.36173333	56.67776667
Tra2b	chr16:22245813-22266002	50.3511	46.4594
Far1	chr7:120657375-120713972	50.20613333	19.09658667
Ntng2	chr2:29050340-29103560	50.19436667	38.05833333
Sfxn3	chr19:45122065-45130873	50.18946667	23.2265
Panx1	chr9:14810228-14849922	50.1322	29.11433333
Ssr2	chr3:88383592-88392335	50.1123	41.6316
Mir698	chr4:124421024-124421133	50.065	0
Ndufb8	chr19:44624743-44629905	50.0228	89.549
Xkrx	chrX:130683583-130696467	50.01446667	15.48900333
Rbbp7	chrX:159198303-159217022	50.01433333	59.1418
Cul1	chr6:47404322-47476138	49.9886	57.87936667
Ube2e1	chr14:19115242-19164358	49.98813333	42.8737
Snw1	chr12:88790859-88813249	49.8978	41.0598
Gng5	chr3:146162799-146168507	49.8515	59.4848
H2afx	chr9:44142797-44144156	49.849	25.45027667
Mphosph8	chr14:57287084-57316266	49.8422	39.16716667
G6pc3	chr11:102051012-102055396	49.82833333	58.3205
Arid2	chr15:96117952-96235894	49.81076667	48.23173333
Set	chr2:29917515-29928097	49.8072	68.5243
Yipf6	chrX:96133119-96144359	49.79506667	54.30446667
Arl8b	chr6:108733052-108773717	49.7855	52.64353333
Gm6222	chrX:100958255-100958884	49.78283333	56.01743333
Pde4d	chr13:109444370-110746177	49.77716667	20.76136667
Erh	chr12:81735009-81744848	49.71556667	64.43006667
Etfa	chr9:55302242-55360050	49.6749	66.41106667

Hpgds	chr6:65067286-65094724	49.66663333	35.11076667
BC005624	chr2:30828352-30837461	49.6494	21.48423333
Asns	chr6:7625170-7643182	49.6432	31.2371
Tnc	chr4:63620818-63708049	49.62726667	1.225928
Elf1	chr14:79881000-79982283	49.61003333	43.4109
Cyfip1	chr7:63097440-63188003	49.6076	27.0149
Psmid8	chr7:29959205-29965692	49.5877	40.1074
Esrp1	chr4:11259184-11313930	49.5818	72.8814
1110058L19Rik	chr1:24002777-24012479	49.57483333	32.87421
Inpp5j	chr11:3394274-3404824	49.54683333	99.99256667
Tm9sf4	chr2:152987036-153036199	49.54296667	21.9941
Vamp3	chr4:150421413-150432062	49.52613333	46.169
Copz1	chr15:103103348-103130295	49.5246	54.5151
Tcf20	chr15:82639054-82742564	49.51513333	47.01733333
Efha1	chr14:58535116-58618099	49.4828	57.82266667
Hexim1	chr11:102977638-102981038	49.41803333	36.9005
Rpl22	chr4:151699986-151708180	49.39396667	70.06093333
Dek	chr13:47180135-47201589	49.33106667	47.6202
Smurf2	chr11:106681377-106782029	49.29976667	46.19973333
Trip11	chr12:103075581-103151381	49.27743333	49.33643333
Cdk16	chrX:20265618-20277003	49.2537	41.06303333
Baz2a	chr10:127529838-127566359	49.24196667	51.75203333
Atn1	chr6:124692561-124706505	49.24003333	35.57153333
Ccndbp1	chr2:120834143-120842648	49.22106667	75.78636667
Rps16	chr7:29135707-29137717	49.1957	68.47683333
Elovl7	chr13:109004597-109077301	49.19543333	28.56643333
Ddx1	chr12:13226112-13255980	49.17636667	35.00753333
Ctcf	chr8:108160437-108206822	49.16006667	34.93766667
Tram1	chr1:13554782-13579945	49.15463333	68.343
D17Wsu92e	chr17:27888179-27957487	49.07613333	57.67456667
Psm4	chr9:54798665-54805837	49.0607	84.6703
Sri	chr5:8046079-8069245	49.05516667	32.32336667
Fam173a	chr17:25927450-25929229	48.9268	47.28956667
2310045N01Rik	chr8:72663611-72671159	48.87163333	43.51546667
Puf60	chr15:75900611-75911376	48.85333333	33.4997
Ndufb5	chr3:32635984-32650481	48.84423333	98.60966667
Sh2d7	chr9:54386790-54392827	48.84383333	9.08166667
1700081L11Rik	chr11:104194542-104303605	48.83873333	51.3219
Cnpy2	chr10:127759514-127764243	48.8226	34.20633333
Arf6	chr12:70473136-70476967	48.81556667	50.2452
Fgfr1op2	chr6:146526432-146547720	48.78036667	28.2655
Hyou1	chr9:44187572-44200452	48.77213333	68.1429
Tmed8	chr12:88507191-88541179	48.7445	27.5827
Tbl1x	chrX:74756565-74905604	48.7207	43.7234
B4galt5	chr2:167123944-167174678	48.66683333	26.6352
Slc3a2	chr19:8781371-8797859	48.6215	24.49083333
Sik3	chr9:45820902-46032277	48.5839	31.8694
Htatsf1	chrX:54306746-54320359	48.5497	61.584
Cops3	chr11:59631305-59653269	48.53933333	43.55773333
Ddt	chr10:75233977-75236119	48.5203	52.19723333
Tpd52	chr3:8929435-9004515	48.4946	69.3843
Brd7	chr8:90856209-90886090	48.46283333	50.75923333

Tnks2	chr19:36908721-36967967	48.45156667	72.04726667
Madd	chr2:90977516-91023204	48.4099	49.24826667
Ccnk	chr12:109417947-109441569	48.40663333	36.86583333
Mrpl24	chr3:87723465-87727355	48.40223333	43.6843
Actn4	chr7:29678272-29747299	48.40176667	71.30886667
Gm6654	chr6:146595698-146596324	48.34803333	65.74626667
Zdhhc24	chr19:4878667-4885397	48.3378	37.16366667
Rpl31	chr1:39424695-39428755	48.30266667	60.64203333
Eif1b	chr9:120401723-120404445	48.28846667	31.06841633
Sdhd	chr9:50404444-50411954	48.27243333	39.3112
Csnk1d	chr11:120823054-120852647	48.24566667	44.58236667
Tspyl4	chr10:34017226-34021126	48.2414	44.57223333
Plekhg5	chr4:151470827-151489509	48.13796667	29.02436667
Kidins220	chr12:25659796-25744562	48.13596667	50.07526667
Taf15	chr11:83286609-83320242	48.05096667	18.32684333
Rnaset2a	chr17:8321462-8340653	48.0454	22.5216
Marveld2	chr13:101365911-101386926	48.0384	28.17476667
Fam98a	chr17:75936425-75951286	47.93026667	32.94073333
Cr1l	chr1:196929981-196957764	47.9217	54.04603333
Glg1	chr8:113681457-113783102	47.8882	44.17653333
Nme2	chr11:93811128-93817321	47.8244	76.50066667
Klhdc7a	chr4:139518087-139523941	47.76466667	45.87873333
Fbxo22	chr9:55056741-55072240	47.7338	34.08923333
Usp16	chr16:87455229-87483758	47.71386667	38.85456667
Krt84	chr15:101355456-101363251	47.69110333	98.86061667
Zfp871	chr17:32902441-32925232	47.67783333	61.28906667
Gpatch8	chr11:102337229-102417472	47.63206667	39.6489
Bcas2	chr3:102975633-102983077	47.63133333	53.7982
Chchd1	chr14:21522248-21523647	47.62986667	37.29933333
Spint1	chr2:119063095-119075249	47.6055	75.5201
Mrpl33	chr5:31916323-31925017	47.6036	86.71833333
Dnmt3a	chr12:3806979-3914443	47.5837	42.75443333
Emp2	chr16:10281841-10314061	47.56663333	130.777
Pafah1b1	chr11:74487450-74537886	47.54026667	47.3312
Cables2	chr2:179993243-180008170	47.53636667	31.44443333
Calcoco1	chr15:102537207-102552609	47.5096	34.874
Abhd16a	chr17:35226235-35239932	47.4923	31.50123333
Zfc3h1	chr10:114822014-114869827	47.473	43.1038
Pdzd11	chrX:97818244-97821246	47.45833333	52.40083333
Tet2	chr3:133126640-133207354	47.43363333	40.01806667
Spire2	chr8:125856612-125893418	47.412	27.23963333
Zbed3	chr13:96095191-96107796	47.37946667	37.7508
Fam48a	chr3:54497026-54520759	47.37516667	45.69833333
Taf2	chr15:54846683-54903707	47.32983333	24.53083333
Hsd17b10	chrX:148436438-148438985	47.30426667	81.30416667
Ash1l	chr3:88769733-88883297	47.3014	55.50663333
Ttbk2	chr2:120558551-120676320	47.2963	13.34843
Plekha6	chr1:135142673-135200012	47.27853333	15.74403
Stx12	chr4:132409978-132440373	47.27046667	45.06986667
4732418C07Rik	chr4:115410677-115449932	47.24303333	43.17356667
Srsf6	chr2:162757243-162762856	47.18626667	66.9405
Capza2	chr6:17587097-17616536	47.1763	40.70993333

Tet3	chr6:83312367-83391672	47.15966667	50.08966667
Pcm1	chr8:42325112-42419441	47.15056667	55.9201
Pgm2l1	chr7:107376116-107427382	47.12826667	68.1809
Rala	chr13:17972408-18036051	47.0157	41.09833333
Ndufa8	chr2:35891853-35904812	47.0097	44.69286667
Nsf	chr11:103683096-103815370	46.96466667	54.78893333
Mapre2	chr18:23910833-24052362	46.9395	34.51633333
Gse1	chr8:123012765-123105283	46.9321	58.6094
Ube2q1	chr3:89577530-89587919	46.9307	33.96083333
Scaf11	chr15:96242128-96291274	46.91676667	37.08686667
Wdr26	chr1:183103356-183142109	46.89626667	82.827
Vdac2	chr14:22650782-22665101	46.81616667	91.18963333
Usf2	chr7:31730266-31741822	46.8017	27.54336667
Stx5a	chr19:8815913-8830132	46.7558	33.4817
Atp6v1a	chr16:44085516-44139132	46.7511	55.2851
Mll1	chr9:44611437-44689357	46.71283333	47.3023
Rsl1d1	chr16:11193129-11203385	46.69516667	71.3757
Magoh	chr4:107552417-107560003	46.6941	72.56886667
Suc1g2	chr6:95424127-95668831	46.64816667	17.4115
Pum2	chr12:8680939-8759389	46.63443333	56.54493333
2900011O08Rik	chr16:13986729-14101587	46.6245	60.80666667
Efcab1	chr16:14906738-14924615	46.60246667	123.7503667
Prdx6	chr1:163170242-163181297	46.53343333	61.42056667
Sec24c	chr14:21493542-21514072	46.53306667	46.1212
Pcf11	chr7:99792221-99818422	46.52006667	43.76103333
Raver1	chr9:20878608-20896432	46.49223333	39.7521
Ifit1	chr19:34715378-34724499	46.45896667	6.94772
Pafah1b3	chr7:26080067-26082974	46.43486667	51.2175
Trip12	chr1:84717763-84835879	46.43326667	47.7097
Mllt10	chr2:17976863-18134017	46.42653333	35.74773333
Acly	chr11:100337665-100389314	46.3638	31.65936667
Cab39	chr1:87690021-87748152	46.3455	36.92996667
Mir681	chr12:70864821-70864931	46.34333333	31.9147
Mir218-1	chr5:48615180-48615290	46.34333333	0
Eif3e	chr15:43081585-43114282	46.3084	69.89483333
Hdac1	chr4:129193347-129219890	46.3006	34.45003333
Ppm1b	chr17:85356080-85423332	46.27346667	48.55533333
Utp6	chr11:79747457-79775889	46.25073333	34.64133333
Psm12	chr11:107340841-107359350	46.2196	61.21613333
Hdac2	chr10:36694349-36721694	46.21126667	57.55263333
Med13	chr11:86079216-86171027	46.18933333	54.42846667
Drap1	chr19:5422823-5424916	46.14213333	37.27199
Plp2	chrX:7245241-7248404	46.0935	95.0971
Cops6	chr5:138602329-138605212	46.06236667	70.8034
Psm14	chr3:94836626-94846467	45.97763333	49.55263333
Mterfd3	chr10:84582177-84590772	45.9663	23.2937
Setd7	chr3:51319239-51364745	45.9188	27.39053333
Aldh1a1	chr19:20676471-20717952	45.879	53.906455
Usp8	chr2:126533063-126585050	45.86593333	50.65166667
Ndufb7	chr8:86090656-86095522	45.84063333	67.8203
Tnrc6b	chr15:80541742-80771516	45.8262	37.22116667
Tmem86b	chr7:4579641-4582084	45.82126667	35.75843333

Paf1	chr7:29178014-29184402	45.7934	24.3655
Gstm1	chr3:107815167-107820891	45.78783333	103.9859
Ube2k	chr5:65928499-65990228	45.78603333	47.32876667
Rpsa	chr9:120036883-120041487	45.73363333	62.6963
Fam122a	chr19:24550268-24551964	45.7291	55.00976667
Hmox2	chr16:4726360-4766249	45.6924	39.26326667
2400003C14Rik	chr8:112195220-112217194	45.6566	32.24736667
Fibp	chr19:5460606-5465052	45.546	25.44196667
Gcfc1	chr16:91014281-91044624	45.53233333	34.90443333
Actr1b	chr1:36756046-36766770	45.5255	36.69426667
Mcee	chr7:71537656-71557005	45.4575	57.1567
Vapa	chr17:65929392-65962895	45.43976667	41.3507
Whsc2	chr5:34240828-34278907	45.42966667	32.92473333
Cltb	chr13:54694299-54712633	45.41613333	17.56396333
Lsm3	chr6:91466028-91472614	45.406	35.63096667
1500011B03Rik	chr5:115258204-115263985	45.40406667	32.03963333
Pdpk1	chr17:24210646-24278561	45.39866667	49.21563333
Ppm1k	chr6:57456495-57485420	45.3977	15.13458
M6pr	chr6:122259027-122267695	45.35553333	51.10523333
Scnm1	chr3:94933640-94937934	45.3496	21.48726667
Trp53bp2	chr1:184339297-184392567	45.3303	41.63223333
Bcl2l14	chr6:134346346-134388742	45.2874	21.77873333
Ppig	chr2:69561144-69592116	45.273	33.5426
Ccl27a	chr4:41716342-41721049	45.2454	31.62596333
Ilkap	chr1:93272407-93295360	45.22193333	47.95233333
Usp7	chr16:8688814-8738435	45.21453333	39.75016667
Zmat4	chr8:24780132-25173577	45.18486667	10.19152667
1810010H24Rik	chr11:106889536-106891756	45.15593333	9.482324333
Zfp330	chr8:85287518-85298025	45.13406667	33.51826667
1810035L17Rik	chr12:88784845-88790874	45.11003333	61.541
Bpnt1	chr1:187156037-187181648	45.09586667	59.3039
Gm15421	chr5:22034038-22034848	45.086	87.73586667
Tm9sf2	chr14:122506303-122558825	45.07876667	45.8977
Chd2	chr7:80571537-80686632	45.07466667	34.19846667
Nqo2	chr13:34056527-34080334	45.05873333	16.13713333
Camk2n1	chr4:138011062-138016041	45.0565	58.55733333
Acin1	chr14:55260997-55305768	45.0564	35.59333333
Tmem147	chr7:31512719-31514553	45.0522	14.10608667
Ssr4	chrX:71032366-71036167	45.05066667	33.5298
Ascc3	chr10:50312474-50571008	45.02226667	30.13226667
Dnm1l	chr16:16312325-16359123	45.0104	53.06046667
Ube2i	chr17:25397455-25411255	44.99923333	54.02443333
Ube2d3	chr3:135101722-135130142	44.96716667	36.02323333
Wbp1	chr6:83069037-83071455	44.9529	78.43196667
Nfatc3	chr8:108583502-108654437	44.9004	43.92096667
Rbm26	chr14:105513735-105576544	44.89153333	31.91333333
Prr14	chr7:134615127-134620272	44.86153333	58.31806667
Kras	chr6:145165218-145198751	44.82666667	36.4358
Pdcd6	chr13:74440568-74454774	44.7859	44.19803333
Phf3	chr1:30859186-30920101	44.7621	45.43533333
Herc1	chr9:66198256-66356582	44.66833333	26.34166667
Txndc17	chr11:72021055-72023989	44.66823333	64.70683333

Ghr	chr15:3267759-3533230	44.652	20.4038
Drg1	chr11:3149924-3166389	44.62683333	28.9325
Dhx9	chr1:155302887-155334790	44.6163	62.67183333
Meis1	chr11:18780430-18918972	44.61496667	12.30623333
Zranb2	chr3:157197360-157211303	44.61243333	43.0224
Sprr3	chr3:92260423-92262642	44.59356667	152.8585667
Pds5a	chr5:66006498-66089095	44.5852	41.31896667
Stra13	chr11:120572254-120575081	44.56296667	22.64083333
Becn1	chr11:101149580-101163581	44.52353333	38.56933333
Arhgap8	chr15:84550481-84602637	44.51986667	28.05703333
Plagl2	chr2:153053504-153067094	44.48823333	34.76336667
Olfr1416	chr1:94376257-94377196	44.48366667	0.256220333
Ubap2	chr4:41141347-41222168	44.48123333	37.8471
Acadm	chr3:153585322-153607396	44.4726	22.00793333
Tlk1	chr2:70550464-70663537	44.4724	52.72543333
Ubr3	chr2:69735302-69862070	44.46413333	44.99933333
Baz1b	chr5:135663192-135721999	44.43056667	33.87996667
Ap2b1	chr11:83116198-83218535	44.41696667	38.53366667
Eppk1	chr15:75931917-75950625	44.4051	77.63663333
Wdr1	chr5:38918051-38952834	44.39266667	36.1234
Ahnak	chr19:9063773-9151409	44.3756	132.1549333
Cnot2	chr10:115922216-116018567	44.33043333	36.80773333
Ccdc59	chr10:105278534-105284566	44.32896667	25.77656667
Pura	chr18:36440815-36447898	44.26243333	38.45056667
Aff4	chr11:53164268-53235332	44.2528	44.0858
Yeats4	chr10:116652196-116661563	44.24486667	23.80757667
Tas2r136	chr6:132727196-132728180	44.24326667	4.444239
Vprbp	chr9:106724306-106783323	44.23643333	16.0609
Fam134b	chr15:25773018-25903442	44.19273333	43.37346667
Pogz	chr3:94641488-94687489	44.1859	46.6593
Scpep1	chr11:88785333-88816756	44.15943333	22.33436667
Gorasp2	chr2:70499565-70529782	44.135	41.13873333
0610007C21Rik	chr5:31351012-31356996	44.13284	26.5659
Atp1b3	chr9:96233094-96264718	44.1073	85.67726667
Aebp2	chr6:140571183-140625939	44.1037	19.78926667
Nol7	chr13:43493744-43498227	44.09296667	43.7851
Vcp	chr4:42992835-43013379	44.09216667	52.20446667
Nin	chr12:71112421-71212912	44.0921	18.01973333
Tsc22d3	chrX:137074067-137135061	44.05433333	107.413
Actr1a	chr19:46451303-46470225	44.01083333	41.45193333
Abcf1	chr17:36093763-36106695	44.00266667	25.9559
Stk24	chr14:121685562-121778452	43.97826667	44.11373333
Rmnd5a	chr6:71338627-71390631	43.96316667	48.50446667
Fundc1	chrX:17133694-17149423	43.943	42.5638
Snapin	chr3:90291947-90294935	43.93276667	41.96076667
Fxr1	chr3:33919000-33968266	43.90833333	68.70313333
Nacc1	chr8:87194377-87211761	43.8832	38.84883333
Akirin1	chr4:123412437-123427542	43.83776667	27.645
Ddb1	chr19:10680114-10704311	43.7922	59.34756667
Gab1	chr8:83288332-83404378	43.74913333	83.2205
Glt28d2	chr3:85673767-85691440	43.71493333	36.98316667
Rars	chr11:35621882-35648030	43.6611	44.01083333

Pdxdc1	chr16:13834022-13903228	43.6507	56.87666667
Sumo2	chr11:115384422-115397544	43.59456667	40.75723333
Phlda1	chr10:110943341-110945705	43.5669	48.60743333
Erlin1	chr19:44109432-44144275	43.5644	17.009
4932418E24Rik	chr2:26127166-26150077	43.54883333	40.24203333
Ap3b1	chr13:95128914-95336271	43.54626667	26.99056667
Eif2s3x	chrX:91434047-91457990	43.49723333	48.92196667
Pak2	chr16:32017948-32079359	43.49246667	30.9898
Pts	chr9:50329721-50336746	43.4602	25.00157333
Stt3b	chr9:115151699-115219539	43.41323333	48.89113333
Ndufa13	chr8:72418080-72426457	43.40216667	54.44126667
Otub1	chr19:7272695-7280774	43.2927	38.51836667
Hpse2	chr19:42863084-43462845	43.2887	0.293204
Zfp91	chr19:12841428-12870613	43.24966667	46.59833333
Stip1	chr19:7095185-7114516	43.21623333	42.2339
Kcnh8	chr17:52742087-53044544	43.20726667	20.1571
Map2k7	chr8:4238739-4247897	43.16073333	36.21143333
Rsu1	chr2:12998635-13192905	43.13293333	86.10426667
Metap1	chr3:138121923-138152346	43.1309	23.84803333
Sh3glb2	chr2:30200328-30214751	43.1212	74.8566
Mfap1b	chr2:121287401-121299759	43.10046667	40.16373333
Pitpna	chr11:75401609-75442280	43.00086667	31.83783333
Ndufs4	chr13:115078002-115178302	42.99053333	57.8968
Mctp2	chr7:79222715-79451481	42.98256667	24.78683333
4632427E13Rik	chr7:99889215-99889969	42.98123333	17.34840333
Psmc14	chr2:61549750-61638433	42.95546667	52.8
Lsm12	chr11:102024802-102046570	42.94986667	43.98593333
Whsc1	chr5:34185760-34240615	42.9095	27.27563333
Csk	chr9:57474452-57492987	42.90086667	30.5952
Pink1	chr4:137869324-137882211	42.89073333	32.77703333
Lef1	chr3:130813388-130926249	42.87426667	6.172656667
D930015E06Rik	chr3:83702208-83844083	42.85163333	41.61813333
Laptm4a	chr12:8928112-8945547	42.83756667	66.76313333
Rock1	chr18:10064398-10181790	42.82856667	41.4991
Dido1	chr2:180392668-180444704	42.79576667	42.7334
Lyg1	chr1:38003582-38014604	42.77533333	134.2826967
Arpc1a	chr5:145844737-145869625	42.72983333	56.057
R3hdm2	chr10:126827366-126936440	42.72916667	50.59793333
Gtf3c2	chr5:31458378-31482517	42.71	35.1037
Eps15l1	chr8:74864895-74945373	42.67943333	52.14453333
Sema3a	chr5:13396783-13603485	42.64383333	3.281176667
Kpna4	chr3:68876142-68931014	42.61686667	46.72816667
Rps7	chr12:29315711-29320818	42.61443333	64.37673333
Strbp	chr2:37425387-37502805	42.61273333	54.02843333
Reps1	chr10:17775745-17844961	42.59966667	29.1223
H2afj	chr6:136756768-136758595	42.5918	26.20523333
1110004E09Rik	chr16:90926055-90935094	42.56633333	43.59903333
5730494N06Rik	chr2:132065227-132073524	42.55953333	82.52066667
Cnn3	chr3:121129458-121161123	42.5439	32.13553333
Tmtc3	chr10:99906535-99949981	42.5342	33.8886
Zfhx2as	chr14:55691927-55694711	42.5318	25.43106667
Slpi	chr2:164179805-164182243	42.52806667	101.4120667

Cdc42bpa	chr1:181891219-182095733	42.5103	22.9444
Spag7	chr11:70477270-70482918	42.49976667	37.26996667
Nt5c	chr11:115351739-115353128	42.49613333	39.87486667
Cnot1	chr8:98243350-98331362	42.4895	48.8029
Gnl2	chr4:124707257-124732626	42.4736	31.31456
Ylpm1	chr12:86337270-86411465	42.467	41.3018
Ppl	chr16:5086383-5132574	42.45176667	63.11323333
Zmym2	chr14:57506631-57581416	42.43743333	60.40406667
Odc1	chr12:17551678-17558308	42.43633333	19.73402667
Txndc16	chr14:45754122-45839069	42.40936667	18.71353333
Cops7a	chr6:124908428-124915547	42.4086	42.5078
Sike1	chr3:102799662-102807837	42.40123333	31.1623
1110001J03Rik	chr6:38484860-38489449	42.3888	34.49738
Smarca4	chr9:21420612-21508674	42.3365	47.8046
Psmc6	chr14:45949498-45968746	42.31656667	50.56743333
Arhgef1	chr7:25688004-25711610	42.3095	30.55663333
Rpl27	chr11:101303558-101306910	42.2925	49.8857
Purb	chr11:6367601-6376079	42.27203333	52.11586667
Hist2h2aa2	chr3:96049503-96049896	42.2361	20.98406667
Agtppbp1	chr13:59550895-59658680	42.22743333	22.23043333
Epc1	chr18:6435948-6516085	42.21543333	44.05806667
Yars	chr4:128867038-128896851	42.14976667	15.5719
Srrt	chr5:137736931-137748902	42.1459	21.55033333
Phb2	chr6:124662306-124666963	42.1373	59.26256667
Pphln1	chr15:93228780-93322343	42.10526667	34.17376667
Vac14	chr8:113142537-113244299	42.08746667	30.31733333
Bglap-rs1	chr3:88172538-88173642	42.07848	47.30083333
Vps26a	chr10:61917590-61949553	42.06583333	49.39356667
Cxadr	chr16:78301935-78360030	42.04726667	39.06566667
Cmtm4	chr8:106872092-106919707	42.02346667	23.36183333
Arhgap18	chr10:26492317-26638454	42.0125	33.5032
Casp8	chr1:58852217-58904347	41.968	37.54846667
Ppp1r15b	chr1:135027742-135036377	41.94866667	33.36923333
Btbd7	chr12:104022857-104116616	41.93613333	34.2964
Mir719	chr14:60847642-60847752	41.928	0
Nbr1	chr11:101413420-101443265	41.90033333	48.4978
Trim26	chr17:36974085-36996325	41.84393333	31.38096667
Nisch	chr14:31984113-32020012	41.8405	51.0087
Prkaca	chr8:86496876-86520344	41.82603333	51.9018
Ctsb	chr14:63741298-63764760	41.82426667	33.9873
Spg21	chr9:65308743-65336277	41.8164	17.2822
Vti1b	chr12:80257003-80273445	41.8132	40.16833333
Pbrm1	chr14:31832323-31934778	41.79143333	49.87336667
Wnt5a	chr14:29318658-29338701	41.7477	3.977836667
Etf1	chr18:35062438-35091657	41.74736667	41.34563333
Mtap7	chr10:19868725-20001396	41.7296	25.5077
Ccdc55	chr11:76857793-76891937	41.72026667	32.4439
Dpp8	chr9:64880264-64930458	41.6905	54.51573333
Safb2	chr17:56702364-56724006	41.68706667	28.15066667
4933421O10Rik	chr4:33114113-33118298	41.64613333	11.27581
Pdcd4	chr19:53966720-54004351	41.62976667	73.84563333
Ets2	chr16:95924013-95942656	41.5769	30.1957

Strn3	chr12:52709527-52792901	41.57486667	50.20296667
Cas21	chr4:148178500-148329001	41.5621	69.60706667
1810006K21Rik	chr19:10278691-10282314	41.55033333	189.5567
Pfkfb3	chr2:11393057-11475556	41.54443333	31.8997
MacroD2	chr2:140221165-142215786	41.50336667	7.791773333
Med15	chr16:17651313-17723023	41.478	25.86986667
Srf	chr17:46683787-46693111	41.46753333	63.33926667
Rfk	chr19:17468532-17475839	41.45183333	30.34973333
Setd2	chr9:110435100-110521137	41.43396667	37.4823
Ndufaf2	chr13:108842782-108948819	41.43203333	58.8272
Scaf4	chr16:90229384-90284670	41.4089	39.74606667
Dpm3	chr3:89070473-89070999	41.40793333	25.70637333
Seh1l	chr18:67934529-67955141	41.39726667	17.412
Plscr1	chr9:92145031-92167399	41.38176667	9.442566667
Scarna3a	chr1:161270437-161270555	41.37766667	28.17363333
Eif4g1	chr16:20672821-20692956	41.36923333	40.9796
Nudt3	chr17:27716335-27760397	41.28156667	30.37316667
Rab5b	chr10:128114238-128133324	41.21393333	28.63213333
Ubr5	chr15:37897082-38008608	41.2072	45.88223333
Phc1	chr6:122267748-122287033	41.20243333	42.7022
Bex1	chrX:132748510-132750052	41.20056667	13.31301267
Ptn	chr6:36665662-36761361	41.20006667	37.06316667
Hist2h2aa2	chr3:96043780-96044173	41.15053333	19.381
Wbp5	chrX:132779618-132781678	41.1273	43.92033333
Hbegf	chr18:36664580-36675459	41.0964	73.00353333
Chkb	chr15:89256779-89260358	41.05416667	31.2539
Uba5	chr9:103948917-103965451	41.05326667	21.8639
Ube2r2	chr4:41083053-41140403	41.03863333	67.8551
Hmgb1	chr5:149858803-149864613	41.0151	26.3629
Zbtb4	chr11:69579413-69597528	40.98793333	32.21316667
Pgk1	chrX:103382462-103399038	40.90886667	38.80966667
Ube2d2	chr18:35931212-35966826	40.90173333	64.30833333
Prcp	chr7:100023762-100083091	40.883	58.39706667
Pttg1ip	chr10:77044511-77061477	40.84353333	43.3079
Dld	chr12:32016426-32036302	40.8382	50.15253333
Pdrg1	chr2:152834625-152841119	40.7841	38.8971
Frrs1	chr3:116562484-116606668	40.77956667	31.01693333
Arhgef12	chr9:42771924-42913801	40.77763333	47.94436667
Ndufa5	chr6:24468665-24477687	40.77236667	31.35683333
Zc3h13	chr14:75684179-75744233	40.76296667	28.89123333
Fhdc1	chr3:84246117-84284361	40.7599	16.4303
Dhx32	chr7:140912617-140968486	40.75073333	29.87066667
Raver2	chr4:100741642-100824975	40.68516667	4.690436667
Hectd1	chr12:52844708-52930523	40.68103333	56.3786
Mme	chr3:63099793-63186153	40.6737	12.98286333
Gak	chr5:108998432-109058758	40.67233333	31.32803333
Lmtk2	chr5:144861304-144949073	40.66153333	29.71053333
Gm11968	chr11:6072510-6073334	40.6506	87.1867
Ict1	chr11:115265079-115272227	40.6498	42.81928
Capg	chr6:72494432-72512974	40.6333	16.09173667
Scn2a1	chr2:65508501-65605504	40.62453333	3.289512667
Pmpcb	chr5:21242977-21262970	40.60013333	31.7846

Smap2	chr4:120640921-120689852	40.59986667	28.87433333
Usp47	chr7:119167019-119254900	40.59923333	40.71326667
Klhdc2	chr12:70397667-70411674	40.58863333	33.50086667
Pld2	chr11:70353665-70371612	40.57173333	20.26403333
Tjp1	chr7:72441050-72516130	40.53033333	24.3574
Slc25a23	chr17:57183133-57199286	40.51636667	35.3858
Stx16	chr2:173902551-173925272	40.4931	42.1646
Auh	chr13:52930478-53025046	40.48266667	68.23833333
Psmc4	chr7:28826720-28835111	40.4366	36.8003
Ppp2r5c	chr12:111685388-111821271	40.43506667	46.5243
Glyr1	chr16:5013994-5050003	40.4213	44.23236667
Pa2g4	chr10:127994821-128002990	40.41883333	82.14483333
Dnajc8	chr4:132091473-132109657	40.41176667	42.98083333
Spnb1	chr12:77681474-77811534	40.40233333	19.06315667
Ndufs8	chr19:3908869-3912717	40.38263333	44.54536667
Zdhhc9	chrX:45525147-45561879	40.37446667	43.85723333
Tcta	chr9:108205288-108208282	40.35483333	12.75293333
Mars	chr10:126733276-126748842	40.33623333	19.28014333
G530011O06Rik	chrX:166412974-166416849	40.32696667	12.64273333
AW555464	chr12:113960384-113984802	40.3152	43.42213333
Lrrc59	chr11:94491137-94506530	40.2854	35.9865
Id1	chr2:152562009-152563146	40.2831	154.3913667
Prdm2	chr4:142697293-142802612	40.27643333	46.35856667
Eef1d	chr15:75725229-75739770	40.26046667	43.16323333
Nme7	chr1:166237805-166367427	40.25803333	40.39793333
Atl3	chr19:7568529-7613099	40.2363	49.52923333
Elof1	chr9:21917432-21918613	40.2266	35.7884
Ubqln1	chr13:58277516-58317014	40.2038	37.7327
Pdia6	chr12:17273400-17291576	40.19903333	75.98003333
Orai3	chr7:134913328-134918664	40.16933333	11.82506667
Vamp4	chr1:164500958-164529209	40.13146667	23.0279
Sec62	chr3:30691797-30720185	40.12826667	32.5971
Kdm1a	chr4:136106447-136158638	40.1226	65.68743333
Rbm18	chr2:35971598-35992224	40.1044	21.71646667
Fam193a	chr5:34712581-34829107	40.0514	25.4301
Numa1	chr7:109118356-109163473	40.0335	38.87826667
Stap2	chr17:56136501-56144991	40.02853333	26.4778
Crct1	chr3:92818126-92819608	40.0062	30.83394
Hist2h4	chr3:96066892-96067240	39.96408	43.00066667
Sbds	chr5:130721601-130731332	39.95876667	21.63836667
9130024F11Rik	chr1:57028312-57032040	39.9494	16.7579
Hnrnp2	chrX:131135824-131141593	39.93303333	23.5009
Dopey2	chr16:93712151-93810833	39.90236667	31.02326667
Dnaja1	chr4:40669500-40684184	39.8814	42.11173333
Kif3b	chr2:153117151-153159125	39.85973333	34.58653333
Khdrbs1	chr4:129380412-129419547	39.80863333	39.24283333
2310016M24Rik	chr15:99556048-99558567	39.79236667	19.73669
Larp1	chr11:57822565-57875534	39.7652	58.98033333
Bloc1s2	chr19:44213736-44220936	39.7643	34.18806667
Pias1	chr9:62727883-62828686	39.74903333	28.97056667
Usp22	chr11:60965282-60988561	39.70953333	38.73313333
Rbm38	chr2:172847402-172860232	39.7031	149.295

Pspc1	chr14:57341285-57397153	39.6958	25.1536
Sec16a	chr2:26264950-26300736	39.65616667	37.67693333
Tmem127	chr2:127073710-127086500	39.63876667	32.19093333
Tomm6	chr17:47823593-47825335	39.60423333	43.76493333
Itfg1	chr8:88241455-88364848	39.59763333	57.89433333
Kpnb1	chr11:97021023-97049206	39.56336667	59.18213333
Agps	chr2:75670233-75769407	39.56226667	34.50683333
Arl6	chr16:59613146-59639165	39.55713333	38.91473333
Emp1	chr6:135312948-135333191	39.54103333	79.822
Qrich1	chr9:108419417-108462498	39.48893333	43.6578
Ncoa1	chr12:4247361-4484060	39.48426667	20.4988
Dnajc15	chr14:78226023-78274724	39.46493333	46.00893333
Vta1	chr10:14375138-14425295	39.4479	30.53333333
Gls	chr1:52220293-52290076	39.4441	47.19396667
Gab2	chr7:104230260-104457461	39.44336667	30.93703333
Ppp1r3b	chr8:36438794-36451191	39.42923333	3.32142
Ppa2	chr3:132973079-133041033	39.4217	31.83123
Scp2	chr4:107716434-107791152	39.4153	23.55983333
Rbm6	chr9:107675890-10775150	39.3985	35.32813333
Atxn2	chr5:122161617-122264959	39.38753333	35.27753333
Rab11a	chr9:64563106-64585563	39.36906667	51.84326667
Bbs4	chr9:59169772-59201315	39.3295	9.1852
Arrdc1	chr2:24780871-24790801	39.31906667	56.75193333
Opa3	chr7:19813737-19832166	39.2909	21.85226667
C330006A16Rik	chr2:25992326-25996026	39.28776667	38.5123
Ccng1	chr11:40562053-40568788	39.2775	29.32706667
2010003O02Rik	chr4:40216611-40217254	39.264	17.6056
Gbf1	chr19:46227047-46361000	39.25356667	27.70993333
Dmpk	chr7:19669197-19679169	39.2419	82.48166667
Tlr3	chr8:46481018-46495893	39.24093333	6.490206667
Zmiz1	chr14:26278670-26486233	39.22843333	63.2589
U2af1l4	chr7:31348358-31350383	39.2216	25.512
Atxn10	chr15:85166810-85294266	39.1999	44.5832
Bag6	chr17:35272122-35284267	39.16276667	40.9254
1110038B12Rik	chr17:35087180-35089416	39.14893333	57.12863333
Arid5b	chr10:67558340-67741474	39.10936667	38.3248
Wapal	chr14:35487113-35559403	39.1092	52.66883333
Grn	chr11:102291635-102298123	39.0942	58.8881
Smarcc1	chr9:110034527-110142682	39.05046667	64.61706667
Zranb1	chr7:140141304-140175634	39.02633333	22.00573333
6330578E17Rik	chr1:37473929-37486948	39.02176667	52.59646667
Snap23	chr2:120393406-120426458	38.9949	43.96826667
Gpkow	chrX:7274259-7287385	38.96046667	24.97923333
Smapi1	chr1:23852465-23929128	38.9204	21.14836
Luc7l	chr17:26389854-26422451	38.8675	43.95873333
Ppt1	chr4:122513469-122536418	38.86353333	50.2652
Mrpl48	chr7:107697630-107756510	38.85816667	14.14066667
Msh2	chr17:88071896-88123053	38.85003333	41.28263333
Cyp2j6	chr4:96182828-96220342	38.8069	22.67933333
Scamp1	chr13:94971387-95055236	38.7638	54.92073333
Afm	chr5:90947974-90982570	38.76319133	1.785373333
Pitpnc1	chr11:107069205-107332034	38.75603333	42.9229

Kdm5b	chr1:136456754-136529455	38.6836	54.7106
Gipc2	chr3:151756804-151828864	38.66536667	7.429333333
Fbxl3	chr14:103479455-103498726	38.64203333	44.1903
Odf2	chr2:29745239-29787266	38.63806667	44.08273333
Faim	chr9:98886791-98902438	38.6067	29.22213333
Dynlt1c	chr17:6853664-6860548	38.60136667	52.65593333
Gm6548	chr17:79249844-79251884	38.59783333	51.9314
Klf2	chr8:74842960-74845553	38.58346667	16.63349667
Rfx7	chr9:72380046-72470756	38.57983333	46.5308
Ift81	chr5:123000212-123064527	38.5344	24.78613333
Mocs2	chr13:115608444-115619628	38.50703333	53.7356
Mapk1	chr16:16983474-17047546	38.48786667	47.5921
2610016A17Rik	chr19:25745623-25746729	38.4877	8.190403333
Kdm2a	chr19:4316146-4397077	38.44973333	39.14233333
Mir702	chr5:137467302-137467411	38.44	0
Nbea	chr3:55429119-55987623	38.40876667	33.78356667
Lrrc6	chr15:66211419-66332472	38.4026	16.61543333
Mrpl27	chr11:94515104-94521401	38.40013333	44.78273333
Rpph1	chr14:51427121-51427446	38.378	49.56213333
Arfip1	chr3:84299985-84386547	38.35363333	42.8854
Ppfia1	chr7:151662659-151739634	38.34276667	37.57416667
Arhgap4	chrX:71139690-71156637	38.3098	4.05535
Cmas	chr6:142705205-142724234	38.28926667	69.79413333
Hdac9	chr12:35056361-35213754	38.2738	0.586974
Dnajc2	chr5:21263094-21290983	38.2661	27.99686667
Timm9	chr12:72224158-72237662	38.25016667	9.042108667
Mrpl53	chr6:83059101-83059926	38.24936667	33.9688
Apbb2	chr5:66689963-67010056	38.2298	14.6685
Ifnar2	chr16:91373027-91405832	38.22763333	17.52630667
Sepp1	chr15:3220766-3230508	38.2236	44.96473333
Coro2b	chr9:62267298-62384851	38.21166667	51.11576667
Trim12a	chr7:111448410-111464009	38.1943	14.83038333
Esrp2	chr8:108655082-108660874	38.1908	53.3377
Upf3a	chr8:13785614-13798537	38.1626	21.29337667
Lsm7	chr10:80315569-80317954	38.1437	35.55746667
Acyp1	chr12:86613347-86621385	38.14103333	40.0999
Lrba	chr3:86028611-86586616	38.09706667	36.59176667
Map2k1	chr9:64033599-64101412	38.09046667	36.50953333
1500011K16Rik	chr2:127617113-127618224	38.08973333	45.0157
Tmem176a	chr6:48791481-48795363	38.02043333	80.12866667
Sbno1	chr5:124818710-124875923	38.0003	42.3249
Ralbp1	chr17:66197768-66235095	37.98446667	42.08263333
Il4ra	chr7:132695795-132722988	37.97726667	23.36916667
S100g	chrX:159399923-159402531	37.95423333	51.9709
Ckap5	chr2:91386478-91460822	37.88046667	32.96103333
Bri3	chr5:145005305-145025442	37.85	20.3357
Dyrk1a	chr16:94791812-94917126	37.8487	27.9133
Itrip1	chr19:47969085-47993789	37.79766667	16.68896667
A730098P11Rik	chr16:24529399-24534558	37.78243333	45.75893333
Mycbp2	chr14:103512627-103746017	37.77886667	37.83103333
Hcfc1	chrX:71188133-71211654	37.77106667	37.63136667
R3hdm1	chr1:129999882-130134312	37.7672	28.09936667

Hist1h1e	chr13:23712496-23714427	37.7587	33.1299
Krt75	chr15:101393773-101404335	37.737	7.848285567
Mrps16	chr14:21210452-21212777	37.7325	10.05604667
Upp2	chr2:58607595-58643079	37.7269	0.4404033
Dag1	chr9:108108288-108166067	37.7221	72.3216
Mamld1	chrX:68303430-68407892	37.7219	15.05644333
Ctsa	chr2:164658372-164666532	37.6982	32.1501
Them5	chr3:94146020-94151274	37.67256667	135.4136
Rai12	chr11:69781726-69794737	37.65406667	40.2695
Kdm3b	chr18:34936661-34999024	37.63753333	46.53843333
Gpi1	chr7:34986345-35015324	37.62743333	45.47536667
Cdc26	chr4:62055622-62069657	37.624	34.22196667
Rnf167	chr11:70461090-70464916	37.6158	49.52333333
Trafd1	chr5:121821733-121835624	37.6107	31.423
Slc12a7	chr13:73901144-73954190	37.58836667	48.71676667
Ubr2	chr17:47065239-47147481	37.56433333	38.76126667
Dip2b	chr15:99869094-100049904	37.55636667	33.1394
Irf3	chr7:52253017-52258218	37.55303333	35.6097
Tas2r103	chr6:132986180-132987119	37.5372	0
Slc7a1	chr5:149138985-149211480	37.52526667	18.13706667
Kcnj5	chr9:32122367-32151822	37.52103333	20.6416
Rock2	chr12:16901783-16995080	37.5027	43.15786667
Edil3	chr13:88961076-89462830	37.50103333	9.32776
Pdia4	chr6:47746139-47763511	37.4994	46.38226667
Trp53	chr11:69393860-69405375	37.4952	40.58383333
Atp6v1b2	chr8:71612634-71637616	37.4658	56.6686
Slc25a11	chr11:70457528-70460541	37.4572	47.10746667
Pdha1	chrX:156560150-156576268	37.36343333	29.2808
Zfand6	chr7:91763563-91827861	37.3593	30.39416667
Stau1	chr2:166773641-166821778	37.3473	27.438
Tab2	chr10:7625445-7675921	37.32893333	49.22716667
Ganab	chr19:8972600-8991155	37.32513333	51.5252
Cbx1	chr11:96650449-96669954	37.31053333	30.48296667
Rps2	chr17:24857007-24858872	37.31023333	72.0032
Nop10	chr2:112102125-112103055	37.2949	54.61593333
Coq2	chr5:101083744-101103275	37.27963333	29.88446667
Dynlt1c	chr17:6600903-6607786	37.2715	45.96776667
Asl	chr5:130487372-130500201	37.22266667	24.9871
Jag2	chr12:114146800-114167706	37.21726667	40.26903333
Ppil2	chr16:17086648-17111345	37.20213333	29.93486667
Pten	chr19:32832066-32900650	37.18966667	37.0125
Fbxo9	chr9:77929305-77956860	37.1893	29.2572
Gm94	chr18:43936849-43952532	37.16596667	98.3743
Larp1b	chr3:40754552-40781715	37.1428	18.20417
Rbpms	chr8:34893115-35040313	37.12953333	8.722403333
Aspscr1	chr11:120534286-120570760	37.12646667	27.5514
G6pdx	chrX:71654824-71674500	37.1253	60.3473
Pygo1	chr9:72773456-72793822	37.1157	34.17266667
Gatad1	chr5:3639960-3647936	37.11403333	24.63206667
Zcchc9	chr13:91936137-91947301	37.11386667	33.60213333
Ncbp2	chr16:31948631-31958558	37.11173333	41.21336667
Zc3h14	chr12:99985177-100025984	37.10173333	27.1592

Calm3	chr7:17500727-17509381	37.09273333	23.01720667
Zfp386	chr12:117285934-117299062	37.0776	25.97063333
Nae1	chr8:107034927-107058537	37.06923333	34.64943333
Sap130	chr18:31794036-31882715	37.06563333	28.7651
Irf9	chr14:56222821-56228867	37.0604	29.4783
Hes6	chr1:93308059-93309799	37.0588	188.3526667
Ruvbl2	chr7:52677267-52689834	37.0498	25.40455667
Ndufb2	chr6:39542581-39549470	37.02876667	41.01533333
Rab18	chr18:6765202-6790229	37.0286	36.9191
Gtpbp2	chr17:46297980-46306319	36.99836667	21.2274
Ankrd37	chr8:47082261-47085204	36.9311	60.41016667
Arhgap5	chr12:53617063-53668838	36.9265	24.50203333
Exosc3	chr4:45329501-45333475	36.92423333	15.62333333
Cryba2	chr1:74936517-74939709	36.87756667	31.65736667
Nup205	chr6:35127615-35197598	36.87613333	8.269483333
Fam160a1	chr3:85463984-85550131	36.8608	34.39436667
Park7	chr4:150271241-150284030	36.8443	63.71333333
Dpagt1	chr9:44134927-44141683	36.8171	11.62982333
Gm608	chr16:44173509-44227578	36.81153333	37.0302
Ptpn18	chr1:34516590-34530624	36.8009	25.93633333
Taldo1	chr7:148578058-148588875	36.79573333	34.42106667
Brd8	chr18:34758268-34784464	36.79286667	26.06513333
Dctn4	chr18:60685874-60718416	36.77323333	41.58796667
Tmed4	chr11:6170716-6174840	36.75586667	38.3945
A930001N09Rik	chr17:26852594-26913571	36.73196667	25.61066667
Tgfb3	chr12:87397692-87419991	36.7256	64.07906667
Strn	chr17:79053303-79135900	36.7253	33.69393333
Mknk2	chr10:80128073-80134721	36.7052	26.63126667
Krt15	chr11:99993072-99997263	36.70106667	184.6412
Zfml	chr6:83864346-83936865	36.69663333	43.97003333
Atp6v0c	chr17:24300832-24306374	36.68366667	35.3813
Rogdi	chr16:5008821-5013646	36.67503333	52.57093333
9030625A04Rik	chr14:77424007-77436424	36.66946667	5.740933333
Usp9x	chrX:12648623-12750453	36.63366667	56.0496
Klk14	chr7:50945787-50950905	36.61733333	41.48156667
Camta2	chr11:70482964-70501607	36.59373333	36.30073333
Mta2	chr19:9016409-9026790	36.5864	39.5106
Rab24	chr13:55420583-55423341	36.5861	52.11783333
Lsmd1	chr11:69209292-69210173	36.58073333	66.2283
Eif6	chr2:155645572-155652661	36.578	35.06653333
Whsc1l1	chr8:26712777-26830139	36.55636667	36.86326667
Bod1	chr11:31565149-31571862	36.5371	36.8369
Fyb	chr15:6529870-6613312	36.5253	4.350273333
Fkbp3	chr12:66163418-66174925	36.51806667	68.6051
Mkl2	chr16:13256573-13417622	36.50033333	46.28146667
Bmyc	chr2:25562398-25563239	36.4963	51.13103333
Tmsb10	chr6:72907340-72908742	36.47603333	40.76713333
Utp11l	chr4:124356007-124370798	36.44443333	34.5675
Lyst	chr13:13682675-13869707	36.4288	11.01955667
Alkbh6	chr7:31093771-31099322	36.3854	42.85926667
Pde4dip	chr3:97493751-97692630	36.38076667	16.5603
Stxbp1	chr2:32643126-32702757	36.3784	37.23576667

Golga7	chr8:24351797-24367552	36.37656667	34.35736667
Morn2	chr17:80689551-80696816	36.34716667	10.98197667
Megf9	chr4:70092960-70195962	36.3389	51.15106667
Sesn3	chr9:14080744-14130578	36.33206667	33.40203333
Unc50	chr1:37487016-37495969	36.32466667	43.46736667
Atxn7l1	chr12:33832550-33936022	36.32096667	8.089736667
Fam50a	chrX:71558371-71565488	36.3203	15.60125
Syt12	chr7:97497208-97558949	36.31793333	8.843273333
Tspyl1	chr10:34001995-34004691	36.2948	28.6096
Nf2	chr11:4665847-4749547	36.28613333	39.64676667
Rab21	chr10:114726917-114752647	36.2148	37.63876667
Psmg4	chr13:34254845-34270041	36.21106667	18.17812667
Alg14	chr3:120994734-121064929	36.1913	25.09165667
Rps6kb1	chr11:86312512-86358309	36.1884	29.59386667
Hist2h3c1	chr3:96050607-96052432	36.15273333	16.57989333
Kctd18	chr1:58011944-58026928	36.10483333	24.37237333
Rap1a	chr3:105531199-105604254	36.1022	29.50192667
Eif2s2	chr2:154697145-154718642	36.09436667	38.20336667
Gm6251	chr10:19928244-19928836	36.08346667	52.21573333
Ubp1	chr9:113840051-113886319	36.04826667	30.22346667
Capn7	chr14:32149909-32185169	36.03703333	32.5073
Hist3h2a	chr11:58768186-58770176	36.02916667	44.10983333
Gsk3a	chr7:26013277-26022870	36.02656667	33.0878
Pacs1	chr19:5133684-5273119	36.01823333	45.78433333
Tnrc6c	chr11:117515602-117624753	36.01166667	36.77113333
Pdgfa	chr5:139452928-139470907	36.00923333	47.25903333
Vps53	chr11:75859727-75993132	35.95413333	40.88373333
2310033P09Rik	chr11:59021862-59024236	35.9132	16.15451667
Herc3	chr6:58783693-58870390	35.90953333	27.43693333
Mkrn1	chr6:39347819-39370368	35.90506667	27.76503333
Cdk13	chr13:17807795-17896931	35.89956667	22.97753333
Emd	chrX:71500177-71503086	35.89896667	44.0332
Gtf2a1	chr12:92793701-92828927	35.8967	29.1573
Ttc5	chr14:51385089-51405193	35.87953333	22.5337
Serp1b12	chr1:108831025-108853657	35.86653333	88.44983333
Rps19-ps3	chr4:147195885-147196311	35.83986667	35.7195
Rasl11b	chr5:74591350-74595502	35.80516667	24.51782667
Cbfb	chr8:107694573-107741888	35.79476667	56.99823333
Eif3l	chr15:78905652-78924830	35.76036667	54.4125
Pafah1b2	chr9:45773393-45792954	35.7494	52.05146667
9130011J15Rik	chr8:75089096-75094947	35.7427	36.22883333
Jph1	chr1:16985020-17087970	35.71513333	13.85433333
Mtdh	chr15:34012473-34072140	35.71376667	42.16396667
Cic	chr7:26067197-26079167	35.6888	25.3897
Nck1	chr9:100395421-100446472	35.68876667	25.69619333
Znrf1	chr8:114060539-114149930	35.68186667	29.1081
H2-T23	chr17:36166921-36169646	35.67736667	31.89186667
Tmbim4	chr10:119645881-119661953	35.6511	38.72386667
Acsl3	chr1:78654399-78704318	35.64623333	26.45863333
Chordc1	chr9:18096710-18118444	35.64043333	31.32493333
Nhp2l1	chr15:81871774-81878028	35.5736	41.55106667
Psen1	chr12:85029512-85076149	35.54376667	39.23383333

Zfr	chr15:12047605-12115205	35.5436	32.99583333
Fam63b	chr9:70446820-70504981	35.52053333	31.31276667
E330033B04Rik	chr15:96098994-96105706	35.51723333	2.789303333
Serinc1	chr10:57235581-57252335	35.48576667	59.6229
Pot1a	chr6:25693734-25759226	35.47723333	20.75656667
Rnps1	chr17:24551619-24562842	35.46913333	41.12596667
Tgfa	chr6:86145244-86225443	35.4662	18.76212
Gadd45b	chr10:80392835-80394949	35.46126667	12.06971
Pwwp2a	chr11:43495499-43536135	35.42176667	16.8199
Psme4	chr11:30671774-30780361	35.4173	36.70476667
Npdc1	chr2:25258602-25265014	35.41013333	35.6831
CrelD2	chr15:88650075-88657111	35.40313333	59.5489
Atp6v0e2	chr6:48487567-48491799	35.39863333	32.4881
Jtb	chr3:90035518-90039762	35.39373333	38.64123333
Riok3	chr18:12287358-12315876	35.39373333	30.05286667
Mical3	chr6:120957257-121031627	35.3876	25.17193333
Ccdc115	chr1:34493514-34496517	35.37986667	46.4014
NdrG3	chr2:156753077-156817847	35.37113333	36.89996667
Galnt1	chr18:24363844-24445317	35.36813333	49.59356667
2510003E04Rik	chr10:62021217-62041205	35.36813333	25.04796667
Chmp4b	chr2:154482761-154520519	35.35803333	23.5443
2310004N24Rik	chr11:116060168-116076632	35.35036667	43.73346667
Sel1l	chr12:93044482-93087597	35.34693333	32.88133333
2810428I15Rik	chr8:73028194-73030638	35.34553333	27.02016667
Nrcam	chr12:45429871-45702833	35.3377	28.76253333
Fbxo11	chr17:88390198-88464625	35.33363333	31.25513333
Stxbp2	chr8:3631159-3643644	35.3283	35.42866667
Scarb2	chr5:92872898-92934634	35.3204	21.30193333
Ctdnep1	chr11:69794669-69804102	35.24246667	18.89413333
Taf9	chr13:101421297-101436368	35.23786667	56.6075
Cdc25b	chr2:131012683-131024247	35.22146667	54.66703333
Blmh	chr11:76759157-76800891	35.22103333	35.50613333
Lrrc58	chr16:37868485-37888943	35.2078	49.94756667
Il6st	chr13:113254277-113297068	35.1858	23.9439
Tanc2	chr11:105451299-105790617	35.16423333	47.90883333
Farsb	chr1:78421410-78485421	35.0984	25.9112
Sra1	chr18:36826840-36829965	35.07166667	35.2859
Stat1	chr1:52176281-52218709	35.06613333	22.03708
Tcf12	chr9:71692058-71959626	35.05773333	27.3055
Gm5643	chr15:103070884-103075386	35.0548	65.7667
Cdk12	chr11:98064618-98114854	35.04063333	45.0172
Snx6	chr12:55847343-55896649	35.03756667	45.693
Stub1	chr17:25967580-25970306	35.0368	37.2984
Ttc25	chr11:100406945-100433880	35.03556667	3.21787
Ly6g6d	chr17:35208292-35211409	35.02995333	26.46726667
Dclk2	chr3:86590071-86724806	35.02626667	28.02936667
Pgd	chr4:148524093-148540816	35.01723333	36.402
1700020I14Rik	chr2:119420031-119426480	34.97846667	36.66246667
Parp12	chr6:39036410-39068348	34.97583333	9.486603333
Ddx50	chr10:62078770-62113946	34.96513333	39.61503333
Nucks1	chr1:133807034-133832898	34.95843333	39.79286667
Psd3	chr8:70212980-70498473	34.94833333	36.10596667

Fut8	chr12:78339090-78576983	34.944	12.80272667
Foxn3	chr12:100433303-100688284	34.9349	26.6566
Tst	chr15:78229985-78236289	34.93253333	69.29726667
Rfx3	chr19:27836210-28085656	34.93226667	69.13943333
Rbx1	chr15:81296745-81306799	34.88046667	31.94093333
Pcna	chr2:132075021-132078916	34.84213333	39.65853333
Nemf	chr12:70412529-70458163	34.82353333	39.80033333
Gm20300	chr10:30323000-30326440	34.81086667	34.99036667
Thap3	chr4:151356746-151363095	34.7573	12.02893333
Vkorc1	chr7:135036576-135039131	34.74853333	23.8054
Itgb1	chr14:124059361-124373301	34.74846667	4.539136667
Chd9	chr8:93352733-93578407	34.74783333	36.85556667
Rnf149	chr1:39608143-39634192	34.72973333	38.46423333
Nt5c3	chr6:56832394-56873926	34.72563333	17.02156667
Grsf1	chr5:89088261-89105196	34.71586667	41.32753333
Mei4	chr9:81757350-81921098	34.69886667	4.004076667
Ncstn	chr1:173996143-174012880	34.67626667	43.83036667
Rsad2	chr12:27127607-27141317	34.67286667	3.833126667
Marcks1	chr4:129190824-129193225	34.64783333	41.50406667
Prkci	chr3:30894692-30951662	34.64383333	30.1045
Hspa2	chr12:77505162-77507923	34.63106667	41.7689
Snx14	chr9:88271584-88333789	34.62973333	18.65165333
Lsr	chr7:31742788-31758488	34.60716667	36.63123333
B4galt6	chr18:20843099-20904905	34.5982	19.0285
Arc4	chr6:113328106-113340441	34.5927	43.37216667
Sap18	chr14:58417025-58423817	34.53766667	15.78804667
Pnpla2	chr7:148641086-148646642	34.52096667	27.2413
Smad4	chr18:73798666-73863395	34.5195	32.03576667
Rchy1	chr5:92377929-92392094	34.51116667	18.54294
Hn1	chr11:115358666-115375684	34.50443333	53.9996
Ptpn3	chr4:57203712-57314709	34.4954	25.1706
Slc25a17	chr15:81149350-81191195	34.49506667	52.6346
Brp44l	chr17:8476677-8490526	34.4921	30.78203333
Hadhb	chr5:30481861-30511123	34.46753333	48.93333333
Ccdc53	chr10:87663841-87708903	34.43553333	42.9875
H2-Ke6	chr17:34162977-34165000	34.35203333	18.098
Gstp1	chr19:4035410-4037912	34.33563333	39.99886667
Usp34	chr11:23206894-23390560	34.3337	35.8228
Cry1	chr10:84594444-84647799	34.3144	11.06111667
Prmt1	chr7:52232124-52241790	34.2811	43.08223333
Lnpep	chr17:17664686-17761453	34.25273333	40.8846
Ppip5k2	chr1:99602622-99666669	34.24966667	20.1507
Cxxc1	chr18:74375865-74381145	34.24233333	36.78386667
Cdc73	chr1:145454628-145549814	34.23523333	37.86946667
Sos2	chr12:70684747-70782839	34.23033333	29.65636667
Tmcc3	chr10:93977601-94053699	34.2167	27.22016667
Braf	chr6:39553236-39675462	34.21063333	31.89573333
Rbm17	chr2:11507065-11524826	34.19386667	30.60296667
Tubb5	chr17:35970864-35975246	34.18336667	58.4392
Tollip	chr7:149067489-149088311	34.1667	15.11345
Sgpp1	chr12:76815234-76836716	34.15303333	57.78233333
Ankrd13a	chr5:115225148-115255829	34.14683333	26.2136

Ulk1	chr5:111213507-111239100	34.13793333	73.16633333
C2cd2l	chr9:44117319-44128365	34.13746667	29.7185
Slc39a6	chr18:24738381-24762318	34.1123	52.98426667
Ppp4c	chr7:133929381-133935985	34.1057	12.48614667
Ppif	chr14:26513655-26519952	34.10473333	59.7288
Usp31	chr7:128785534-128850767	34.0881	14.20595333
Med1	chr11:98013468-98054607	34.0741	38.84893333
Commd4	chr9:57002847-57006106	34.071	45.90476667
Dlst	chr12:86451782-86475041	34.06186667	25.71223333
Tsnax	chr8:127536896-127558092	34.04723333	36.13776667
Taz	chrX:71528035-71535490	34.03696667	25.36898
Ndufs1	chr1:63190165-63223396	34.02396667	25.37466667
Srpk2	chr5:23009173-23122389	34.01936667	21.5434
Celf1	chr2:90780553-90859654	33.95943333	32.77206667
Ezh1	chr11:101052428-101087764	33.94723333	13.72773333
Cisd2	chr3:135069375-135086397	33.93866667	21.31803333
Cyb561	chr11:105795017-105805461	33.93806667	51.11713333
Fkbp8	chr8:73051641-73059227	33.91666667	30.19346667
Gpr108	chr17:57374337-57387064	33.90743333	52.24616667
Rcc2	chr4:140257387-140279135	33.89496667	38.04983333
Cdc37	chr9:20942984-20954350	33.88673333	15.51159333
Txn1	chr18:63822454-63852013	33.86783333	30.6655
Cmtm8	chr9:114698462-114753270	33.86436667	12.85598
Cldn25	chr16:58728022-58734360	33.8506	53.96233333
Fytd1	chr16:32877869-32909049	33.84	60.04983333
Usp12	chr5:147546387-147606532	33.83086667	13.78744333
Phf10	chr17:15081999-15098237	33.8247	26.6637
Fam168b	chr1:34870062-34899895	33.82463333	40.29573333
Cd74	chr18:60963502-60972306	33.81331	40.44177897
Clip1	chr5:124029078-124134300	33.77833333	43.87906667
Ssh2	chr11:77029926-77273721	33.75816667	80.32793333
Zfp169	chr13:48583028-48608805	33.73856667	13.4825
Cgn	chr3:94563991-94590437	33.73796667	15.39889333
2610101N10Rik	chr9:95357312-95412415	33.73356667	29.1093
Smek1	chr12:102277618-102321912	33.7301	28.10413333
Atf2	chr2:73654578-73730685	33.727	37.6794
Stk38l	chr6:146673451-146727336	33.71656667	26.8208
Hist1h4k	chr13:21842062-21842374	33.70976667	6.05167667
Dusp14	chr11:83861546-83881859	33.7054	22.1042
Junb	chr8:87500807-87502647	33.6922	34.59446667
Mga	chr2:119722963-119795317	33.67453333	34.18483333
Tmeff1	chr4:48598064-48676003	33.67306667	26.57336667
Ppp3cb	chr14:21318535-21365795	33.6673	28.51473333
A830007P12Rik	chr2:25048239-25052333	33.6657	18.64753333
Rabgap1	chr2:37298804-37421957	33.6656	60.13693333
Poldip3	chr15:82956407-82979766	33.6636	37.36596667
Efcab4a	chr7:148646992-148652501	33.64316667	16.09196
Spata13	chr14:61253565-61383393	33.634	4.056392
Amn1	chr6:149106098-149137234	33.62273333	18.60823333
Pigq	chr17:26063368-26078907	33.6098	23.97613333
Ttc3	chr16:94592345-94690828	33.6001	40.8311
Ppp1r2-ps3	chr19:30613365-30614169	33.59653333	28.80026667

Gbbp11	chr4:116230331-116266487	33.58096667	46.93776667
Aimp1	chr3:132323461-132346843	33.57876667	42.91293333
Zfp445	chr9:122758027-122775124	33.5757	42.4525
Rnpepl1	chr1:94807401-94817162	33.57556667	52.69926667
Stat3	chr11:100748123-100800825	33.5578	40.49163333
Zmat3	chr3:32233715-32264587	33.53986667	34.89276667
Nras	chr3:102862207-102871837	33.5255	58.66346667
Rab11b	chr17:33879428-33897431	33.51536667	35.0873
Lars	chr18:42362002-42421725	33.503	19.66086667
0610037P05Rik	chr16:14299336-14317425	33.50113333	43.51493333
Flii	chr11:60527650-60540723	33.49523333	30.49306667
Cbl	chr9:43957344-44042129	33.46156667	47.19753333
Prkcsb	chr9:21807478-21818666	33.4545	23.40296667
Cisd3	chr11:97547265-97549939	33.45146667	24.10496667
Pgbd5	chr8:126892948-126957836	33.424	31.31026667
Ppp6c	chr2:39052317-39081858	33.4101	63.58516667
Nrip1	chr16:76291106-76373294	33.38733333	27.57863333
Fbxl16	chr17:25946029-25958210	33.3695	13.62911667
Rap2a	chr14:120877682-120906414	33.36226667	28.8674
	7-Sep chr11:53333237-53357598	33.35293333	22.53163333
Khsrp	chr17:57160471-57170930	33.346	30.09426667
Supt16h	chr14:52780093-52816914	33.34006667	39.17343333
Art5	chr7:109245392-109248743	33.30533333	1.3338136
Svil	chr18:5046586-5119291	33.28833333	41.81186667
Sdf2	chr11:78059247-78068998	33.2774	45.46343333
Matr3	chr18:35721811-35751699	33.2672	28.88806667
Cldn4	chr5:135420992-135422804	33.21823333	58.67513333
Ptov1	chr7:52118437-52125158	33.21023333	56.83493333
Nme1	chr11:93820238-93829835	33.19103333	35.35493333
Tubb2b	chr13:34218876-34222223	33.18866667	47.03113333
D030016E14Rik	chr8:48575481-48618824	33.18633333	23.26486667
Srebf1	chr11:60012590-60034106	33.1843	26.92966667
Lrp10	chr14:55082983-55089128	33.15526667	27.58179667
Kctd10	chr5:114813580-114830514	33.1512	43.72146667
Tor1aip2	chr1:157882793-157915989	33.12686667	52.6306
Eapp	chr12:55774453-55796852	33.1261	36.0324
Zmiz2	chr11:6289366-6306165	33.11746667	46.77766667
Thrap3	chr4:125841326-125879954	33.11563333	31.51993333
Adra1b	chr11:43588107-43649834	33.10726667	0.039593667
Trerf1	chr17:47277890-47496407	33.0948	19.866
Slc27a2	chr2:126378759-126413979	33.09373333	20.77186667
Hiat1	chr3:116334084-116365595	33.08586667	44.97486667
Dctn5	chr7:129276554-129292558	33.07716667	55.42603333
Tspyl3	chr2:153048105-153051177	33.07616667	12.29245667
Smad1	chr8:81862297-81923367	33.06703333	25.68673333
Stc2	chr11:31259440-31270061	33.05186667	11.73753333
Snrnp48	chr13:38296807-38319532	33.02766667	19.0744
Frg1	chr8:42482807-42502472	33.0235	21.46073333
Tnpo1	chr13:99612035-99696339	33.02173333	29.6265
Ccdc88a	chr11:29273774-29410811	33.01886667	35.3759
Supt6h	chr11:78020250-78059205	33.01666667	30.91773333
Crk	chr11:75492811-75519594	32.99733333	32.99353333

Anxa11	chr14:26661640-26706290	32.98896667	19.72907333
Sec22b	chr3:97705149-97726241	32.97883333	35.8715
Api5	chr2:94251883-94278304	32.97426667	46.86006667
Med21	chr6:146591100-146599122	32.9439	56.14276667
Tcf4	chr18:69504145-69847621	32.9265	114.59
Pigp	chr16:94580369-94592622	32.92266667	32.72323333
Copb1	chr7:121359072-121398194	32.9213	41.29773333
3110003A17Rik	chr10:17731066-17743058	32.90853333	21.1527
Exoc4	chr6:33199149-33922930	32.89546667	31.6685
Man2a2	chr7:87493982-87516261	32.87553333	57.01366667
Cmtm6	chr9:114640320-114658461	32.86553333	26.20486667
Ppil4	chr10:7512691-7542361	32.8622	28.50886667
Ndrp1	chr15:66760879-66801203	32.8622	25.6516
Akr1e1	chr13:4591735-4608410	32.8567	20.23061333
Rab11fip4	chr11:79404713-79507514	32.853	12.45118667
Ypel5	chr17:73186043-73200535	32.8252	31.75176667
Pax9	chr12:57796625-57812217	32.80916667	92.51346667
Atl2	chr17:80247731-80295463	32.7943	41.46996667
Hagh	chr17:24987434-25001395	32.7927	31.00326667
Zc3h15	chr2:83484734-83504773	32.78723333	29.35273333
Zfp266	chr9:20299512-20325863	32.7714	50.16323333
Ubtf	chr11:102165873-102180410	32.77056667	29.60216667
Rybp	chr6:100178558-100237352	32.7678	38.0444
Snx9	chr17:5841379-5930711	32.76613333	11.41300667
Ceacam2	chr7:26301060-26325023	32.75476667	12.0262
Ap2s1	chr7:17323792-17334639	32.75393333	37.8921
Cdcp1	chr9:123081402-123125156	32.7317	40.95953333
Atp6v1h	chr1:5073253-5152630	32.7276	40.433
Snrpe	chr1:135500447-135506857	32.7275	62.10056667
Gm1337	chr2:118524838-118529699	32.72673333	143.503
Osbpl9	chr4:108733749-108874877	32.71653333	16.10023333
Phc2	chr4:128331945-128430125	32.70903333	25.7156
Gm20125	chr10:16670899-16815588	32.66576667	0.135535667
Snf8	chr11:95896230-95908719	32.6591	16.94274
Rnf6	chr5:147020769-147033033	32.6562	22.42763333
Ubl5	chr9:20447761-20451233	32.64073333	34.01386667
Ubr4	chr4:138936573-139045447	32.60036667	33.86186667
Gadd45a	chr6:66985089-66987401	32.60003333	40.23026667
Ppp6r3	chr19:3454927-3575749	32.5976	45.84563333
lars	chr13:49777498-49829636	32.59743333	24.7494
Ppp5c	chr7:17589989-17613263	32.59283333	33.5138
Cpped1	chr16:11803813-11909516	32.58006667	32.17026667
Med10	chr13:69948759-69954972	32.56733333	19.7794
Syn3	chr10:85511490-85961641	32.56693333	13.93781
Rpl36a	chrX:131120192-131122601	32.56443333	60.3401
Samm50	chr15:84022662-84044733	32.55946667	27.55503333
Hipk3	chr2:104266638-104334646	32.5577	30.42583333
Kpna6	chr4:129321222-129350011	32.5442	35.77893333
Leo1	chr9:75289330-75314239	32.53106667	35.04233333
Stox2	chr8:48265401-48437702	32.52113333	113.503
Rcor3	chr1:193924342-193961669	32.5055	20.1491
Dusp19	chr2:80457370-80471818	32.49223333	24.65183333

4930427A07Rik	chr12:114394631-114403669	32.49056667	15.42066667
Tmem191c	chr16:17276392-17278754	32.481	34.18196667
Akt2	chr7:28376578-28424472	32.4804	27.4971
Qtrt1	chr9:21216280-21224723	32.44513333	13.71578667
Cpt1a	chr19:3323300-3385733	32.42503333	45.74796667
Slc6a8	chrX:70918471-70927839	32.4239	31.0717
Mgst3	chr1:169302514-169323928	32.41556667	42.56283333
Lrrc8d	chr5:106128987-106244234	32.34683333	20.9225
Stx7	chr10:23869122-23908765	32.34106667	30.4012
Pak4	chr7:29343837-29383203	32.34076667	24.9809
Sos1	chr17:80793091-80879793	32.3393	22.00713333
Mzt1	chr14:99433762-99445355	32.3314	18.32286667
	5-Mar chr15:31385653-31460792	32.32833333	33.8704
Agpat1	chr17:34742805-34750394	32.315	33.25113333
Birc6	chr17:74927634-75103113	32.3093	35.58166667
Chat	chr14:33221388-33279095	32.30546667	0.738948467
Bhlhe40	chr6:108610622-108616919	32.2863	21.10523333
5730469M10Rik	chr14:41807028-41827064	32.27413333	58.74056667
9130017N09Rik	chr10:79283765-79293197	32.24876667	27.09996667
Dnttip2	chr3:121977331-121988189	32.24226667	34.49303333
Iscu	chr5:114222820-114228291	32.23126667	25.2515
Phip	chr9:82759765-82869096	32.20756667	29.2003
Tas2r125	chr6:132859668-132860604	32.18486667	0
Pvrl2	chr7:20301992-20334922	32.18216667	14.10041333
Rps13	chr7:123475020-123477704	32.1814	47.0519
Gnpat	chr8:127386932-127413957	32.1787	36.80173333
Ctbp2	chr7:140178693-140315166	32.164	17.6004
2900053A13Rik	chr8:3621550-3624235	32.16113333	9.40263
Cnksr1	chr4:133783956-133794314	32.16046667	19.9295
Nucb1	chr7:52748043-52765778	32.12553333	44.5241
Ctdsp1	chr1:74438182-74443859	32.11226667	23.84746667
Clec2d	chr6:129130632-129136553	32.08833333	18.40106667
Foxj2	chr6:122770201-122795384	32.07436667	18.38756667
Rgs13	chr1:145985796-146024502	32.06676667	4.137443333
Vps39	chr2:120142196-120178869	32.0634	24.3117
Mdm4	chr1:134886421-134921925	32.0505	45.66246667
Cib1	chr7:87372045-87377502	32.04683333	22.3554
3110056K07Rik	chr12:72092601-72116810	32.03491667	5.921423333
Tcea1	chr1:4847774-4887990	32.03083333	41.80626667
Ubn2	chr6:38383924-38462763	32.0124	33.60376667
Clasp1	chr1:120285634-120506039	32.00426667	24.62953333
Itga6	chr2:71625139-71694815	31.97336667	29.52596667
Rabgap1l	chr1:162149304-162723069	31.9611	23.33876667
Arih1	chr9:59236360-59334181	31.93883333	38.47293333
4930588N13Rik	chr5:150242280-150273195	31.92666667	3.641513333
Epb4.1l5	chr1:121441609-121545577	31.9036	25.84513333
Rgs8	chr1:155500166-155544795	31.89536667	52.963
Clic5	chr17:44325520-44417117	31.89246667	12.99
Foxo3	chr10:41905591-41996548	31.8915	36.20126667
Plekhn1	chr4:155595564-155602651	31.8828	30.55603333
Ranbp9	chr13:43498041-43576342	31.87453333	57.1009
Krtcap2	chr3:89050359-89053644	31.8505	24.43126667

Dvl1	chr4:155221520-155233412	31.8358	137.717
Bmi1	chr2:18598644-18608256	31.8299	10.22604333
Serpnb5	chr1:108757756-108779925	31.82543333	66.63616667
Phf8	chrX:147955214-148068400	31.81983333	24.08273333
Zyx	chr6:42299826-42308394	31.8039	54.3168
Brcc3	chrX:72661966-72701040	31.79942333	27.76683333
Hnrnp1	chr7:29595908-29607285	31.79863333	38.54763333
Ccdc12	chr9:110559006-110614097	31.79136667	22.6385
Sel1l3	chr5:53498321-53604691	31.7638	21.55757
Plekhb2	chr1:34906803-34936430	31.75653333	35.05686667
2510039O18Rik	chr4:147315003-147321423	31.74326667	22.5186
Deb1	chr9:121619506-121622039	31.74284333	39.19780333
Guk1	chr11:58997356-59005454	31.7413	64.03066667
Mrps18c	chr5:101227777-101233486	31.72263333	16.96213333
Kdelr2	chr5:144165498-144182955	31.7033	51.19363333
Klc1	chr12:112997059-113044986	31.68193333	48.97396667
Bcl2l11	chr2:127951773-127988283	31.6801	17.05826667
Nrxn1	chr17:90432983-91492142	31.67773333	23.6653
Ttc9c	chr19:8883564-8893784	31.6609	24.47936667
Ino80d	chr1:63094374-63160841	31.652	30.9714
Ppm1d	chr11:85124755-85160573	31.64593333	36.02426667
Acaa2	chr18:74938865-74965861	31.6408	33.74033333
Kcnq4	chr4:120370077-120419781	31.6334	28.6125
Ube3b	chr5:114830615-114871175	31.628	22.9821
Crcp	chr5:130505175-130536653	31.61366667	23.73663333
Xrcc4	chr13:89988518-90229213	31.6132	28.2334
BC031353	chr9:74800859-74880275	31.60923333	56.72813333
Ei24	chr9:36586737-36604978	31.6021	44.31613333
Stx19	chr16:62814501-62822548	31.57926667	11.68242
Prkag2	chr5:24368552-24606460	31.56763333	19.26213333
Rdh12	chr12:80309900-80323648	31.5405	17.98503333
Fam110c	chr12:31758832-31764805	31.5388	14.36534667
B230219D22Rik	chr13:55794484-55804861	31.51626667	26.801
Stom	chr2:35169509-35192529	31.50433333	12.52623667
Egln3	chr12:55279967-55304861	31.50046667	84.8848
Mxd1	chr6:86597038-86619153	31.49486667	23.50176667
Zfp326	chr5:106305586-106344837	31.47956667	39.02606667
Pbx1	chr1:170049494-170362389	31.47086667	68.125
Hipk2	chr6:38647838-38826189	31.46373333	43.0189
Scd2	chr19:44368165-44381352	31.46336667	59.24446667
Skil	chr3:30993982-31021499	31.4626	41.80183333
Fdft1	chr14:63763987-63796630	31.4352	73.23946667
Tgoln1	chr6:72558414-72566994	31.42373333	36.82596667
Srp68	chr11:116106479-116135531	31.4233	25.4479
Bmp7	chr2:172695188-172765794	31.4201	81.20473333
Tspyl2	chrX:148771394-148777027	31.41966667	27.93233333
Srsf10	chr4:135412006-135425814	31.4111	38.04803333
Tom1l2	chr11:60040215-60166407	31.41026667	29.59596667
Ralgapa2	chr2:146067034-146337740	31.4087	5.555083333
Pawr	chr10:107769244-107851447	31.4074	17.16
Tubgcp3	chr8:12614276-12672100	31.3794	30.22686667
Dynll2	chr11:87793026-87811800	31.36883333	39.7366

Hgsnat	chr8:27054930-27087216	31.36583333	22.1068
Ndufs3	chr2:90734792-90744878	31.36373333	37.8868
Mcmbp	chr7:135839972-135883943	31.34376667	23.81583333
	6-Sep chr9:25060039-25116156	31.30723333	31.99073333
Tas2r114	chr6:131639151-131640081	31.3012	0
Arl3	chr19:46605598-46647575	31.29786667	25.44338
Sqle	chr15:59146646-59162748	31.28526667	49.6486
Tmem167b	chr3:108359342-108365384	31.27946667	27.82036667
Adss	chr1:179693308-179726640	31.27246667	48.5836
Akap11	chr14:78892052-78936667	31.25083333	28.33756667
Samd4b	chr7:29184540-29221210	31.2371	35.34653333
Fbxw2	chr2:34659883-34681755	31.22916667	27.38206667
Rnf128	chrX:136097878-136207684	31.22733333	19.78196667
Sdhb	chr4:140517185-140535107	31.22286667	30.90843333
Pax1	chr2:147190729-147200784	31.20726667	37.39573333
Rnf114	chr2:167318144-167341666	31.19563333	49.50446667
Tspan31	chr10:126504345-126507317	31.1822	59.4663
Srpk1	chr17:28726536-28759399	31.15853333	59.14306667
Nsun3	chr16:62734677-62786542	31.15386667	9.927673333
Smarce1	chr11:99070361-99092331	31.1499	21.9445
Cyld	chr8:91220926-91275844	31.14986667	19.13016667
Fxyd2	chr9:45207791-45218361	31.11383333	5.261563333
Pde2a	chr7:108570204-108661343	31.09973333	11.17533667
0610007N19Rik	chr15:32170322-32174417	31.0908	3.90935
Gigyf2	chr1:89223572-89347385	31.0888	41.38383333
Prkacb	chr3:146392542-146475910	31.0693	18.31269
Odz2	chr11:35820170-36757745	31.06166667	13.31320667
1600012H06Rik	chr17:15080188-15082944	31.06013333	34.51243333
Gosr2	chr11:103538162-103559024	31.05886667	49.84066667
Dcaf8	chr1:174078145-174126524	31.05513333	26.99813333
Sp3	chr2:72774489-72818503	31.05083333	31.84403333
Macf1	chr4:123026875-123361603	31.048	38.30506667
Dalrd3	chr9:108472222-108475102	31.04566667	18.36343333
2310009A05Rik	chr9:72887524-72890582	31.02696667	42.0812
Gbas	chr5:130230949-130264201	31.01866667	25.48213333
Slc50a1	chr3:89072167-89074492	31.00806667	24.3647
Fuca1	chr4:135476640-135496215	30.9985	34.02623333
Kctd3	chr1:190794976-190831719	30.992	28.93103333
Casc3	chr11:98671121-98695121	30.9757	32.03146667
Rdx	chr9:51855254-51896843	30.97053333	38.7211
Ints4	chr7:104629465-104689908	30.96443333	34.20863333
Acbd3	chr1:182656173-182684335	30.96183333	37.96213333
Usp19	chr9:108393006-108404668	30.92126667	31.70633333
Nipa2	chr7:63186635-63217863	30.90796667	35.86863333
Rnf34	chr5:123300196-123318954	30.90576667	29.19353333
Cse1l	chr2:166731595-166771889	30.90293333	37.98676667
Ykt6	chr11:5855760-5867783	30.90263333	33.47877667
Pfkip	chr13:6579119-6647970	30.8688	5.4076
Ubl4	chrX:71611056-71613887	30.86016667	30.0997
3010026O09Rik	chr11:49988352-50013617	30.8538	27.67753333
Gnb2	chr5:137969356-137974457	30.84546667	31.17073333
Clptm1	chr7:20216928-20250379	30.84416667	36.7557

Ppdpf	chr2:180922047-180923209	30.83333333	45.38453333
Pcnp	chr16:56015620-56029830	30.7776	34.81836667
Pak1ip1	chr13:41096378-41108402	30.76986667	18.63947667
Ing4	chr6:124989865-124999282	30.76833333	16.5812
Serpinb3a	chr1:108942163-108948880	30.75613333	98.24563333
Nudc	chr4:133088456-133101942	30.74813333	39.91146667
Pacsin2	chr15:83206036-83295036	30.7459	21.61113333
Insig1	chr5:28397951-28405202	30.73867667	58.9821
Snrpd1	chr18:10617793-10628228	30.7226	17.93482
Gm5069	chr1:182257099-182260680	30.70526667	27.93013333
Lgals3bp	chr11:118254065-118263245	30.70436667	34.77866667
Lrp12	chr15:39702148-39775303	30.6986	31.61086667
Smek2	chr11:29072906-29120797	30.6895	29.11786667
Gba	chr3:89006849-89012603	30.67666667	37.21633333
Mapk6	chr9:75234707-75257821	30.63206667	50.26433333
Anapc4	chr5:53225373-53257973	30.6164	17.12013333
Ptpa	chr2:130276013-130380036	30.61263333	15.42454
Uspl1	chr5:149996135-150027010	30.60366667	10.43213
Exoc1	chr5:76958347-76999310	30.59756667	19.19363333
Mark3	chr12:112812720-112894438	30.5919	26.23656667
Psmc3	chr2:90894172-90899595	30.57843333	32.01733333
Fam120b	chr17:15533165-15570545	30.57143333	20.76553333
Phf12	chr11:77796317-77844037	30.57056667	27.02023333
Memo1	chr17:74600039-74694203	30.55556667	23.13313333
Rab11fip1	chr8:28249244-28285118	30.55286667	37.0252
Sin3a	chr9:56919846-56976175	30.54163333	36.68976667
Fam98b	chr2:117075474-117097276	30.52266667	38.2779
Tank	chr2:61416642-61492226	30.51483333	34.5643
Fh1	chr1:177531508-177555766	30.4994	27.49043333
Nmt2	chr2:3201559-3243641	30.4915	18.09787
Syncrip	chr9:88344575-88377235	30.4838	32.44176667
LOC100504703	chr10:126507536-126508157	30.48135	7.54206
Emg1	chr6:124654387-124662196	30.47913333	15.92693333
0910001L09Rik	chr5:138696709-138700623	30.46486667	60.1077
Slc24a4	chr12:103367628-103504959	30.45146667	7.84035
Mrps33	chr6:39751806-39760935	30.43323333	57.40043333
Pygb	chr2:150612531-150657484	30.41723333	28.82443333
Mob4	chr1:55188088-55211743	30.41466667	44.97723333
Taok1	chr11:77342663-77421317	30.40926667	36.3406
2310044G17Rik	chr12:88287992-88306314	30.39963333	27.07623333
Mrpl20	chr4:155177726-155182938	30.39533333	12.81894
Rufy1	chr11:50202804-50244613	30.38826667	20.7552
Cog3	chr14:76102157-76154300	30.3828	19.16446667
Fkbp2	chr19:7052228-7054951	30.382	83.6682
Oxsr1	chr9:119147550-119231545	30.36326667	32.05766667
Lonp2	chr8:89147941-89240535	30.35633333	40.70986667
R74862	chr7:150218525-150239273	30.3379	24.40296667
Wdr74	chr19:8810328-8815114	30.32025333	23.07473333
Strap	chr6:137683602-137700451	30.31656667	35.04196667
Acadl	chr1:66877426-66909841	30.31276667	17.59766667
Psm2	chr16:20651724-20663487	30.30713333	28.64886667
Pik3r3	chr4:115894518-115975661	30.30403333	51.54313333

Asph	chr4:9376231-9596309	30.28583333	35.2417
Ralgapb	chr2:158235588-158324989	30.27453333	29.36016667
Snrpa	chr7:27972024-27981290	30.26693333	57.92673333
Mfap1a	chr2:121318416-121332392	30.26693333	26.7391
0610009D07Rik	chr12:4824413-4834465	30.24483333	18.23469667
2610507B11Rik	chr11:78075255-78104127	30.2041	38.00426667
Dram2	chr3:106350744-106377763	30.19593333	18.85983333
Jmjd8	chr17:25965987-25968788	30.18463333	28.44303333
Actn1	chr12:81268528-81361358	30.179	42.86663333
Ilf3	chr9:21172446-21209805	30.17596667	27.71136667
Zfhx4	chr3:5218553-5415855	30.17066667	2.336056033
Skiv2l2	chr13:113657987-113717588	30.16556667	19.10753333
Ppm1a	chr12:73862197-73895927	30.1521	30.93466667
Izumo4	chr10:80165437-80168127	30.1405	23.1818
Snrnp27	chr6:86625162-86634485	30.13023333	42.187
Lass5	chr15:99566022-99602946	30.08143333	42.58336667
Chic2	chr5:75402448-75440651	30.06616667	13.25408
Rnf19b	chr4:128735514-128761770	30.05333333	13.19833333
Smu1	chr4:40682681-40704918	30.0452	21.8702
Ralgapa1	chr12:56703885-56922154	30.04363333	34.4876
Eif4enif1	chr11:3102355-3144591	30.04203333	29.76246667
4921513D23Rik	chr16:14109258-14159367	30.03993333	28.18446667
Psme2	chr14:56206276-56209938	30.039	18.6319
Tbrg1	chr9:37456766-37464897	30.00186667	17.5303
Pmm2	chr16:8637799-8657617	29.9881	9.265326667
Gtf2a2	chr9:69860356-69870654	29.98653333	43.47746667
Dvl3	chr16:20517136-20532260	29.97526667	51.74933333
Ano6	chr15:95621273-95805903	29.97223333	10.94439667
Tex9	chr9:72305861-72339766	29.95343333	23.13903333
S100pbp	chr4:128828068-128866726	29.94856667	8.864246667
Myo6	chr9:80012840-80159536	29.93503333	25.99636667
8430427H17Rik	chr2:153233196-153355707	29.93326667	21.10893333
Snx7	chr3:117484414-117571854	29.9315	16.71480333
Sypl	chr12:33638809-33664367	29.92623333	41.9049
Mprrip	chr11:59475996-59594362	29.92543333	16.47143333
1810031K17Rik	chr1:75131788-75138942	29.90946667	21.275
Sun1	chr5:139676590-139725793	29.90626667	32.4564
Tmem208	chr8:107850263-107852957	29.895	38.5736
Ptplad1	chr9:64834789-64869524	29.8898	38.42136667
Fyco1	chr9:123698627-123761020	29.88533333	35.2347
Rsb1l1	chr5:20398841-20457640	29.8804	14.36919333
Nipsnap3b	chr4:53024795-53034931	29.87213333	19.6118
Fam192a	chr8:97098840-97125626	29.86446667	29.26953333
Ranbp1	chr16:18240071-18248787	29.85926667	36.7809
Eps8l2	chr7:148524900-148548915	29.85146667	71.07333333
Cops2	chr2:125656039-125684754	29.81803333	29.0541
Aig1	chr10:13372514-13588636	29.8158	31.49363333
Mecp2	chrX:71272160-71330975	29.8119	44.40696667
Bbs9	chr9:22280158-22692724	29.80723333	18.9674
Aup1	chr6:83004646-83007676	29.79873333	19.37973333
Srsf4	chr4:131429553-131457640	29.79296667	22.56182667
Wfdc2	chr2:164388215-164394006	29.77590333	136.5561333

Tmem30a	chr9:79616747-79641237	29.76386667	36.67473333
Cdc42bpb	chr12:112531182-112615929	29.76313333	21.6242
Skap2	chr6:51809163-51962548	29.76073333	33.07003333
Rab5c	chr11:100576579-100599444	29.751	21.1391
Bzw1	chr1:58449979-58463392	29.7317	63.2594
Snd1	chr6:28430347-28838832	29.71876667	16.00803
Zfp292	chr4:34750358-34830197	29.71543333	30.48843333
Upf3b	chrX:34631828-34650317	29.70516667	24.88883333
Trim28	chr7:13609500-13616381	29.69586667	32.85516667
Mapkapk5	chr5:121975059-121995901	29.68686667	43.1513
Fam100a	chr16:4874778-4879851	29.68676667	22.28073333
Naa35	chr13:59686693-59736142	29.6813	41.4419
Gtf2e2	chr8:34842385-34887645	29.67246667	31.61643333
Ywhag	chr5:136384248-136410511	29.66866667	40.66886667
Prpf38a	chr4:108237471-108251941	29.6304	21.2094
Ubn1	chr16:5050160-5086378	29.58923333	35.18663333
Smarcd2	chr11:106124484-106134286	29.56276667	28.4877
2410015M20Rik	chr17:56746874-56749194	29.5478	62.0759
Lrp6	chr6:134396495-134516931	29.5449	23.01403333
Stxbp3a	chr3:108596097-108643420	29.5423	26.39636667
Wdr47	chr3:108394195-108448637	29.5391	15.17473333
Prpf40a	chr2:52997508-53050221	29.53526667	32.4583
2900010M23Rik	chr17:27259609-27270836	29.53436667	27.63589
Krt10	chr11:99246568-99250678	29.5267	16.61703333
Usp36	chr11:118120966-118151558	29.5129	23.84673333
Tmem51	chr4:141586907-141640219	29.51096667	20.89928667
Errfi1	chr4:150229199-150242989	29.50456667	41.53073333
Mff	chr1:82721492-82748964	29.4817	40.12403333
Crtc2	chr3:90058202-90068047	29.474	20.52096667
Map4k4	chr1:39957757-40083155	29.4739	29.86386667
9930021J03Rik	chr19:29788891-29880499	29.44813333	36.40496667
	7-Mar chr6:116288140-116359558	29.43796667	31.29886667
Ppp2cb	chr8:34710092-34730276	29.43523333	39.93163333
Wasl	chr6:24563809-24614995	29.42916667	34.98846667
Dnajb4	chr3:151846918-151873263	29.42336667	38.20853333
Med14	chrX:12252496-12339099	29.41136667	36.97973333
Pls1	chr9:95653060-95745698	29.40646667	17.93693333
Tmem181b-ps	chr17:6438149-6450142	29.40403333	45.37316667
Nptn	chr9:58430046-58500686	29.40203333	61.6852
Uqcrc1	chr9:108838660-108851686	29.39736667	46.7859
Rragc	chr4:123594675-123614240	29.3922	32.6817
Copg	chr6:87837933-87863588	29.3605	27.9358
Efh2	chr4:141414056-141430835	29.35546667	21.83
Sirt2	chr7:29551770-29573684	29.35356667	67.62893333
Ssna1	chr2:25126558-25127938	29.3488	20.86563333
Trio	chr15:27660403-27955603	29.34426667	30.64403333
Mrpl18	chr17:13104220-13108957	29.3416	17.26726667
Slc39a9	chr12:81745201-81784329	29.34153333	23.60826667
Crip3	chr17:46565890-46568720	29.3301	6.1188
Aga	chr8:54597055-54608776	29.32193333	32.21393333
Chmp2b	chr16:65539377-65562942	29.31716667	24.36866667
Jmj6	chr11:116698745-116704763	29.31636667	10.47472667

Kif3a	chr11:53380880-53417746	29.30376667	22.05423333
Prmt2	chr10:75669966-75700610	29.28743333	9.263626667
2510002D24Rik	chr16:18836672-18840206	29.2731	8.314543333
Clk2	chr3:88968726-88981009	29.2639	21.12933333
Meaf6	chr4:124762390-124787133	29.2623	38.71103333
Cnot3	chr7:3596870-3612711	29.24573333	26.15843333
Gm4861	chr3:137213008-137215586	29.24546667	5.660146667
Tpd52l2	chr2:181231957-181251462	29.23936667	22.2878
Immt	chr6:71781313-71825260	29.21196667	38.54513333
Otud5	chrX:7418956-7451984	29.20936667	30.48796667
Zbtb10	chr3:9250566-9285332	29.18946667	21.92616667
Mef2a	chr7:74378716-74517744	29.1889	33.05933333
Rgnf	chr13:98668549-98976120	29.1717	5.44139
Ppm1h	chr10:122115817-122382849	29.15203333	12.71462333
Prr15l	chr11:96790637-96796961	29.13353333	25.54723333
Fbxw11	chr11:32542874-32646814	29.12806667	29.035
Hnrpll	chr17:80428826-80461674	29.12503333	30.1442
Scaf8	chr17:3114971-3198859	29.09036667	31.31113333
Ly6g6f	chr17:35217482-35222540	29.06803333	6.321356667
Rbm27	chr18:42435006-42501194	29.06203333	30.33156667
Gtf2h5	chr17:6079827-6085485	29.03186667	31.97746667
Llgl2	chr11:115685371-115717094	29.02443333	16.3598
Cdc42se1	chr3:95032701-95040331	29.02356667	36.86613333
Hpgd	chr8:58773348-58799843	29.0198	19.88316067
Rabac1	chr7:25754768-25757747	29.01893333	39.4215
Manf	chr9:106789745-106794269	28.9952	37.26882333
Zfp809	chr9:22030146-22047798	28.9939	22.92279667
Gnpda2	chr5:69966240-69983524	28.9903	24.7602
Pank1	chr19:34885383-34953945	28.9894	25.8288
Gusb	chr5:130464890-130478698	28.98736667	16.85666667
Wsb2	chr5:117807313-117828598	28.95293333	30.99616667
Ddx24	chr12:104646185-104664077	28.9074	19.91173333
Ythdf3	chr3:16083182-16117038	28.90723333	24.5748
Anapc5	chr5:123237469-123271348	28.9059	53.75266667
Vps13a	chr19:16689855-16855423	28.90313333	25.84776667
Sipa1l3	chr7:30105396-30290479	28.9025	28.92356667
Mier3	chr13:112476385-112508802	28.89843333	21.22106667
Mrps28	chr3:8802145-8923857	28.89646667	31.05563333
Neo1	chr9:58722486-58884248	28.89406667	26.70383333
Scarna8	chr4:86232356-86232474	28.89356667	0
Cct8	chr16:87483569-87496114	28.88816667	43.2269
Slc9a8	chr2:167247220-167302498	28.88606667	15.76963333
Dcakd	chr11:102855369-102878461	28.85926667	31.83566667
Cnst	chr1:181476659-181557604	28.8567	22.60703333
AA465934	chr11:83105200-83108139	28.8476	69.21218333
U2af2	chr7:5013744-5031547	28.8261	30.02143333
Ddx46	chr13:55736387-55782617	28.82486667	26.95786667
Actr8	chr14:30791522-30806407	28.81243333	15.14356667
Dlg1	chr16:31663528-31873442	28.80593333	28.05986667
5730419I09Rik	chr6:142959439-143048627	28.80146667	18.54165333
Rnf220	chr4:116944068-117169520	28.7968	20.5316
Prr15	chr6:54277005-54280194	28.7966	10.94604333

Clk3	chr9:57598517-57613667	28.78523333	25.81086667
Zhx1	chr15:57878557-57908044	28.77693333	26.96303333
Mettl7a1	chr15:100135247-100144779	28.77363333	31.3356
Isyna1	chr8:73118379-73121189	28.77286667	37.92013333
Tmed10	chr12:86681563-86715667	28.7598	33.9457
Cachd1	chr4:100449283-100676353	28.74923333	11.37919
Dars	chr1:130260283-130313993	28.7449	25.96106667
Akap8	chr17:32440620-32458098	28.7425	39.6491
Uba2	chr7:34925715-34953548	28.7285	29.3946
Rpl21	chr5:147644465-147648608	28.72686667	35.43363333
Myh9	chr15:77591018-77672545	28.7157	29.64466667
Nav3	chr10:109120494-109437275	28.70393333	0.283769367
Gphn	chr12:79327641-79785756	28.70136667	26.00016667
Snora64	chr17:24857733-24857850	28.6947	43.43103333
Tmod3	chr9:75345590-75407464	28.69456667	29.52416667
D4Erttd22e	chr4:140668929-140695711	28.693	17.30312
Ppp2r1b	chr9:50665039-50702334	28.68123333	38.5905
Kif1a	chr1:94912032-94998442	28.6786	42.0091
Cxcl14	chr13:56390005-56397912	28.67196667	7.707383333
Psmb3	chr11:97564747-97574814	28.66143333	28.9027
Dusp22	chr13:30751964-30803094	28.64793333	45.8488
Gemin7	chr7:20150297-20158692	28.64456667	7.786633333
D8Erttd738e	chr8:86770133-86773660	28.64076667	65.1582
Minos1	chr4:138657728-138687028	28.6403	35.58356667
Snx17	chr5:31495676-31501273	28.6372	17.39813333
Rnasel	chr1:155596555-155611351	28.6319	3.084461
Pnkf	chr1:74331607-74400266	28.62723333	39.22876667
Trmt2b	chrX:130757493-130811523	28.6222	21.26336667
Atp2b1	chr10:98377785-98488777	28.6004	18.6303
Pja1	chrX:96661072-96666074	28.58646667	31.15576667
Osbpl2	chr2:179854070-179897385	28.5864	27.8475
Kdm4c	chr4:73888400-74051768	28.56736667	17.51676667
Pacs2	chr12:114252718-114312612	28.5606	39.588
Sdf4	chr4:155367022-155387719	28.53106667	24.75296667
Znhit1	chr5:137458070-137463752	28.5169	22.84883667
Gars	chr6:54987994-55029498	28.51586667	24.48483333
Uckl1	chr2:181303858-181316678	28.48733333	19.12806667
Txnrd1	chr10:82296695-82360469	28.4789	37.08653333
Hist1h2bm	chr13:21813966-21814347	28.47123333	23.24498
2210013O21Rik	chrX:150158096-150175839	28.46833333	43.41156667
AI413582	chr17:27700713-27702672	28.4661	33.04603333
B9d1	chr11:61318673-61326429	28.46523333	33.7027
Gbe1	chr16:70314331-70569961	28.45506667	26.94663333
D230025D16Rik	chr8:107749087-107776951	28.4443	23.1409
Fam129b	chr2:32731653-32780773	28.42523333	38.47806667
Pisd-ps3	chr11:3024029-3031945	28.42216667	17.92328133
Bod1l	chr5:42178777-42235554	28.4036	21.37256667
Fam54b	chr4:134081469-134091302	28.37686667	22.87706667
Rad23a	chr8:87358550-87364540	28.37226667	19.37686667
Srp9	chr1:184054867-184062546	28.36506667	19.8395
Fndc3a	chr14:72937759-73109810	28.36346667	36.65566667
Apoa1bp	chr3:87860444-87862417	28.36103333	24.70488667

Kat5	chr19:5603013-5610094	28.35233333	19.0717
1810009A15Rik	chr19:8963392-8965230	28.3395	9.767596667
Sik2	chr9:50700905-50817178	28.33096667	35.43703333
Peli1	chr11:20991326-21050330	28.30896667	36.87546667
Phf6	chrX:50265442-50310120	28.30666667	20.2343
Dpf2	chr19:5897134-5912866	28.2995	41.18313333
Zfp740	chr15:102038697-102046032	28.2844	15.2895
Gtdc1	chr2:44419941-44717142	28.26346667	16.65998667
Abca13	chr11:9091944-9584262	28.25434667	16.1955
Orc3	chr4:34514029-34562191	28.25106667	21.9731
Psma5	chr3:108059843-108082870	28.25046667	21.44266667
Irf7	chr7:148449081-148452323	28.24823333	4.341893333
Rnf130	chr11:49838832-49918235	28.23973333	16.20421
1700019D03Rik	chr1:52981970-53009684	28.228	20.24686667
Rraga	chr4:86221576-86223187	28.2247	50.8892
Phf5a	chr15:81694945-81702322	28.19213333	21.0694
Tars	chr15:11313417-11329413	28.1793	14.9771
Uqcrfs1	chr13:30632180-30637185	28.1695	47.11946667
Ppp1r2	chr16:31251626-31275363	28.16723333	23.65319667
Arcp5l	chr2:38863658-38871392	28.1536	40.95936667
Zfp280d	chr9:72122705-72211578	28.15023333	47.36703333
Clcc1	chr3:108456830-108481758	28.14953333	22.9805
Sec11c	chr18:65960231-65977311	28.14526667	30.5893
Rc3h2	chr2:37225590-37278423	28.128	19.31953333
Pcyt1b	chrX:90900201-90995287	28.10853333	17.96243333
Slc20a1	chr2:129024508-129037348	28.0976	19.35032667
Cpsf3	chr12:21292157-21320917	28.0894	18.59513333
Gltpd1	chr4:155238831-155243549	28.08223333	34.33033333
Gcap14	chr14:37688121-37781950	28.0677	20.05296667
Mlec	chr5:115592989-115608185	28.06056667	41.04736667
Abhd5	chr9:122260733-122290641	28.0527	16.69143333
Vps13c	chr9:67688202-67843441	28.0403	18.8829
Rdbp	chr17:34987335-34993317	28.03986667	5.802659333
Psmc13	chr7:148068292-148084541	28.0226	30.45666667
Polb	chr8:23738590-23763909	28.01976667	34.37673333
Fam114a2	chr11:57296491-57332146	28.01336667	12.88166
Egln1	chr8:127432486-127473154	27.99346667	27.24386667
Ftsjd2	chr17:29797545-29840304	27.97763333	17.87836333
Stag2	chrX:39502588-39630352	27.9768	28.89473333
5430417L22Rik	chr2:118571497-118574543	27.97243333	57.83966667
C030044B11Rik	chr13:49063480-49065274	27.96473333	31.27382667
BC003965	chr17:25321505-25324607	27.9578	16.78941333
Ankrd10	chr8:11611582-11635754	27.94103333	28.5302
2010107H07Rik	chr14:31937690-31942116	27.89576667	23.54093333
Ext2	chr2:93535787-93662725	27.89251	13.15762333
Vasp	chr7:19842278-19857203	27.89076667	29.48293333
Mllt6	chr11:97524725-97546772	27.88783333	18.61693333
BC013529	chr10:7487744-7500715	27.86633333	35.28926667
Crot	chr5:8966047-8997146	27.8644	34.99593333
Klhdc10	chr6:30351908-30405174	27.8634	18.1868
Cdkl2	chr5:92435100-92472044	27.8586	20.77924
Las1l	chrX:93130651-93152298	27.8583	22.26964333

Socs2	chr10:94874123-94879491	27.835	27.36916667
Ube2g1	chr11:72420762-72499983	27.82106667	31.35876667
Slc12a2	chr18:58038331-58106475	27.80536667	22.3366
Ap2m1	chr16:20535576-20544126	27.80126667	24.3428
Phactr4	chr4:131911838-131978361	27.80066667	29.7728
Camk2b	chr11:5869668-5965751	27.79566667	49.13343333
5730508B09Rik	chr3:127572605-127599241	27.79403333	16.25823
Ntan1	chr16:13819369-13835543	27.79093333	38.40956667
Tshz2	chr2:169459145-169714004	27.789	45.34883333
Ube4b	chr4:148702524-148800740	27.76863333	30.6711
Tppp	chr13:74146866-74173201	27.7665	31.45436667
C80913	chr7:38745010-38804571	27.75773333	15.43234333
Dpcd	chr19:45635104-45652777	27.7553	10.79605667
Hecw1	chr13:14318704-14615493	27.75106667	13.37711667
A730020E08Rik	chr6:61125597-61130804	27.73756667	0.139108333
Syvn1	chr19:6046575-6053718	27.72559667	33.82826667
Usp25	chr16:77014313-77117025	27.72286667	45.53813333
Usp48	chr4:137150103-137214452	27.70186667	22.61053333
2610008E11Rik	chr10:78527118-78560345	27.69736667	18.72503333
Snx25	chr8:47118614-47209500	27.69046667	21.764
Chac1	chr2:119176977-119180062	27.6621	0.520741267
Mrpl32	chr13:14702567-14705304	27.65176667	23.73543333
Akap12	chr10:5987069-6080212	27.64726667	13.2567
Ccdc41	chr10:94151534-94253081	27.62673333	14.58730333
Exoc6b	chr6:84568479-85019507	27.6194	27.76693333
Rpn1	chr6:88034466-88055298	27.614	31.60693333
Cep350	chr1:157692093-157820385	27.61326667	22.57103333
Eif2ak1	chr5:144578660-144663586	27.59006667	29.8352
Sp1	chr15:102236746-102266835	27.5791	34.0402
Ap3d1	chr10:80169722-80204956	27.57466667	27.24663333
Cnot4	chr6:34972064-35083737	27.57363333	34.44376667
D5Erttd579e	chr5:36943137-37087208	27.56666667	20.0418
Gabarapl1	chr6:129483209-129492349	27.56243333	40.10103333
Rbbp8	chr18:11791784-11901716	27.5561	18.8586
Lman2	chr13:55445193-55464144	27.5338	43.33703333
Arid4a	chr12:72116953-72200338	27.5291	16.74680333
Tcerg1	chr18:42671140-42735439	27.52746667	30.0865
Nr1d1	chr11:98629248-98636556	27.52243333	32.3807
Pum1	chr4:130219273-130337479	27.50866667	35.8886
Tsg101	chr7:54144396-54175300	27.5053	15.88916667
Sdc1	chr12:8778201-8800493	27.49276667	29.82356667
Cct3	chr3:88101037-88125689	27.48546667	28.35356667
Pcgf3	chr5:108890350-108932118	27.4821	13.33461333
Lamtor3	chr3:137581518-137591726	27.4734	20.7786
Acss1	chr2:150443846-150493976	27.4679	5.005973333
Eif3d	chr15:77789427-77801254	27.46153333	37.83896667
Eif2a	chr3:58329742-58361423	27.44663333	55.41463333
Rps6kb2	chr19:4156976-4163245	27.44193333	16.29276667
Ddx42	chr11:106078239-106110454	27.41043333	26.22586667
Arhgef5	chr6:43215642-43239319	27.40306667	26.24013333
Got1	chr19:43574242-43599095	27.39966667	10.93938
Ate1	chr7:137535007-137663475	27.38616667	17.0895

Zfp187	chr13:21534043-21545596	27.3799	27.1733
Mapk14	chr17:28828286-28885350	27.36913333	34.98216667
Bak1	chr17:27156756-27165571	27.367	30.03706667
1300014I06Rik	chr13:34719709-34744550	27.3376	45.66463333
Pcdhga10	chr18:37906841-38001524	27.3319	6.34359
Unc13b	chr4:43071855-43277759	27.32086667	29.40893333
Rcor1	chr12:112278008-112351597	27.26626667	30.6237
Sez6l2	chr7:134094048-134114120	27.2567	12.3141
Hdac5	chr11:102057060-102091486	27.25583333	10.99038
Isca1	chr13:59856775-59871150	27.25436667	19.14596667
Gnai3	chr3:107910216-107949032	27.25354	45.37323333
Larp7	chr3:127239631-127256267	27.22836667	20.08733333
Atp5f1	chr3:105745780-105763166	27.21263333	29.3834
Cacybp	chr1:162132497-162143023	27.2123	32.93126667
Ostc	chr3:130398834-130412362	27.2101	30.03723333
Ufsp2	chr8:47060892-47082213	27.20603333	10.69966333
Plcb4	chr2:135567565-135838804	27.1947	21.90783333
Hnrnpd	chr5:100384954-100407957	27.18093333	22.96016667
Srp72	chr5:77403725-77428960	27.16286667	46.83576667
Pcmt1	chr10:7350033-7383382	27.15466667	12.06283333
Mgst2	chr3:51465114-51486597	27.14703333	31.91656667
Uhmk1	chr1:172129386-172145524	27.1413	29.90066667
Atp11b	chr3:35653059-35755198	27.1401	32.0358
Suz12	chr11:79806607-79847625	27.13673333	33.34403333
Mta3	chr17:84105502-84214245	27.12673333	54.6892
Rab3b	chr4:108551674-108615929	27.12286667	6.110153333
Ccdc124	chr8:73392125-73397389	27.122	33.4405
Tm9sf3	chr19:41285331-41338494	27.1187	33.59063333
Med20	chr17:47748544-47761367	27.1099	13.7227
Dock7	chr4:98603355-98787606	27.09913333	17.76052
Nars2	chr7:104100036-104213267	27.08953333	14.9057
Anxa7	chr14:21274482-21299355	27.0873	22.2059
Cbx3	chr6:51420614-51433703	27.0794	65.96683333
Slc22a23	chr13:34271026-34437051	27.07693333	19.30763333
Gtpbp1	chr15:79521325-79551909	27.07296667	19.85600667
Hat1	chr2:71227316-71279679	27.07113333	29.89886667
Pgm1	chr5:64484188-64519397	27.06736667	29.9692
Limd1	chr9:123387818-123430670	27.05436667	34.302
Mrpl36	chr13:73468456-73469626	27.0534	37.2128
Pfdn1	chr18:36563332-36614149	27.04853333	17.72856667
Erlin2	chr8:28134270-28149907	27.04746667	32.9518
Rpf1	chr3:146169309-146184387	27.04746667	25.43443333
Fbxl14	chr6:119429685-119433904	27.03936667	16.56563333
Cyhr1	chr15:76476196-76490538	27.03003333	38.22466667
Pstpip2	chr18:78033288-78121618	27.02816667	44.4755
Epb4.1l4b	chr4:57074597-57156028	27.01173333	46.53676667
Fdx1	chr9:51751411-51771638	26.99706667	18.38742667
Ddrgk1	chr2:130479818-130490381	26.99423333	24.0973
Tas2r123	chr6:132797159-132798161	26.99283333	3.387
Snora34	chr15:98350147-98350265	26.99093333	22.2648
2310021P13Rik	chr14:21526773-21542841	26.98856667	27.2756
Tesc	chr5:118477832-118511879	26.9881	29.13496667

A330102I10Rik	chr13:29106282-29132205	26.98056667	15.22116333
Mcf2l	chr8:12915892-13020509	26.97983333	33.02413333
Cyth2	chr7:53062006-53069686	26.9744	15.65852333
Fam116a	chr14:27399035-27451585	26.97373333	27.93843333
Cenpb	chr2:131003024-131005748	26.9734	24.3576
Trim24	chr6:37820810-37916289	26.9698	12.62761667
2900097C17Rik	chr2:156213798-156218715	26.96636667	45.80386667
Stk25	chr1:95517327-95532304	26.94496667	26.21903333
Ola1	chr2:72930857-73052504	26.9445	65.9064
Usp33	chr3:152009441-152056578	26.93356667	33.5821
Atp6v0a1	chr11:100870765-100925031	26.8992	36.44013333
Gabpb2	chr3:94985689-95021864	26.88736667	19.00488333
Btbd1	chr7:88936959-88974317	26.88296667	26.9353
Gnptg	chr17:25371261-25377061	26.87696667	59.44316667
Spn	chr4:141023804-141094512	26.87643333	22.9845
Rprd1b	chr2:157854529-157903056	26.87053333	16.6128
Neur1a	chr19:47253309-47333931	26.86563333	22.54666667
Gpr115	chr17:42793839-42829233	26.85476667	2.28299
Hdac8	chrX:99479978-99700487	26.84966667	9.135813333
Med6	chr12:82674550-82695945	26.8469	13.27331
Cpne3	chr4:19446398-19497251	26.83583333	27.24186667
Mid1ip1	chrX:10294490-10296828	26.82593333	18.08105667
Ddx47	chr6:134961629-134973794	26.82323333	42.25703333
Snhg6	chr1:9932105-9934199	26.79586667	17.93865333
Nagk	chr6:83745050-83752550	26.7926	24.98563333
Dcaf11	chr14:56178865-56188902	26.78046667	20.44096667
Gm15800	chr5:121670227-121818586	26.7786	21.6768
Fam32a	chr8:74743628-74747674	26.7785	46.96353333
Smg1	chr7:125274825-125387151	26.7767	25.4225
Micall1	chr15:78939412-78967331	26.75556667	27.1852
1810014F10Rik	chr7:147285368-147288305	26.75416667	4.678760667
Kdm6b	chr11:69212019-69227177	26.74543333	18.75923333
Dsc1	chr18:20243203-20273274	26.7257	67.6028
Yipf3	chr17:46385028-46389486	26.7222	35.9749
Comt	chr16:18406974-18426809	26.72173333	46.1136
Net1	chr13:3881808-3917466	26.7118	49.3778
Commd3	chr2:18594088-18597843	26.71136667	26.91796667
Tmem111	chr6:113464880-113481632	26.70396667	31.24276667
0610007P22Rik	chr17:25377114-25379744	26.68406667	32.7917
Gtf2b	chr3:142428210-142446569	26.67346667	40.88296667
Nxph4	chr10:126962528-126971615	26.6723	16.25586667
Rab1b	chr19:5099206-5106996	26.6682	29.34736667
Sft2d2	chr1:167104471-167124564	26.66656667	20.6085
Cdc37l1	chr19:29064983-29092059	26.65783333	37.00513333
Sphk2	chr7:52964832-52973372	26.64633333	12.50624667
Atp11c	chrX:57476466-57657156	26.6166	4.59446
Pglyrp1	chr7:19470038-19475787	26.61323333	60.03243333
1810022K09Rik	chr3:14606288-14611256	26.6107	13.39369
Tmem128	chr5:38651613-38660857	26.59033333	14.07778667
Eif3m	chr2:104839813-104857184	26.57886667	45.98246667
9330151L19Rik	chr12:70298197-70300855	26.57413333	7.20869
Tpp1	chr7:112893360-112900721	26.56453333	49.5471

Sccpdh	chr1:181598361-181617315	26.5537	24.30983333
Chmp3	chr6:71493847-71531568	26.55333333	17.18759667
Igsf9b	chr9:27106812-27142348	26.5408	7.35845
Abcd3	chr3:121461827-121518133	26.54073333	37.2853
Ppp2r4	chr2:30271569-30303327	26.53746667	20.61424667
Gpx4	chr10:79516254-79519184	26.524	16.1831
Dock1	chr7:141862369-142365330	26.51953333	15.08504333
Ero1l	chr14:45902761-45938247	26.51333333	19.4311
Entpd5	chr12:85714806-85749979	26.5127	15.19238
Krt36	chr11:99963326-99966940	26.50683333	18.72516667
Grhl2	chr15:37162790-37293323	26.48966667	31.69066667
Cflar	chr1:58770129-58815726	26.47793333	38.27766667
1810027O10Rik	chr11:69652026-69653060	26.4688	62.01393333
Trp53inp1	chr4:11083587-11101524	26.46233333	18.28453667
Trim2	chr3:83965795-84024799	26.45493333	27.00913333
Gabpa	chr16:84835368-84864023	26.448	23.16446667
Gm15987	chr6:128902370-128925047	26.4469	1.562791667
Ankrd40	chr11:94189314-94203161	26.43513333	21.14096667
Mov10	chr3:104597749-104621481	26.4315	16.23003333
Pdzd8	chr19:59370573-59420270	26.4211	29.98843333
Capn1	chr19:5988544-6015825	26.4187	37.31153333
Klhl21	chr4:151382999-151391786	26.39666667	29.36776667
Heg1	chr16:33684551-33768281	26.38636667	30.2395
Anxa8	chr14:34899175-34913754	26.38443333	66.84893333
Trim39	chr17:36395817-36408949	26.37386667	17.21683333
Gm11602	chr1:63161044-63204869	26.36743333	9.238503333
Zc3h7a	chr16:11136686-11176486	26.3567	49.23116667
Ak3	chr19:29095321-29122392	26.35503333	41.02876667
Gmppa	chr1:75432517-75439751	26.34573333	26.70466667
Dclre1c	chr2:3341402-3378389	26.3414	26.4895
Msn	chrX:93291383-93363892	26.33476667	11.70571
Tmem219	chr7:134029732-134041792	26.30156333	27.06953667
Ptpn2	chr18:67825154-67884275	26.29586667	38.67573333
Stt3a	chr9:36539997-36575163	26.25956667	51.13496667
Nfx1	chr4:40917975-40973025	26.2458	15.98026667
Rpn2	chr2:157104833-157152054	26.24233333	68.1535
Fam13b	chr18:34602004-34666477	26.23846667	17.55153333
Ndufv1	chr19:4007504-4012725	26.23653333	36.57356667
Sdr39u1	chr14:56516121-56519069	26.22086667	27.48983333
Cryzl1	chr16:91689566-91729047	26.2106	30.8744
Csnk1g2	chr10:80085524-80103516	26.19693333	22.5992
Ctbp1	chr5:33590371-33617653	26.17843333	33.0883
Mlh3	chr12:86575469-86611514	26.16873333	14.61483
Ank2	chr3:126624524-126701370	26.15313333	3.282726667
9030624J02Rik	chr7:125883784-125985005	26.14643333	10.45273
Rab11fip3	chr17:26125980-26206122	26.14343333	19.61553333
Acox1	chr11:116033201-116060359	26.12456667	18.8771
Ptgr2	chr12:85626245-85656782	26.11453333	18.26566667
Prpf6	chr2:181336023-181390366	26.10366667	13.95606
Fam18b	chr11:62692991-62708686	26.09733333	30.06493333
Rusc1	chr3:88887900-88897285	26.0893	43.68346667
Gtl3	chr8:97944149-97958769	26.0862	17.29672667

1500015A07Rik	chr18:61886043-61887907	26.07596667	6.917953333
lp6k2	chr9:108698324-108708664	26.074	19.30773333
ltfg3	chr17:26349636-26381187	26.0554	13.63199667
lgbp1	chrX:97689629-97711464	26.0542	40.02533333
BC017647	chr11:77908174-77970841	26.054	49.26193333
lqck	chr7:125999288-126116166	26.05193333	5.79093
Tspan5	chr3:138405158-138567388	26.05123333	37.0273
Trappc6a	chr7:20094077-20101494	26.03973333	31.34143333
Cyr61	chr3:145309934-145312949	26.0336	41.575
Lamb1	chr12:31950158-32014504	26.02463333	4.429583333
Igf1r	chr7:75097142-75378553	26.01853333	30.93886667
Sec23b	chr2:144381964-144416489	26.01786667	24.85123333
Zmym5	chr14:57409421-57430553	26.01513333	24.93346667
Atf1	chr15:100058289-100091679	25.98946667	33.99363333
Strc	chr2:121189462-121206676	25.97303333	16.77582333
Bnip3l	chr14:67604076-67627714	25.9721	51.44796667
Mrpl4	chr9:20807180-20813281	25.95776667	19.1208
Vps36	chr8:23303331-23329069	25.95773333	13.30131
Uqcrb	chr13:67001556-67006286	25.95023333	52.09363333
Mrps14	chr1:162125390-162131317	25.93376667	25.81223333
Reps2	chrX:158849885-159081533	25.9312	22.72466667
Sema5a	chr15:32174567-32626096	25.92613333	11.57709
Kpna2	chr11:106849942-106860839	25.92013333	34.58523333
Snhg11	chr2:158201373-158211881	25.91833333	28.89396667
Rbm7	chr9:48296801-48303435	25.9153	12.83093
Rab28	chr5:42016214-42099394	25.90223333	19.34773333
Echdc2	chr4:107838041-107851913	25.89696667	23.2454
Pigyl	chr9:21961289-21962798	25.8926	17.7165
Polr2h	chr16:20717898-20722338	25.88862667	11.55548333
Ndel1	chr11:68634948-68666633	25.8756	30.2531
Tmpo	chr10:90610315-90634327	25.8729	32.1165
Nap1l1	chr10:110910247-110935206	25.8556	27.347
Mpzl1	chr1:167522311-167564672	25.85463333	43.2894
N28178	chr4:42930122-42954479	25.8491	7.04443
Lgals8	chr13:12531681-12554005	25.84876667	17.46413333
A930005H10Rik	chr3:115584496-115591048	25.8363	18.87785333
Foxj3	chr4:119212292-119301724	25.82743333	16.1538
Ccnd1	chr7:152115835-152125830	25.8247	75.93743333
Mtx2	chr2:74663868-74714805	25.82376667	14.40584333
Ccny	chr18:9314041-9450148	25.8109	29.23166667
Arpp19	chr9:74885420-74908120	25.81056667	41.1228
Phf14	chr6:11875880-12031198	25.80623333	30.54086667
Suclg1	chr6:73198498-73226901	25.79086667	30.18116667
Ttc19	chr11:62094974-62129943	25.7883	18.00706667
Bsdc1	chr4:129138922-129165676	25.78766667	33.43063333
Dpm2	chr2:32426377-32429091	25.78502	33.60613333
Imp3	chr9:56785306-56786205	25.76696667	27.26483333
Parp1	chr1:182499105-182531385	25.75746667	32.12043333
Katna1	chr10:7445797-7482948	25.75453333	15.04946667
Sbf2	chr7:117451526-117758434	25.7542	20.02016667
Fam188a	chr2:12268890-12341087	25.7506	19.99823333
Rnf4	chr5:34679038-34696079	25.73603333	29.68906667

Tial1	chr7:135583290-135605027	25.73343333	20.05953333
Rassf4	chr6:116583025-116623854	25.72353333	25.64806667
Tbc1d19	chr5:54200865-54295619	25.7075	18.52596333
Swap70	chr7:117365216-117427020	25.70686667	17.2822
Carkd	chr8:11497505-11513286	25.70273333	14.56173333
Rsf1	chr7:104728405-104841292	25.70203333	26.68146667
Zdhhc20	chr14:58451538-58509099	25.67133333	19.51986667
Epb4.1	chr4:131479340-131631228	25.65826667	24.87466667
Sec63	chr10:42481301-42552320	25.6574	24.35473333
Pcgf2	chr11:97550136-97561811	25.65626667	31.2594
Rnf111	chr9:70273235-70351532	25.6556	32.1669
Klraq1	chr17:88929463-88987707	25.6525	11.7067
Nme3	chr17:25033444-25034474	25.64626667	40.1628
Frmd4a	chr2:4073908-4535089	25.62673333	17.11495667
Rev3l	chr10:39451965-39595011	25.5959	34.17826667
Tbce	chr13:14090217-14131867	25.59386667	17.37817667
Ric8	chr7:148043295-148049630	25.58263333	30.52516667
Slc25a35	chr11:68781632-68786017	25.5698	38.44836667
Ninj1	chr13:49282915-49291620	25.5537	37.07003333
Ehmt2	chr17:35035443-35050992	25.55283333	18.3216
Otud7b	chr3:95908449-95965052	25.54646667	19.53951333
Otud4	chr8:82163574-82201654	25.54026667	27.12256667
Grlf1	chr7:17079821-17200342	25.52096667	36.5389
Wnk2	chr13:49131670-49243383	25.5206	16.5171
1810058I24Rik	chr6:35202698-35212059	25.5182	40.79433333
Hadha	chr5:30444843-30481520	25.50393333	31.58843333
Trappc2	chrX:162878756-162890475	25.48073	7.22038
Ran	chr5:129526030-129530196	25.4782	33.65796667
Ccdc58	chr16:36071745-36092204	25.46701	14.78214667
Esyf2	chr12:117519694-117611571	25.4607	21.57726667
Rasal2	chr1:159065313-159342726	25.45646667	20.83616667
Kat2b	chr17:53706295-53812046	25.445	14.0572
6430706D22Rik	chr1:90159687-90165983	25.4433	7.671505337
Mpdu1	chr11:69470205-69476144	25.42214667	31.65226667
Rab5a	chr17:53618558-53647003	25.42163333	25.66426667
2410004B18Rik	chr3:145600995-145607239	25.41563333	24.2507
Mrps36	chr13:101505894-101514614	25.41143333	15.11846667
Nufip2	chr11:77499640-77531468	25.40923333	32.33076667
Rapgef1	chr11:98698098-98714319	25.39836667	34.05586667
Os9	chr10:126531314-126558216	25.3954	33.02453333
Enox2	chrX:46363698-46641419	25.39236667	13.44195333
Ccdc97	chr7:26496135-26504072	25.3832	14.14160333
Dhx16	chr17:36016722-36029613	25.3601	17.59873333
Grhl3	chr4:135097802-135129535	25.35593333	39.38396667
Scand1	chr2:156137581-156138440	25.3496	14.14143333
Scap	chr9:110235796-110287450	25.34716667	21.59286667
Taok3	chr5:117570137-117725107	25.34366667	12.44960667
0610011F06Rik	chr17:26012444-26014108	25.3262	41.76223333
Exosc1	chr19:41997469-42007804	25.31006667	10.50640333
Nr2c2	chr6:92041411-92123052	25.29496667	27.1638
Rapgef1	chr2:29475239-29595883	25.29493333	22.3606
Gm12409	chr4:45775248-45777095	25.28346667	0.257792333

Arpc1b	chr5:145875124-145889055	25.27806667	22.875
Mid1	chrX:166123178-166428729	25.26	9.283376667
Slc4a1ap	chr5:31829367-31856411	25.25846667	12.39741333
Bik	chr15:83357291-83375065	25.23572667	16.56226667
Ankrd52	chr10:127814179-127831062	25.2263	23.62953333
Tec	chr5:73146961-73259687	25.22473333	18.03563333
Trmt1	chr8:87213145-87223707	25.21986667	19.46506667
Csnk2a1	chr2:152052575-152107587	25.21696667	23.90986667
Cacna2d2	chr9:107302210-107431674	25.21396667	8.78505
Pdcl3	chr1:39044658-39054081	25.1861	18.7104
Rgs16	chr1:155587482-155592598	25.17886667	263.1286667
Pde9a	chr17:31523178-31613254	25.17046667	38.899
Vps4b	chr1:108667364-108693302	25.1682	27.92703333
Aggf1	chr13:96120671-96145289	25.15686667	22.15266667
Scaper	chr9:55397689-55785922	25.1548	23.70566667
St7	chr6:17699215-17893022	25.15156667	3.584696
1700088E04Rik	chr15:78965084-78971681	25.14256667	35.92416667
Tom1	chr8:77557584-77594020	25.13963333	14.08403667
Ppp1cc	chr5:122608287-122625278	25.13936667	46.97753333
Pcbd2	chr13:55828728-55878191	25.13362333	47.82913333
Abca3	chr17:24488990-24547146	25.11466667	44.6795
Gm16515	chr11:60715747-60727294	25.11283333	48.6882
1700025K23Rik	chr10:38838613-38853701	25.1062	3.212759333
Efha2	chr8:41393404-41471658	25.10436667	17.15306667
Gns	chr10:120802145-120834301	25.0936	33.22416667
Dtnb	chr12:3572390-3781398	25.0867	14.45476667
Slc30a9	chr5:67698195-67747384	25.08316667	30.64523333
Hs6st1	chr1:36125244-36163291	25.0813	32.10886667
2700007P21Rik	chr2:106802685-106814554	25.07606667	10.70099333
Mdc1	chr17:35978442-35996615	25.0731	19.03923333
Aars	chr8:113557866-113580770	25.0646	13.2737
Herpud1	chr8:96910399-96919258	25.06163333	31.54896667
Ilk	chr7:112885103-112891439	25.06023333	29.275
Kdm3a	chr6:71538965-71582899	25.055	25.79016667
Ccz1	chr5:144748777-144775722	25.0511	18.55143333
Wdr13	chrX:7700426-7709984	25.04883333	28.23048333
Gnl3l	chrX:147417675-147451865	25.04133333	31.5685
Smad5	chr13:56804370-56843739	25.03596667	15.18993333
Trim25	chr11:88860716-88881607	25.03373333	15.08718
Opa1	chr16:29579419-29654688	25.0315	14.60693333
Naa10	chrX:71162208-71167283	25.02798667	14.06752
Angel2	chr1:192748986-192770370	25.02696667	15.19067
9030617O03Rik	chr12:102017332-102110820	25.02485	12.83900333
Ndufa12	chr10:93661753-93683693	25.0233	29.82236667
Eif1a	chr18:46757357-46769879	25.02306667	38.76133333
Agpat9	chr5:101275247-101328121	25.01486667	5.692573333
Fem1b	chr9:62639635-62659455	25.00593333	37.01876667
Myadm	chr7:3289038-3299350	25.00476667	38.7092
Pi4ka	chr16:17280443-17406407	24.9965	20.11606667
Arid4b	chr13:14156058-14291870	24.98816667	29.18703333
Cdc16	chr8:13757689-13781882	24.97716667	19.76186667
Naprt1	chr15:75721393-75724911	24.96993333	15.66290667

Slc7a7	chr14:54989125-55036539	24.96411	20.21788667
Klc2	chr19:5107745-5118408	24.9632	9.34507
Rbm22	chr18:60720439-60732383	24.9629	11.01072667
Pdk2	chr11:94887571-94902685	24.96063333	20.62377333
1110059E24Rik	chr19:21671802-21727281	24.9446	17.5051
Arrdc3	chr13:81022682-81035303	24.938	35.84216667
Bai2	chr4:129662321-129699877	24.92573333	7.93718
Sgpp2	chr1:78306920-78416861	24.9163	12.1856
Oxa1l	chr14:54980524-54989353	24.90216667	13.13702667
Tcf7l1	chr6:72576373-72738950	24.88363333	24.5246
Usp6nl	chr2:6243802-6364866	24.87186667	24.79846667
Eea1	chr10:95403296-95508152	24.86766667	22.6329
Plbd1	chr6:136560591-136610414	24.85486667	51.2455
Cep63	chr9:102488907-102528454	24.84796667	22.31173333
Ptpre	chr7:142729506-142877977	24.8288	18.18445333
Gpt2	chr8:88016515-88051457	24.81396667	31.3056
Cldn8	chr16:88561070-88563428	24.81296667	5.582413333
Mrpl50	chr4:49525468-49533955	24.81093333	18.44036667
Fam195b	chr11:120404201-120411041	24.79973333	32.5123
Asxl2	chr12:3426856-3506849	24.7811	30.14196667
Leprel2	chr6:124791112-124807705	24.77966667	23.80154667
Gm561	chr2:144419800-144421101	24.77083333	18.43987333
Bbip1	chr19:54004148-54019117	24.76746667	19.56213333
Stmn1	chr4:134024234-134029758	24.76143333	93.1523
Gprc5b	chr7:126115553-126138725	24.75796667	26.84096667
Gpr111	chr17:42845885-42879128	24.75323333	3.931546667
2410003K15Rik	chr6:49023793-49034716	24.75276667	9.979463333
Pccb	chr9:100882456-100935294	24.74661333	21.46106667
Lca5	chr9:83284961-83334734	24.74456667	23.05733333
Fcho2	chr13:99493360-99585404	24.73873333	31.0057
Kazn	chr4:141658304-141795316	24.73276667	27.66493333
Lyrm5	chr6:145159653-145165062	24.73036667	10.40918667
Hook3	chr8:27131892-27229696	24.72363333	30.88963333
Tbck	chr3:132347107-132501470	24.7013	29.07276667
Dcaf7	chr11:105898185-105920637	24.68186667	27.87333333
Pdk3	chrX:91009954-91077434	24.6811	18.95013333
Zfp800	chr6:28189930-28211601	24.64553333	10.92631
Ifngr2	chr16:91547338-91564252	24.64423333	16.23371667
Pion	chr5:20692084-20797519	24.63406667	34.23576667
Spast	chr17:74738326-74790453	24.62846667	20.20043333
Rnf103	chr6:71443887-71460875	24.6243	46.4254
4833420G17Rik	chr13:120251565-120274924	24.61936667	21.17836667
Zdhhc5	chr2:84528076-84555321	24.61873333	31.14043333
Pitpnb	chr5:111759782-111817379	24.57606667	26.33556667
Tbx3	chr5:120120677-120134610	24.5641	81.2308
Xk	chrX:8849909-8890371	24.5577	4.87731
4930481A15Rik	chr19:5406873-5422847	24.55646667	50.17273333
Sipa1l1	chr12:83271002-83552771	24.5433	21.38303333
U2af1	chr17:31784026-31795699	24.53316667	28.1712
Ppox	chr1:173207122-173211317	24.5246	10.72608333
1700040N02Rik	chr2:170181860-170205935	24.52016667	0.066245333
Usp4	chr9:108250161-108294860	24.51966667	23.78258

Esf1	chr2:139945616-139996294	24.51643333	20.75223333
Rlim	chrX:101152505-101176623	24.515	32.28223333
Elk4	chr1:133904181-133922261	24.5149	24.41183333
Ndufaf3	chr9:108468195-108469673	24.49883333	59.50283333
Rfc1	chr5:65653090-65726878	24.49423333	18.1519
Nupl1	chr14:60838304-60870215	24.4906	36.77766667
Supt4h1	chr11:87551066-87557119	24.49026667	45.17793333
Hmgn2	chr4:133520653-133523906	24.48843667	46.13203333
Nr1d2	chr14:19036569-19071620	24.48316667	14.91735333
Dpysl2	chr14:67421700-67487437	24.4801	31.1313
Olfr1415	chr1:94387394-94388330	24.47333333	0.351662667
C030034I22Rik	chr17:69765786-69768532	24.4714	7.49904
Frs2	chr10:116507182-116585530	24.46836667	19.43093333
Gga2	chr7:129130235-129164712	24.4608	22.79976667
Glis3	chr19:28336937-28754567	24.4556	17.25543333
Metap2	chr10:93321234-93353947	24.4554	45.6731
Polr3b	chr10:84085181-84189923	24.4549	21.22983333
Tbpl1	chr10:22423682-22451253	24.45286667	12.75563333
Chchd3	chr6:32742226-33010152	24.43553333	22.53376667
Cmc1	chr9:117973644-118059314	24.42736667	20.21436667
Ctnn	chr7:151621628-151656840	24.4257	28.26223333
Vps54	chr11:21138891-21221136	24.4195	31.58343333
Atp11a	chr8:12757015-12868728	24.41156667	30.0228
Hist1h4j	chr13:21826964-21827276	24.40846667	4.563413333
Mfsd1	chr3:67386689-67408153	24.3991	60.4505
Med8	chr4:118081941-118088387	24.39756667	14.40151333
Ccl5	chr11:83339280-83344020	24.38696667	0
Trappc8	chr18:20975724-21054579	24.38556667	28.6652
2310002L13Rik	chr18:70400082-70404238	24.37451667	98.7584
Atpbd4	chr2:114342153-114480664	24.37373333	23.39043333
Atrn	chr2:130732231-130856062	24.37103333	22.2347
Raf1	chr6:115568590-115626653	24.36383333	41.11166667
Ptpnj	chr2:90269912-90420804	24.3582	20.8512
Myh14	chr7:51861189-51920873	24.353	30.93366667
Rabl5	chr5:137384019-137389114	24.3372	25.74177333
Entpd7	chr19:43764178-43808343	24.3018	15.20273333
Srpr	chr9:35018787-35024588	24.29856667	31.17693333
Ccdc6	chr10:69559868-69655948	24.27483333	15.3595
Wdfy3	chr5:102261971-102498940	24.2734	16.76273333
Wdr33	chr18:31963710-32068641	24.27143333	19.16383333
Cln5	chr14:103469432-103476847	24.27036667	30.5505
Tceal1	chrX:133242603-133244405	24.2609	9.101326667
Gprasp1	chrX:132277230-132338007	24.2515	56.07966667
Fuca2	chr10:13220833-13237081	24.2506	23.20283333
Plekha1	chr7:138009423-138056816	24.2473	35.37156667
Appbp2	chr11:85004811-85048622	24.23431	30.067
Mdp1	chr14:56276715-56279345	24.22713333	22.8956
Naga	chr15:82159961-82169256	24.2257	29.63193333
Tomm7	chr5:23344761-23349963	24.21866667	18.58513333
Zzef1	chr11:72609727-72740622	24.21333333	12.41328333
Slc35a3	chr3:116373715-116415198	24.18016667	28.62766667
Banp	chr8:124474432-124553158	24.18016667	7.442786667

Larp4	chr15:99800504-99846789	24.17976667	29.90233333
H2-Ab1	chr17:34400171-34406363	24.17116667	5.291759667
Cdc5l	chr17:45528838-45570656	24.17063333	14.64976667
Rgs3	chr4:62220880-62364053	24.15573333	24.8932
Hspb8	chr5:116858503-116872873	24.149	74.32643333
Rtf1	chr2:119500803-119561143	24.142	34.4722
Ptprk	chr10:27794625-28317203	24.13253333	17.93296667
Efr3a	chr15:65618602-65705374	24.1203	18.93216667
Ccdc92	chr5:125314801-125342591	24.10306667	14.28801
Vps35	chr8:87784290-87823396	24.09573333	27.9055
Alkbh1	chr12:88769027-88784789	24.0767	33.43363333
2010321M09Rik	chr9:64808638-64834781	24.07533333	18.8383
Rgl3	chr9:21775970-21793897	24.07526667	12.25032333
BC016495	chr19:18706505-18726674	24.074	19.48616667
Etfdh	chr3:79407709-79432689	24.0679	20.33033333
Laptm4b	chr15:34167780-34214050	24.0646	37.20833333
Acyp2	chr11:30405991-30549396	24.0632	16.94578767
Tsta3	chr15:75755112-75760160	24.05943333	15.05192967
Ddit4	chr10:59412422-59414518	24.0169	44.29736667
Sft2d1	chr17:8503967-8520307	24.0079	43.27503333
Tnpo3	chr6:29490826-29559607	24.00726667	18.67986667
Tet1	chr10:62267317-62342762	23.99713333	19.795
Psmc11	chr11:80242116-80285635	23.9858	47.37393333
Vps72	chr3:94914963-94926973	23.9684	13.46479
Atf6b	chr17:34784124-34792017	23.96713333	12.3279
Abce1	chr8:82207340-82235639	23.9649	28.16286667
Xrcc5	chr1:72353994-72441527	23.9642	12.01886667
Mon2	chr10:122429116-122513561	23.9579	16.25693333
Rbm4b	chr19:4756524-4765940	23.9575	16.05903333
Plec	chr15:76001403-76061808	23.95106667	24.06463333
Amfr	chr8:96495487-96536540	23.9507	33.83453333
Irf1	chr11:53583515-53591876	23.94856667	3.709642
Chka	chr19:3851772-3894367	23.93996667	31.82976667
Morc2a	chr11:3549496-3590375	23.9329	29.9657
Dtymk	chr1:95689152-95698511	23.93206667	22.69053
Gps2	chr11:69727693-69730093	23.9255	27.09336667
Il10rb	chr16:91406479-91426079	23.92206667	5.556313333
Foxp1	chr6:98875335-99385339	23.91566667	30.71293333
Dyrk1b	chr7:28964501-28972313	23.91226667	16.785
Nfib	chr4:81936076-82151212	23.91043333	30.356
Timm13	chr10:80362194-80363714	23.90646	24.08413333
Mcts1	chrX:35953834-35966699	23.90513333	10.20854333
Phf16	chrX:20037652-20095022	23.89803333	14.79573333
Sod2	chr17:13200704-13210985	23.8841	33.24626667
Azi2	chr9:117949616-117973025	23.85653333	17.96426667
Hist3h2ba	chr11:58762412-58763032	23.84456	25.13876667
Dnajc3	chr14:119337153-119380924	23.83453333	23.02823333
Erbp3	chr10:128006423-128026557	23.83276667	22.39196667
Rap1b	chr10:117251652-117283030	23.81923333	36.31236667
Shmt2	chr10:126954178-126959500	23.81733333	24.4822
Brms1	chr19:5041403-5049917	23.80516667	11.81743667
Med16	chr10:79357451-79371683	23.79016667	18.94275333

Mapk1ip1	chr7:146027500-146037950	23.7895	33.96391
Pgpep1	chr8:73170334-73183637	23.78913333	18.7842
Hax1	chr3:89799378-89802608	23.78803333	12.31965333
Senp7	chr16:56075521-56190124	23.78646667	17.4068
Fam193b	chr13:55640676-55672481	23.78176667	28.27253333
Helz	chr11:107409273-107548257	23.78006667	17.04846667
Smcr8	chr11:60591026-60601789	23.77366667	22.94236667
Ebag9	chr15:44451186-44472572	23.77343333	38.81656667
Tspan12	chr6:21721394-21802515	23.773	24.6793
Synrg	chr11:83777929-83855581	23.76983333	34.3316
Zkscan1	chr5:138526311-138549050	23.7636	23.9755
Bbs2	chr8:96591853-96622711	23.75756667	25.73356667
Npepps	chr11:97067170-97141890	23.74686667	32.3021
Pdlim1	chr19:40296728-40346106	23.74223333	34.39613333
Snx5	chr2:144075858-144096638	23.7408	49.1229
Sec24a	chr11:51505764-51570336	23.7404	14.08836667
Sae1	chr7:16912402-16973134	23.73153333	40.8942
Echs1	chr7:147291621-147302322	23.7286	12.91017
Sik1	chr17:31981194-31992737	23.7145	33.36333333
Cycs	chr6:50512561-50516473	23.6967	18.4675
Eif1ax	chrX:155810126-155823631	23.6964	43.34
Mrpl43	chr19:45079503-45080932	23.6945	24.4218
Sprr2a2	chr3:92019756-92026413	23.694	0.740539033
Rtp4	chr16:23610004-23614308	23.69176667	5.575553333
Reg3g	chr6:78416261-78418868	23.69170067	100.8333413
Sprr2a2	chr3:92054568-92061226	23.6883	0.740539033
Syap1	chrX:159294774-159326394	23.65943333	33.6228
Supt5h	chr7:29099914-29123738	23.65846667	19.51448333
Stx8	chr11:67779984-68020650	23.645	5.567483333
0610010K14Rik	chr11:70048705-70051416	23.64403333	23.9934
Ptprs	chr17:56551848-56615903	23.64213333	36.0456
2210018M11Rik	chr7:105739115-105805079	23.64066667	17.4541
Lin37	chr7:31340459-31344665	23.6241	28.5397
Bicd2	chr13:49436917-49482394	23.62346667	15.7196
Mbnl3	chrX:48466670-48559009	23.6208	13.71756667
Tmem222	chr4:132821959-132833705	23.61666667	16.62285333
1110008P14Rik	chr2:32234620-32237435	23.611	58.7871
Hint3	chr10:30328012-30338172	23.60627333	32.57552533
Stat6	chr10:127080041-127098043	23.60026667	17.58383333
Nup98	chr7:109282716-109358634	23.58806667	21.4579
Tmem33	chr5:67651890-67682700	23.57013333	17.58835667
Mbtd1	chr11:93747532-93808298	23.56996667	29.04046667
Arnt	chr3:95238311-95301161	23.56483333	50.77156667
B230312A22Rik	chr4:43045285-43059092	23.56476667	13.30373667
Tmf1	chr6:97101943-97129118	23.56273333	21.53803333
Rnf13	chr3:57539987-57639155	23.55563333	23.985
Slc25a20	chr9:108564428-108586972	23.53409667	13.31907333
Anapc2	chr2:25127985-25141436	23.5313	28.58093333
Rnf144b	chr13:47218088-47343360	23.52013333	5.01078
Ndufv2	chr17:66428134-66450831	23.51716667	34.83916667
lft74	chr4:94281210-94359924	23.50213333	15.59683333
Acadvl	chr11:69823693-69828909	23.4893	30.561

Dctpp1	chr7:134400475-134404181	23.48786667	23.4417
Asf1a	chr10:53316766-53329021	23.4852	13.35766667
Cabin1	chr10:75108854-75227102	23.47746667	15.43574333
Kcnh2	chr5:23825406-23857422	23.4687	132.7483333
Mgrn1	chr16:4886099-4938296	23.45826667	23.74016667
Tapbp	chr17:34056422-34066235	23.4524	17.88413333
Ints12	chr3:132754916-132773949	23.44873333	16.6302
Slc25a39	chr11:102264294-102268831	23.44356667	14.74527
Cklf	chr8:106774802-106788836	23.4358	57.93463333
Tnks	chr8:35892232-36028744	23.42786667	20.5157
Adh5	chr3:138106127-138118463	23.41776667	46.15596667
Tmem14c	chr13:41111618-41117951	23.41616667	32.53513333
Dnajb9	chr12:45306883-45311055	23.41513333	129.4366667
Tmem123	chr9:7764076-7794332	23.41246667	59.63083333
Setd6	chr8:98239812-98242904	23.37566333	40.1583
Stat2	chr10:127707631-127729905	23.37396667	22.02586
Itpkb	chr1:182260606-182353790	23.36646667	20.76213333
Parp8	chr13:117643630-117814323	23.3599	17.19716667
Ccdc132	chr6:3448392-3553531	23.34756667	15.33576667
Map3k7	chr4:32051081-32110441	23.32733333	20.4314
2410001C21Rik	chr2:172266077-172295399	23.3197	18.7733
Ahcy12	chr6:29718442-29862310	23.31786667	27.81726667
C130039O16Rik	chr12:85490122-85559831	23.31706667	16.0948
Golga3	chr5:110605719-110652174	23.31653333	21.96993333
Kin	chr2:10002238-10014328	23.31463333	18.17763333
Klhl9	chr4:88364195-88368412	23.3055	35.44456667
Surf4	chr2:26775560-26789031	23.3005	34.5036
Nop58	chr1:59741849-59768354	23.2937	33.94206667
Apip	chr2:102913831-102932806	23.28413333	10.30283
Gapvd1	chr2:34532501-34610752	23.28243333	31.77723333
5430416N02Rik	chr5:100849860-100858554	23.2763	16.71127667
Pou2f1	chr1:167795284-167932765	23.27173333	30.7539
Pold4	chr19:4231898-4233634	23.27056333	16.91242
Hsd17b2	chr8:120225845-120282929	23.25883333	2.356893333
lfrd1	chr12:40929715-40949776	23.25763333	39.88576667
Pfkl	chr10:77449693-77472541	23.25366667	9.621803333
Parl	chr16:20279893-20302435	23.24076667	20.62276667
Zfp828	chr8:13869640-13881639	23.24036667	10.67111667
Ldb1	chr19:46107090-46119701	23.23573333	47.74346667
Qsox2	chr2:26064649-26092940	23.2204	15.5662
C630004H02Rik	chr11:115209022-115229033	23.2153	49.39736667
Flot1	chr17:35960301-35969732	23.21443333	15.18264
Mettl10	chr7:140019143-140044330	23.20966667	15.28809
Hbs1l	chr10:21015784-21088695	23.2092	22.5738
Tnks1bp1	chr2:84890616-84913205	23.2009	11.73489
Rbm12b	chr4:12067263-12073892	23.18343333	9.87398
Wipi2	chr5:143105537-143145324	23.17773333	16.34707667
Ap1m2	chr9:21099900-21116777	23.17626667	26.4303
Med11	chr11:70265432-70267228	23.16898333	14.04858
Snrnp200	chr2:127034139-127066187	23.1487	29.52483333
Uvrug	chr7:106035252-106289654	23.14096667	20.82813333
Slain2	chr5:73305555-73370067	23.12836667	21.35876667

Odf2l	chr3:144781552-144816879	23.12833333	14.67376667
A430033K04Rik	chr5:139064086-139090054	23.1242	13.79898
Atp6v0a2	chr5:125079647-125202517	23.1216	16.40963333
Capza1	chr3:104625702-104667423	23.11096667	18.1898
Kdelr1	chr7:53128209-53139096	23.09456667	31.38186667
Rcan2	chr17:43938799-44176465	23.07663333	8.51825
Cir1	chr2:73121928-73150649	23.0706	14.23693333
Eif2c2	chr15:72932054-73015377	23.0698	27.039
Aldh2	chr5:122017695-122043833	23.067	33.60373333
D11Wsu99e	chr11:113522632-113545465	23.06186667	16.65373333
Id3	chr4:135699736-135701307	23.05806667	166.4873333
Ankfy1	chr11:72503503-72585648	23.05653333	22.88466667
Gxylt1	chr15:93070172-93105515	23.05413333	21.4392
Rnf146	chr10:29063981-29082248	23.05273333	16.70466667
Ankmy2	chr12:36883710-36923878	23.05263333	13.68429333
Lman1	chr18:66140392-66162289	23.0264	22.41423333
Oaz2-ps	chr9:65524354-65538107	23.02593333	36.6889
Usp24	chr4:105988817-106113932	23.00643333	23.5789
Spcs3	chr8:55605786-55615351	23.00363333	73.15366667
Fnbp4	chr2:90585526-90621177	22.99796667	31.74053333
Uhrf2	chr19:30105002-30168214	22.9899	17.82716667
Hist1h1d	chr13:23646900-23649877	22.98363333	7.454987333
0610007P14Rik	chr12:87156404-87165495	22.98306667	46.29033333
Mcart1	chr4:45408795-45421638	22.98233333	40.13253333
Phc3	chr3:30798216-30868337	22.97893333	25.1532
Rad50	chr11:53463020-53520821	22.97013333	19.77010333
Snx4	chr16:33251541-33299648	22.95996667	44.2429
Hist1h3e	chr13:23653823-23654234	22.9527	12.82176667
Mink1	chr11:70376382-70427984	22.9505	19.0812
Abcc4	chr14:118881913-119105441	22.94966667	20.67636667
Tex264	chr9:106561076-106588279	22.94773333	19.45646667
Il28a	chr7:29293879-29295379	22.932616	0
Ankrd46	chr15:36407422-36426546	22.9274	17.99993333
Mapk8ip1	chr2:92223832-92241420	22.922	39.98443333
Sdccag8	chr1:178744942-178950563	22.9169	10.91317333
Ptk2	chr15:73035534-73253621	22.88756667	14.69060333
Sacm1l	chr9:123438999-123501716	22.8868	17.41063333
Narf	chr11:121098549-121117170	22.87806667	25.46183333
Tlk2	chr11:105042843-105145270	22.86146667	20.80613333
Lad1	chr1:137715174-137729918	22.85693333	37.95916667
Edem3	chr1:153602503-153669458	22.84796667	16.27836667
Ildr1	chr16:36694123-36726827	22.84706667	25.41346667
Lime1	chr2:181115939-181118333	22.84653333	20.55833333
Alkbh5	chr11:60351184-60372014	22.8458	21.20453333
Carm1	chr9:21351337-21393909	22.83973333	46.29333333
Fahd2a	chr2:127261950-127270301	22.82063333	12.90483
Bnip3	chr7:146082518-146101189	22.81616667	23.1495
Prkaa1	chr15:5093860-5131899	22.81606667	20.7387
Eif4ebp3	chr18:36823713-36825978	22.8118	10.20476667
Lmo4	chr3:143851493-143868219	22.79926667	32.78296667
Rps27a	chr11:29445841-29448040	22.79463333	45.846
DrosHa	chr15:12754569-12865046	22.79333333	17.03693333

Ano3	chr2:110498296-110790401	22.78968	3.097348333
A330040F15Rik	chr19:12660357-12671056	22.78136667	1.097213333
Gtpbp4	chr13:8971723-8995258	22.77733333	35.45553333
Mtmr2	chr9:13553624-13610925	22.76816667	22.5533
Bmpr1a	chr14:35224253-35315732	22.75973333	35.94573333
Mbtps1	chr8:122032051-122082661	22.75303333	16.5528
2210016L21Rik	chr5:115392210-115398549	22.75133333	15.44089333
Pgam5	chr5:110688153-110698918	22.75116667	25.86063333
Ngdn	chr14:55634290-55642974	22.7504	6.885277
1500011H22Rik	chr5:122814592-122821972	22.7394	13.94873333
Armc8	chr9:99378809-99469318	22.73463333	19.6992
Rprd2	chr3:95563795-95622876	22.7272	27.35113333
Polr2b	chr5:77739508-7778353	22.7234	20.21023333
Dguok	chr6:83430207-83456963	22.7191	18.75776667
Mphosph10	chr7:71521426-71537122	22.7076	20.39453333
Mau2	chr8:72540021-72566633	22.6923	29.0017
Ccdc91	chr6:147424392-147581134	22.68893333	15.51447333
Plxn2	chr15:88985978-89011218	22.68013333	38.8943
Arhgap44	chr11:64815540-64976463	22.6794	16.42323333
4930506M07Rik	chr19:59047847-59150559	22.6759	19.29760667
Tmed7	chr18:46745581-46757189	22.67136667	22.56213333
Cebpz	chr17:79318342-79336410	22.6712	15.63846667
Pfkfb2	chr1:132585619-132625830	22.66926667	30.20403333
Slc11a2	chr15:100218330-100253486	22.66616667	11.64088667
Rb1cc1	chr1:6204742-6266185	22.66203333	34.84973333
Rab3ip	chr10:116342839-116387436	22.6583	34.01866667
Robo2	chr16:73892550-74411157	22.65313333	7.277096667
Zcchc2	chr1:107886982-107930654	22.653	25.35513333
Nfu1	chr6:86959829-86978455	22.64684333	12.62126667
Prdx3	chr19:60939968-60950441	22.64173333	14.05302433
Lgr4	chr2:109757803-109854414	22.63266667	19.38023333
Krt76	chr15:101714781-101723351	22.6253	230.9556333
Trp53bp1	chr2:121022464-121097122	22.62456667	25.6668
Yipf1	chr4:106986967-107032428	22.622	19.89045667
Tada3	chr6:113316654-113327514	22.62006667	11.37261667
Nsmce2	chr15:59205752-59433239	22.61623333	20.55856667
Ppp1r14b	chr19:7049537-7051814	22.60276667	25.83346667
Gnaq	chr19:16207320-16461943	22.6006	46.54276667
Phf1	chr17:27070071-27074835	22.5942	13.99183667
E430025E21Rik	chr15:59163551-59205707	22.58536667	28.90593333
Hsd17b4	chr18:50287854-50355924	22.58523333	22.66576667
Uprt	chrX:101678120-101701601	22.5835	19.73274333
Ncoa2	chr1:13129239-13364164	22.58213333	22.78186667
Sptlc1	chr13:53428118-53472730	22.57786667	18.92693333
Nutf2-ps1	chr8:108384559-108403237	22.57493333	19.8836
E2f2	chr4:135728308-135751971	22.5679	22.44766667
Casp2	chr6:42215037-42232495	22.55853333	17.7427
Pisd	chr5:33078961-33128275	22.549	21.80483333
Thumpd1	chr7:126858607-126864279	22.54646667	21.7801
Neb1	chr2:17268360-17652695	22.53463333	32.00223333
Gpr137b-ps	chr13:12706332-12742662	22.53283333	17.2582
2700060E02Rik	chr14:20630623-20643045	22.5264	23.51353333

Gsn	chr2:35111878-35163422	22.5262	20.75633333
Letm1	chr5:34084000-34125353	22.51986667	15.2243
Pik3c3	chr18:30432549-30507774	22.51883333	16.36766667
Slco3a1	chr7:81420303-81699666	22.5144	22.5934
Wtap	chr17:13159664-13185405	22.4919	19.37953333
Tmem57	chr4:134358675-134409260	22.47433333	34.42576667
Gm16039	chr6:8209287-8378765	22.4714	0.366319533
1110057K04Rik	chr12:8214912-8292565	22.47036667	17.96913333
Dnajc4	chr19:7062400-7066762	22.4547	24.23046667
Robo1	chr16:72663393-73046345	22.4458	41.77866667
Sssca1	chr19:5730305-5731721	22.4327	33.41006667
Slbp	chr5:33982710-33994955	22.4302	20.0393
Tceb1	chr1:16632845-16646946	22.42096667	52.1651
C330019G07Rik	chr5:33131855-33196879	22.4205	27.37956667
Got2	chr8:98388036-98412265	22.41093333	34.70903333
Rhbdd1	chr1:82313153-82441941	22.40346667	11.71679
Lrpap1	chr5:35434154-35448346	22.40186667	15.4474
Xpo6	chr7:133245232-133343922	22.3958	43.19093333
Uaca	chr9:60642354-60728177	22.3915	13.22496
Zhx2	chr15:57526221-57671387	22.38966667	16.47969667
Ablim3	chr18:61959046-62071506	22.3811	26.41666667
Fam165b	chr16:92301547-92313286	22.36973333	8.806366667
S100a10	chr3:93359038-93368567	22.36803333	32.10773333
Rab3a	chr8:73278577-73282585	22.35623333	27.85896667
Tuba4a	chr1:75211548-75215828	22.355	60.6665
Gstt3	chr10:75236866-75244159	22.34789	10.82892333
Eif2ak2	chr17:79251889-79281912	22.34786667	21.35563
Smpd1	chr7:112702873-112706903	22.34673333	9.456966667
Mrpl40	chr16:18872110-18876730	22.3421	15.27610333
Kcne3	chr7:107325179-107333379	22.34193333	7.588806667
Coq5	chr5:115729710-115746981	22.3308	12.69993333
Ubqln4	chr3:88357637-88373647	22.32723333	11.19308
Slc1a4	chr11:20202182-20232716	22.32193333	13.90104333
Eif4a3	chr11:119149676-119161357	22.30942667	30.9277
Atp13a2	chr4:140542787-140563616	22.30433333	9.719506667
Ncor2	chr5:125497522-125659584	22.29693333	20.19343333
Ddx26b	chrX:53708015-53761020	22.29523333	37.20703333
Xpnpep1	chr19:53065672-53113032	22.29483333	9.57185
Arfgap2	chr2:91105271-91117528	22.29126667	19.36476667
A3galt2	chr4:128436501-128446542	22.28623333	8.812836667
Pim3	chr15:88692623-88696156	22.2595	33.57976667
Bmp2	chr2:133378934-133388621	22.25593333	12.46775667
Gm9958	chr5:90796022-90797514	22.25043333	3.511903667
Pan2	chr10:127740390-127758414	22.24543333	15.22475667
Mrps12	chr7:29524659-29526800	22.22653333	13.05214667
Nasp	chr4:116273656-116300556	22.21273333	27.85616667
Akap8l	chr17:32458368-32487522	22.20556667	12.46267667
Dcaf13	chr15:38944419-38978401	22.2008	19.1182
1110038F14Rik	chr15:76778973-76781161	22.2006	8.41254
Avl9	chr6:56664898-56711905	22.18476667	24.05486667
Xrn2	chr2:146838795-146903733	22.17023333	23.47363333
Rc3h1	chr1:162836541-162905107	22.16966667	27.05843333

Al847159	chr2:129003883-129006409	22.15253333	0.053488333
Slc35b1	chr11:95246235-95252966	22.14476667	31.2129
Mcts2	chr2:152512883-152513678	22.1422	28.62393333
1810074P20Rik	chr4:25175732-25208968	22.12436667	28.27876667
Ppp4r2	chr6:100783631-100818711	22.10703333	26.26436667
Zdhhc1	chr8:107996324-108020770	22.0931	20.69857333
Nfkbia	chr12:56590395-56593634	22.07893333	17.95137333
St14	chr9:30896174-30939384	22.065	29.104
Tmem184b	chr15:79191113-79233733	22.06476667	36.4525
Dcaf5	chr12:81436833-81537588	22.06473333	33.49576667
Rhot2	chr17:25975782-25981796	22.06326667	31.41023333
Wdr8	chr4:153516480-153530927	22.0531	9.86941
Necap1	chr6:122824574-122838959	22.04706667	17.52909667
Mrps17	chr5:130221402-130224566	22.03501667	15.8777
Ring1	chr17:34157736-34161625	22.03023333	9.452456667
Sult2b1	chr7:52985352-53014925	22.0204	31.53886667
2510049J12Rik	chr6:115533564-115542594	22.0136	7.249086667
Med13l	chr5:119010727-119215446	22.0103	15.75396667
Patz1	chr11:3189133-3209086	21.99391333	19.19789667
Dcxr	chr11:120586686-120588595	21.9889	16.62277967
Mast3	chr8:73302015-73316332	21.988	33.28976667
Jarid2	chr13:44826142-45017012	21.9716	23.00453333
Diablo	chr5:123961338-123974173	21.9691	35.6955
Pik3r1	chr13:102450717-102538172	21.9558	43.99603333
Tceb3	chr4:135559284-135577564	21.95093333	18.31753333
Ttc14	chr3:33699116-33715556	21.94646667	16.76056667
Ccdc34	chr2:109857973-109885482	21.94136667	18.25873333
Rtcd1	chr3:116191881-116211093	21.93893333	22.28206467
Pcdhb14	chr18:37607310-37610748	21.93703333	14.84509333
Gna12	chr5:141235897-141306385	21.93113333	20.62713333
Al462493	chr19:8954503-8955423	21.9292	31.76793333
Zfp384	chr6:124959255-124987888	21.92403333	14.43667333
Zp2	chr7:127275874-127288804	21.92086667	7.63474
Rbm12	chr2:155920617-155937701	21.91066667	23.38153333
Taf4a	chr2:179646850-179711351	21.9101	23.02973333
Nampt	chr12:33505199-33538234	21.90973333	17.41822667
Tekt5	chr16:10361346-10395541	21.90733333	29.87906667
Morf4l1	chr9:89986506-90009658	21.90273333	28.27386667
Nadk	chr4:154936500-154965110	21.89983333	18.26456667
Elovl1	chr4:118100697-118105521	21.89441667	36.39933333
Usp53	chr3:122636518-122687365	21.88336667	18.46716
Znrf2	chr6:54766909-54840218	21.88216667	22.61963333
Tnfaip1	chr11:78336351-78349762	21.8767	18.9634
Upf2	chr2:5872514-5977749	21.86366667	22.0036
Ube2z	chr11:95908749-95926678	21.85566667	18.67426667
Ammecr1l	chr18:31919477-31943737	21.83953333	33.75816667
Fubp1	chr3:151873421-151899794	21.8338	22.38023333
Snhg8	chr3:123210469-123211254	21.83073333	8.078116667
Ttll1	chr15:83314198-83341337	21.8284	10.98065
Dcaf12	chr4:41238332-41261934	21.81546667	29.19196667
Ptpn9	chr9:56842774-56910614	21.79396667	40.8028
Aurkaip1	chr4:155205377-155207207	21.79033333	34.52913333

Nap1l4	chr7:150699483-150734995	21.78146667	34.52606667
Ppfbp1	chr6:146837015-146980545	21.77803333	14.35936667
Usmg5	chr19:47157960-47165115	21.76416667	21.8516
Sms	chrX:153881885-153929978	21.7533	5.146093333
5730455O13Rik	chr19:38262968-38298622	21.74606667	16.922072
Tor1aip1	chr1:157851728-157883610	21.74276667	16.3423
Eci2	chr13:35069616-35086013	21.73756667	22.95526667
Gt(ROSA)26Sor	chr6:113017422-113027238	21.73723333	12.82347
Aip	chr19:4114445-4125827	21.73078667	13.47556667
Tia1	chr6:86354212-86383399	21.7252	29.65723333
1700037H04Rik	chr2:130972060-130985756	21.70666	12.93711
1810013D10Rik	chr5:53658344-53669779	21.69126667	14.96489
Pole4	chr6:82596705-82602859	21.688	9.877443333
Kbtbd2	chr6:56727518-56747807	21.66203333	41.5261
Lyn	chr4:3605267-3718759	21.6539	12.69876667
Pgrmc1	chrX:34138219-34146074	21.65186667	20.41506667
Rufy3	chr5:89012598-89071721	21.6484	17.1833
Lancl3	chrX:8777098-8845211	21.64666667	9.999793333
Ddx41	chr13:55631770-55638019	21.62865	20.88953333
Stk40	chr4:125781200-125818273	21.62713333	10.85267
H2-Aa	chr17:34419695-34424716	21.62581667	7.030666667
Hist1h2bh	chr13:23634840-23635221	21.6229	28.74256667
2310044H10Rik	chr7:51745307-51751883	21.6182	36.35116667
Trpc4ap	chr2:155460012-155518120	21.60823333	15.57629
Ctss	chr3:95330707-95360325	21.60247667	0.269826
Lgals12	chr19:7671150-7681666	21.59563333	4.227456667
Rnf44	chr13:54780759-54795321	21.595	21.5978
Vps41	chr13:18809160-18958680	21.59026667	29.8226
Ggps1	chr13:14144713-14155668	21.58196667	38.0356
1110003E01Rik	chr5:65839993-65884074	21.57713333	30.44206667
Mpnd	chr17:56148623-56156206	21.56376667	31.65826667
Inpp1	chr7:108971145-108986740	21.5555	27.68273333
Srfbp1	chr18:52625346-52650392	21.54566667	8.910872667
Psm10	chrX:137482963-137491250	21.54075	13.40878667
Ttc35	chr15:43308774-43359323	21.5404	30.21443333
Pclo	chr5:14514917-14863459	21.53706667	23.3184
Nudcd3	chr11:6005694-6100454	21.53624333	24.90145
A2ld1	chr14:123290081-123312387	21.5334	21.19039333
0610007L01Rik	chr5:130695613-130719635	21.53196667	12.64385333
Tusc3	chr8:40068920-40250468	21.5307	15.36169333
Mkrn2	chr6:115551955-115568688	21.52863333	13.64662
Lrrc16a	chr13:24104352-24372659	21.52473333	19.60703333
Trim33	chr3:103083215-103162691	21.5163	27.50693333
Plxna2	chr1:196446022-196643062	21.5135	10.62445333
1110034B05Rik	chr1:57445087-57463518	21.51203333	18.24786667
Ski	chr4:154528183-154596644	21.5072	29.90116667
Kdm5a	chr6:120314116-120394592	21.50143333	26.76036667
Txlna	chr4:129303320-129318309	21.49906667	21.18946667
Cnih	chr14:47395241-47408032	21.49216667	31.516
Smarchb1	chr10:75359513-75384359	21.4872	38.2677
Mrpl9	chr3:94247257-94252630	21.48403333	34.99693333
Plxn1	chr9:108997949-109022429	21.48033333	35.7608

Pde6d	chr1:88439589-88479076	21.47136667	28.01217
Ddx58	chr4:40150809-40186858	21.46416667	7.76915
Impdh1	chr6:29150439-29162271	21.4552	22.081
1190005F20Rik	chr1:153275777-153305313	21.44256667	16.9199
Eif2s1	chr12:79963058-79987997	21.4331	38.97963333
Prpf39	chr12:66137320-66164373	21.43046667	29.51303333
Csnk1e	chr15:79248281-79272487	21.4301	26.38076667
Igsf8	chr1:174242537-174249966	21.41733333	83.13023333
Dicer1	chr12:105925951-105990162	21.41243333	19.4244
2810025M15Rik	chr1:159342482-159350367	21.41231333	6.49288
Rbm4	chr19:4784292-4793877	21.4116	10.17482
Rab27a	chr9:72892671-72945399	21.40516667	22.40066667
Vps37c	chr19:10763304-10788909	21.40383333	22.22146667
Faf1	chr4:109349231-109636565	21.4034	17.4905
St6galnac2	chr11:116538018-116555974	21.4005	37.36146667
Clptm1l	chr13:73741449-73758087	21.39856667	19.96126667
AI314180	chr4:58812902-58925597	21.39516667	25.15456667
Senp3	chr11:69486611-69495586	21.39396667	20.60513333
4932702P03Rik	chr13:24997468-25003649	21.39196333	43.57976667
Ep400	chr5:111093391-111199736	21.3886	18.5978
Med30	chr15:52543999-52561986	21.37199333	17.97295667
Slu7	chr11:43247232-43261483	21.37186667	21.65636667
Lor	chr3:91884192-91887064	21.3622	31.38213333
Bdp1	chr13:100787948-100874025	21.3575	19.99333333
Pcdhgb7	chr18:37911432-38001524	21.3506	2.2173376
Chmp1b	chr18:67365012-67367541	21.3495	19.57303333
Isy1	chr6:87768441-87788753	21.34480667	13.60574
Vps13b	chr15:35301300-35860984	21.34136667	17.0736
D930016D06Rik	chr5:104954753-104983230	21.3407	16.11863
Spa17	chr9:37410878-37421305	21.33436667	14.56321
Eny2	chr15:44259656-44269231	21.32256667	13.89006667
Snrpf	chr10:93045773-93052403	21.31043333	13.36587
Man2a1	chr17:64950988-65104450	21.30383333	12.46559333
Sf3b5	chr10:12728255-12728989	21.29863333	17.02113333
Tmem9	chr1:137904795-137931607	21.2851	30.94499
Bicd1	chr6:149357407-149507379	21.26976667	16.26223333
Hist1h4a	chr13:23852714-23853026	21.26213333	4.98054
Zmat2	chr18:36953576-36959314	21.25856667	23.4994
Tmem106c	chr15:97794659-97800717	21.25713	12.87178333
Usp3	chr9:66365687-66440787	21.2549	17.55580667
Fech	chr18:64616203-64648720	21.25356667	14.96903
Snpc3	chr4:83063647-83099244	21.2495	15.52709667
Prr24	chr7:16857361-16859041	21.2405	14.1754
Wdr61	chr9:54564961-54582335	21.23906667	21.92563333
Vipar	chr12:88579824-88607236	21.23703333	27.38926667
Ranbp2	chr10:57909599-57956902	21.23586667	31.60673333
Hk1	chr10:61731602-61842656	21.23203333	16.70073333
Spag9	chr11:93857404-93987396	21.22346667	14.99846667
Ier3ip1	chr18:77168765-77180353	21.21863333	33.18226667
Pqbp1	chrX:7471644-7476395	21.20643333	58.9658
Per1	chr11:68912457-68923459	21.20573333	16.2763
Lonrf2	chr1:38851353-38878060	21.19306667	13.17866667

Wdr43	chr17:71965554-72008371	21.187	16.00928
Hrsp12	chr15:34413776-34425001	21.1866	33.61013333
D930048N14Rik	chr11:51464455-51471183	21.17843333	7.660383333
2810001G20Rik	chr11:63892985-63896761	21.17253	23.1906
Pcdhga12	chr18:37925233-38001526	21.1706	0.688554333
Exoc2	chr13:30905786-31065916	21.1685	23.19186667
Txnl4a	chr18:80403536-80422590	21.16736667	30.20816667
Mllt11	chr3:95022465-95032599	21.15072	25.27086667
Pcdhgb8	chr18:37921454-38001526	21.1505	3.792981667
Pigc	chr1:163899318-163903566	21.1472	5.730063333
H2-Ke2	chr17:34075853-34077288	21.13776667	13.83860667
Pop5	chr5:115685859-115690979	21.13496667	15.17102333
Pcmt1d1	chr1:7079000-7163709	21.12386667	40.66643333
Cluap1	chr16:3909008-3941147	21.12283333	13.59940333
Tacstd2	chr6:67484052-67485816	21.11953333	88.48336667
Hook2	chr8:87514493-87527263	21.11023333	9.76156
Pat11	chr19:11986888-12019586	21.09223333	19.26063333
Sf3b4	chr3:95976472-95981487	21.0917	19.78566333
Eif3b	chr5:140895258-140919312	21.08476667	33.17613333
Ubqln2	chrX:149932774-149936101	21.07673333	17.46606667
Rg9mtd1	chr16:56033832-56037887	21.06615333	7.72911
Fam60a	chr6:148869580-148894954	21.05956667	57.1163
Scmh1	chr4:120077885-120202804	21.05856667	25.9146
5133401N09Rik	chr13:58259009-58266054	21.0525	18.03283333
Zfp706	chr15:36926781-36937157	21.04906667	24.63363333
Tmem214	chr5:31172019-31179840	21.04776667	19.20336667
Qars	chr9:108410335-108418272	21.04713333	29.0438
Usp18	chr6:121195923-121220935	21.04412667	8.683652667
Ddx23	chr15:98475937-98493320	21.04156667	17.81749667
Rpl12	chr2:32817231-32819565	21.03976667	38.76703333
Taf12	chr4:131830289-131849244	21.03966667	12.90372333
Trmu	chr15:85709756-85727823	21.03962333	4.94033
Scoc	chr8:85958391-85982290	21.03883333	17.52383333
Hes1	chr16:30065442-30067882	21.03776667	31.7314
Fam92a	chr4:12080868-12099162	21.03126667	35.1173
Immp1l	chr2:105744794-105805715	21.02773333	17.30003333
Snrnp35	chr5:124933163-124941131	21.02737667	16.85056667
Pdcd2	chr17:15658538-15664265	21.0271	39.21183333
Hmgxb4	chr8:77517601-77555871	21.0179	12.75904
Naa20	chr2:145728976-145742161	21.002	6.881903333
Psm3	chr11:98543867-98557292	20.99906667	20.10416667
4922501C03Rik	chr9:87086797-87150367	20.9893	11.35030667
Trim8	chr19:46576137-46590945	20.96816667	16.05956667
Phf2	chr13:48897118-48966254	20.96426667	27.9262
Hist1h2bg	chr13:23663268-23663883	20.9562	24.99166667
Rnf169	chr7:107068764-107128968	20.9556	10.31889
Brap	chr5:122110594-122137256	20.95006667	11.67985
Fam20a	chr11:109534239-109583570	20.94926667	2.36242
As3mt	chr19:46781932-46815585	20.94151	17.58868333
Sh3yl1	chr12:31596533-31645014	20.93543333	25.86053333
Gar1	chr3:129527829-129534314	20.93017667	15.19153
Snap47	chr11:59220651-59263458	20.92146667	27.96177333

Zfp655	chr5:145992583-146008175	20.9187	21.77033333
Yme1l1	chr2:23012024-23054780	20.91863333	24.86466667
Phtf1	chr3:103772032-103811414	20.9127	19.52223667
Pex26	chr6:121133684-121146203	20.9043	26.0376
Xpo1	chr11:23156040-23197597	20.9042	22.57643333
Gpd1l	chr9:114808456-114843105	20.899	27.38343333
Cldn6	chr17:23816331-23819414	20.89127	16.60405667
Cspp1	chr1:10028298-10126849	20.8825	17.7885
Hivep1	chr13:42147389-42280395	20.879	29.981
Fgf21	chr7:52869259-52870860	20.87096667	0.232854667
Fam57a	chr11:76015557-76021759	20.8595	47.49086667
Atp6ap2	chrX:12164884-12194177	20.8482	23.06566667
9430023L20Rik	chr15:101114731-101121365	20.8411	16.03993333
1110049F12Rik	chr4:135531516-135543159	20.82163333	7.10262
Ndfip2	chr14:105657889-105708515	20.81663333	17.96963333
Skiv2l	chr17:34976170-34987149	20.8124	23.69086667
Nf1	chr11:79153393-79395111	20.8116	13.80503333
Hook1	chr4:95634069-95690965	20.80776667	12.28431667
Rnf170	chr8:27229851-27254341	20.80693333	9.671376667
Wipf2	chr11:98724911-98766892	20.7992	18.5256
Hsd12	chr4:59594434-59631566	20.79133333	21.13296667
Nup62	chr7:52071789-52086176	20.79045333	24.78216667
Elf2	chr3:51059586-51129909	20.7672	20.911
Samd10	chr2:181329923-181333852	20.75813333	47.70616667
Ces1d	chr8:95689970-95721703	20.75193333	11.32922867
S100a13	chr3:90318356-90328503	20.748	13.42128
Agt	chr8:127080486-127093607	20.745	26.79406667
Mansc1	chr6:134559224-134582506	20.73533333	5.965843333
Gm10052	chr15:103070862-103075015	20.71333333	30.9407
Gsg1l	chr7:133021932-133225925	20.70686667	58.90933333
Ppp1r7	chr1:95240221-95264195	20.7057	15.8722
Armc1	chr3:19032143-19063065	20.7034	17.04584667
Kars	chr8:114517339-114535205	20.6956	18.11893333
Elavl1	chr8:4284781-4325100	20.69453333	26.3178
D14Abb1e	chr14:28242032-28296740	20.69423333	20.92653333
Tmem63b	chr17:45797125-45823167	20.69046667	72.58233333
lqcc	chr4:129292860-129296337	20.6736	5.441233333
Spty2d1	chr7:54245765-54263784	20.67223333	15.9337
Ppap2a	chr13:113590999-113657888	20.65866667	9.913143333
Phkb	chr8:88364900-88584541	20.64943333	25.94503333
Rnf141	chr7:117960048-117987895	20.64326667	14.24427333
Rnf145	chr11:44332465-44379022	20.6397	22.06203
Polr2e	chr10:79498697-79502404	20.6395	42.80786667
Pik3c2b	chr1:134942588-135005265	20.6344	31.2828
2310030G06Rik	chr9:50547795-50554626	20.6198	21.6966
Dusp18	chr11:3795242-3801299	20.61536667	13.48206667
Klhl24	chr16:20097626-20127817	20.6103	27.86723333
Ppp2r2a	chr14:67632892-67691308	20.6038	23.54373333
Ebna1bp2	chr4:118293403-118300381	20.60086667	13.58423333
Ppap2c	chr10:78989173-78996532	20.58933333	23.6933
Dnajc9	chr14:21203859-21208132	20.57636667	15.37243333
Casd1	chr6:4551065-4593381	20.57266667	13.88612667

Mapre1	chr2:153567022-153599050	20.57153333	24.7932
Ankle2	chr5:110660022-110685670	20.57096667	12.55816667
Crim1	chr17:78599587-78775932	20.56986667	5.251756667
Ints3	chr3:90195301-90237558	20.55786667	10.16303333
Rel	chr11:23641728-23670970	20.53833333	16.80000333
Prepl	chr17:85462816-85489614	20.5192	21.33193333
Wbp4	chr14:79859743-79881075	20.51013333	13.88537
Vegfa	chr17:46153942-46169326	20.49297333	3.321903333
Ide	chr19:37343230-37405103	20.49196667	33.64413333
Zfand3	chr17:30142031-30346965	20.49093333	13.54563
LOC106740	chr17:15084740-15085828	20.48592333	2.846895333
Polr3d	chr14:70838554-70843278	20.48309667	8.314863333
Tomm5	chr4:45118081-45120985	20.48203333	10.20921333
Ccdc25	chr14:66456138-66485441	20.46503333	16.46794667
Myst4	chr14:22318991-22491700	20.46373333	18.7793
Gm6402	chr17:30531769-30533125	20.45233333	19.37456667
Rsph3b	chr17:7109064-7152705	20.44536667	13.24468667
Pinx1	chr14:64479148-64538696	20.43913333	8.031346667
St6gal1	chr16:23224812-23360423	20.428	5.11011
Dcaf6	chr1:167259631-167390594	20.42386667	19.09203333
Rbm47	chr5:66407795-66543163	20.42226667	19.55796667
Thumpd3	chr6:112996320-113018267	20.4184	14.01060333
Me2	chr18:73929693-73975046	20.40473333	29.02916667
Brd3	chr2:27301100-27331193	20.39673333	19.0507
Jagn1	chr6:113392510-113398223	20.39556	24.59843333
Rabep1	chr11:70658264-70756607	20.3929	14.53713333
Rab2b	chr14:52881433-52899070	20.39166667	28.52615667
Napg	chr18:63137569-63159104	20.38436667	13.58070667
Inhbb	chr1:121312041-121318825	20.37653333	8.81479
Ric3	chr7:116177832-116226838	20.37403333	16.0442
Abcf2	chr5:24071158-24083285	20.3669	9.890453333
Arl15	chr13:114584715-114947669	20.36096667	13.9322
Fgf14	chr14:124377512-125076349	20.3597	51.68936667
Fam160b2	chr14:70983101-70999642	20.35943333	26.07166667
Slc35f5	chr1:127457592-127492261	20.35476667	29.32466667
Slc38a1	chr15:96401848-96473344	20.35456667	21.01331333
Pcbd1	chr10:60552090-60557077	20.35162	38.305
Taf1d	chr9:15110657-15121441	20.34236667	32.2341
Trp63	chr16:25683850-25892174	20.34165667	33.31633333
Sepx1	chr17:24873586-24879723	20.3401	32.3417
Abhd12	chr2:150658250-150730467	20.33883333	22.2557
Dnajc13	chr9:104053926-104165260	20.3299	14.87303333
Pip4k2c	chr10:126634122-126648678	20.32756667	17.7325
Slc27a1	chr8:74092825-74110607	20.32486667	24.58283333
Klf9	chr19:23215715-23241401	20.32283333	21.1386
D10Wsu52e	chr10:85401381-85420538	20.32138333	25.4001
Hdac3	chr18:38096624-38114642	20.3172	22.79326667
Ppfia4	chr1:136193359-136229505	20.31526667	7.349313333
Sharpin	chr15:76177469-76181540	20.3142	26.73263667
Higd1a	chr9:121757677-121767118	20.31316667	22.85564
Mrps22	chr9:98489149-98502098	20.30776667	6.26191
Mbd3	chr10:79855285-79862224	20.30723333	18.1569

Plk1s1	chr2:146681624-146795825	20.30676667	19.75763333
Tctex1d2	chr16:32419787-32428978	20.30423333	22.73922
Id2	chr12:25778663-25780957	20.30193333	106.5992333
Mapk1ip1l	chr14:47917988-47942766	20.294	18.7309
Slc12a6	chr2:112106470-112203320	20.2919	20.02703333
Jmy	chr13:94200051-94269763	20.28373333	23.47996667
Gm4952	chr19:12674473-12702106	20.28266667	0
Taf9b	chrX:103402212-103416497	20.2754	26.57366667
Stox1	chr10:62122169-62188847	20.27293333	18.06974333
3110040N11Rik	chr7:88927072-88934339	20.2696	19.15906667
Kif16b	chr2:142444080-142727200	20.26643333	18.54416667
Capn5	chr7:105270074-105326703	20.25056667	17.36786667
Zfp869	chr8:72229036-72240801	20.24345667	16.03275333
Tmem106b	chr6:13019758-13039269	20.24323333	17.55996667
Myzap	chr9:71352153-71440167	20.23766667	5.385516667
Bub3	chr7:138703904-138715412	20.23566667	29.9007
Pex7	chr10:19579895-19627480	20.21273333	23.1147
Pkn2	chr3:142453865-142544968	20.20003333	19.64
Sucla2	chr14:73952592-73995949	20.18856667	27.22323333
Mrpl12	chr11:120345982-120350068	20.17762667	7.590233333
Ilgae	chr11:72904096-72960951	20.17483333	5.08262
Oasl2	chr5:115346942-115362254	20.17406667	9.3597
Krt24	chr11:99141406-99146552	20.17154	92.1285
Serf2	chr2:121274963-121279162	20.16436667	23.74048
Gtf3a	chr5:147760232-147767190	20.1611	14.99520667
Acox3	chr5:35925708-35956450	20.16023333	7.833843333
Rassf7	chr7:148401758-148404557	20.155	9.825676667
1500003O03Rik	chr2:119373442-119412758	20.1422	45.12663333
Eif2c1	chr4:126112256-126145665	20.13956667	30.35873333
Pmpca	chr2:26244867-26252641	20.1329	65.56546667
Ssr1	chr13:38063269-38086059	20.13013333	23.3194
Ndufb4	chr16:37647687-37654454	20.12553333	25.22336667
Cbx5	chr15:103021976-103070247	20.12103333	26.77436667
Cdc14a	chr3:115975470-116126950	20.1166	18.28023333
Crebzf	chr7:97591290-97596229	20.1134	13.62380667
Pard3	chr8:129587955-130136186	20.11286667	23.53506667
Chuk	chr19:44147823-44181967	20.1118	13.62647667
Zfp191	chr18:24170767-24179272	20.10643333	29.46606667
Prkag1	chr15:98643227-98661939	20.10443333	21.10137333
Ralgds	chr2:28368686-28408602	20.10156667	25.11273333
Ttll7	chr3:146515330-146645714	20.09613333	16.57166667
Tbc1d5	chr17:50872451-51318674	20.09033333	12.29839
Esd	chr14:75132151-75150250	20.08743333	37.1352
Cog6	chr3:52786044-52821145	20.0795	18.43913333
Clasp2	chr9:113650590-113828815	20.07566667	19.4273
Mpp5	chr12:79849933-79941700	20.07106667	19.66083333
Zc3hav1	chr6:38260496-38304603	20.05716667	13.85208667
BC017158	chr7:135414892-135441645	20.05259	6.687156667
Mboat2	chr12:25516463-25645164	20.05253333	16.72955
Rnf187	chr11:58745789-58752408	20.0428	24.22343333
Tbc1d20	chr2:152119607-152138326	20.03226667	9.316133333
Dmtf1	chr5:9118867-9161776	20.02946667	32.6773

Tmem134	chr19:4125959-4132307	20.02133333	27.52453333
Insig2	chr1:123200929-123229157	20.019	28.77356667
Mfn1	chr3:32428403-32478147	20.01813333	25.29623333
Cyb5r4	chr9:86916863-86972609	20.01366667	10.85428333
Scyl2	chr10:89102851-89149030	19.99726667	35.1051
Stk4	chr2:163899913-163981257	19.99146667	26.80193333
Jund	chr8:73221637-73224515	19.98646667	25.44246667
Tgif1	chr17:71193544-71202872	19.9854	34.40266667
Slc25a37	chr14:69859907-69903160	19.9838	21.9745
4933417O13Rik	chr7:150508676-150516555	19.97687	16.46068333
Caml	chr13:55724365-55733777	19.96906667	43.52043333
Chtf8	chr8:109407762-109417493	19.9631	22.39356667
Ptprg	chr14:12386066-13074553	19.96166667	9.11887
Fktn	chr4:53727053-53776143	19.94933333	24.059
Fam3c	chr6:22256521-22306081	19.9464	21.66488
Fam133b	chr5:3543832-3570546	19.94536667	9.803176667
8430410A17Rik	chr6:87863969-87886607	19.9439	39.12896667
Nhp2	chr11:51433274-51437216	19.9306	9.78758
Nmi	chr2:51804018-51828728	19.93019	13.86016667
Ift52	chr2:162843207-162871871	19.92833333	15.46036667
Scamp2	chr9:57408750-57436605	19.9227	15.1156
C1galt1	chr6:7795223-7822042	19.90673333	14.9838
Gmpr2	chr14:56291071-56297588	19.8985	19.69216333
Ogfrl1	chr1:23373262-23390014	19.87206667	17.6913
Zc3h4	chr7:16986544-17023045	19.86713333	22.0741
Gna11	chr10:80991476-81007791	19.8664	21.7043
Fam179a	chr17:72022600-72079009	19.8648	9.096016667
Xrcc6bp1	chr10:126305483-126338427	19.863	16.31509667
Tmem38a	chr8:75096001-75111183	19.8504	40.83763333
Tmem55b	chr14:51545744-51550524	19.83776667	16.09040367
Ilf2	chr3:90280122-90292301	19.83733333	43.72116667
Gpld1	chr13:25035020-25083805	19.83306667	13.85018333
Pkig	chr2:163484121-163551894	19.82426667	12.56682333
Tmprss4	chr9:44980808-45012158	19.82423333	20.50363
Sox4	chr13:29042598-29045551	19.82336667	20.0256
Hmgb2	chr8:59990639-59994796	19.8196	13.7857
Pvrl4	chr1:173300303-173318418	19.8171	25.75683333
Bms1	chr6:118333398-118369435	19.80996667	14.63033333
Pacrg	chr17:10595877-11033057	19.787	6.738273333
Snx18	chr13:114382386-114408772	19.7676	17.47863333
Stam2	chr2:52547724-52601183	19.7645	21.02423333
Gm5643	chrX:138732047-138733780	19.75636667	26.24346667
Mrpl34	chr8:73988824-73989652	19.74683	37.681
Gfpt1	chr6:86992839-87042201	19.74556667	34.11316667
Dsc3	chr18:20119430-20160598	19.7446	86.24293333
Cbx6	chr15:79654327-79664763	19.73783333	21.23956667
Golim4	chr3:75680305-75760753	19.737	35.96036667
Mrps18a	chr17:46247952-46265857	19.73432333	15.20216667
Hif1a	chr12:75008853-75048517	19.73316667	21.59193333
Pcdhb17	chr18:37644674-37647944	19.7265	18.69143333
Mysm1	chr4:94608731-94645791	19.722	19.64313333
Ccdc127	chr13:74487764-74503231	19.71996667	14.29260667

Osbp	chr19:12040333-12068604	19.7142	21.45123333
Kif21a	chr15:90763706-90880379	19.71413333	28.73573333
Vps16	chr2:130250055-130270005	19.70996667	13.0682
Atp9a	chr2:168459937-168567300	19.7083	6.35373
Nop14	chr5:34981184-35002797	19.70586667	14.16713333
Fbxl20	chr11:97943867-98010930	19.6995	17.3038
Wdr11	chr7:136735376-136779252	19.68653333	17.9132
Epc2	chr2:49307005-49407129	19.67853333	21.39113333
Bcor	chrX:11613863-11737481	19.6734	25.56286667
2210021J22Rik	chr15:85637401-85642127	19.66866667	23.482
Ip6k1	chr9:107904978-107951113	19.66456667	9.53743
Zfp426	chr9:20272992-20297190	19.6389	26.37976667
Rfwd2	chr1:161162456-161277711	19.6361	13.214
2010012O05Rik	chr19:46764395-46777872	19.62036667	15.63576333
Asb8	chr15:97965070-97996009	19.60213333	12.29106
Maea	chr5:33678220-33715943	19.60053333	25.52666667
Phrf1	chr7:148414686-148448650	19.58879	16.13543333
Mrpl49	chr19:6053629-6057751	19.58476667	27.1584
Limk2	chr11:3243299-3309238	19.5795	23.79106667
Vps37a	chr8:41597136-41636488	19.57763333	23.79336667
Golph3l	chr3:95392855-95423169	19.57666667	13.56036333
Galnt14	chr17:73843090-74059791	19.5758	0.014904
Lonp1	chr17:56753721-56766326	19.57573333	12.86206333
Smc4	chr3:68808893-68838545	19.57023333	20.87836667
4933434E20Rik	chr3:89856738-89866369	19.55723333	16.31566667
Rbl2	chr8:93593992-93647743	19.53193333	16.97973333
Cenpq	chr17:41060003-41071500	19.52626	11.52947333
Isg20	chr7:86058650-86065282	19.52517333	31.04926667
Tmem203	chr2:25110958-25111872	19.5223	10.11442667
Bnip1	chr17:26918023-26929466	19.51736667	9.060377667
Alkbh7	chr17:57136761-57138759	19.51686333	13.27225
Lmf1	chr17:25716118-25799771	19.51137333	12.20154
Tspo	chr15:83394002-83404633	19.50859333	35.19586667
Ncoa4	chr14:32973077-32992549	19.50593333	21.85823333
Slc35c1	chr2:92292921-92300675	19.50293333	11.81652667
Grb7	chr11:98308147-98316687	19.49263333	60.5012
Bet1	chr6:4026903-4036927	19.4925	14.67192333
P2ry2	chr7:108145085-108160505	19.49163333	3.874313333
Phax	chr18:56722222-56747366	19.48633333	19.7314
Ncoa7	chr10:30365387-30522913	19.4721	11.1856
Ptcd2	chr13:100089603-100114633	19.45453333	12.16841333
Dlg5	chr14:24953174-25065142	19.45193333	22.186
B230208H17Rik	chr2:25438537-25463966	19.44996667	15.9843
Rn4.5s	chr6:47613580-47613754	19.44773	32.8308
Tbc1d15	chr10:114634926-114688549	19.4467	14.28081
Gatad2a	chr8:72430967-72520278	19.4333	31.58296667
Mtx3	chr13:93614741-93628185	19.42736667	8.646866667
Jhdm1d	chr6:39086618-39156772	19.4157	23.37953333
Tbk1	chr10:120983512-121023850	19.4124	13.92874333
Sgpl1	chr10:60561389-60610413	19.4082	15.77508
Sbf1	chr15:89118666-89145742	19.40513333	14.97849
Gde1	chr7:125832071-125849252	19.40326667	28.58786667

Stx3	chr19:11849607-11893893	19.4029	16.45913
Mcc	chr18:44584713-44971836	19.39453333	20.77293333
Mpv17	chr5:31443033-31456615	19.3913	23.86386667
Mmp14	chr14:55050440-55060095	19.38673333	24.97426667
Myo1b	chr1:51806609-51972818	19.3781	3.39046
Tmem170	chr8:114388797-114400575	19.36716667	10.81519667
5031425E22Rik	chr5:22937625-22940171	19.35983333	8.607343333
Glod4	chr11:76033896-76057201	19.35676667	18.6236
Atp13a3	chr16:30312509-30388616	19.3539	28.50263333
Fam177a	chr12:56225514-56243069	19.34496667	13.35148
Mrpl13	chr15:55365649-55388867	19.33606667	29.85243333
Cox15	chr19:43807743-43827490	19.33323333	13.21842
Mmgt2	chr11:62462165-62479861	19.33126667	20.55396667
Zdhhc13	chr7:56044372-56082807	19.3298	16.61986667
Glrx3	chr7:144629330-144660277	19.32616667	15.69005333
Chmp1a	chr8:125728160-125736688	19.3244	16.37108667
Alg11	chr8:23171192-23182099	19.32436667	10.41174667
Vcpip1	chr1:9713277-9738463	19.3235	17.73254
D14Ert449e	chr14:27022152-27026527	19.32193333	26.97926667
Rab22a	chr2:173485345-173527683	19.31883333	38.34855333
Rnf11	chr4:109125461-109149110	19.3029	16.11968333
Esco1	chr18:10566509-10610350	19.29136667	10.68831333
Cldn23	chr8:36887762-36889613	19.2783	5.63376
Epm2aip1	chr9:111174348-111181595	19.27756667	17.87013333
Epha4	chr1:77363759-77511663	19.27183333	12.80246667
Six4	chr12:74201245-74214232	19.2717	44.67383333
Fgd5	chr6:91937103-92025999	19.26423333	7.271076667
Tmem5	chr10:121518315-121534158	19.25766333	12.15469667
Cnot6l	chr5:96504756-96591009	19.25396667	43.39133333
Zfx	chrX:91319969-91368746	19.25173333	14.33054333
Cry2	chr2:92243803-92274226	19.24913333	23.09129
Zfand5	chr19:21346767-21361330	19.24853333	26.87693333
H13	chr2:152495196-152534404	19.2457	23.83836667
Mrps5	chr2:127413161-127429722	19.2325	7.9125
Sreb2	chr15:81977698-82035390	19.23123333	29.31416667
5730408K05Rik	chr19:8962876-8963260	19.22926667	1.536715333
Vps52	chr17:34092826-34103433	19.2285	16.82723
4-Mar	chr19:37282034-37298947	19.218	31.2491
Rbmxl1	chr8:81029167-81032827	19.21486667	22.68203333
Rab23	chr1:33776740-33799409	19.20863333	9.8956
Cops7b	chr1:88483674-88503075	19.20647	18.68766667
Lyar	chr5:38611720-38625545	19.201	13.13568333
Hdac11	chr6:91106808-91124677	19.19033333	26.62586667
Atxn7	chr14:14845004-14939815	19.18663333	15.08373667
Pla2g12a	chr3:129581539-129598739	19.18616	7.87735
Sav1	chr12:71065998-71087989	19.18188667	10.04252333
Zer1	chr2:29952802-29979974	19.18	15.25663333
Slc25a16	chr10:62383380-62409242	19.17726667	13.28450667
Bbx	chr16:50191956-50432502	19.16693333	17.81236667
Cdk19	chr10:40069113-40203624	19.13666667	18.66073
Eml4	chr17:83750270-83879699	19.13396667	15.29606667
Ppargc1a	chr5:51845487-51945160	19.1258	5.673566667

Vps33b	chr7:87414540-87436465	19.1074	19.81913
Chd1	chr17:15841930-15909576	19.0957	15.17033333
Baz1a	chr12:55993975-56087323	19.08106333	18.7027
Kdm5c	chrX:148667772-148708897	19.06626667	23.7789
Nudt16	chr9:105031667-105034135	19.0605	21.06771667
Zfp110	chr7:13420158-13435933	19.05316667	12.51319667
1810030007Rik	chrX:12232009-12250672	19.0487	15.37196667
Tek	chr4:94405990-94541630	19.04833333	10.37455
Lphn1	chr8:86423996-86465853	19.04826667	47.18906667
Mat2b	chr11:40492815-40508705	19.04306667	25.2854
Cggbp1	chr16:64851910-64859317	19.03866667	27.98876667
Itch	chr2:154959216-155052591	19.03143333	28.20186667
Ccdc66	chr14:28295595-28321646	19.01776667	6.827673333
Abcf3	chr16:20548675-20561676	19.01503333	9.039123333
Ehd1	chr19:6276895-6300096	18.9971	16.356
Suds3	chr5:117541688-117566002	18.98963333	14.94152333
Mospd3	chr5:138037874-138042268	18.98566667	20.69946667
Eif2b2	chr12:86560462-86567578	18.98013333	21.82692333
Reep6	chr10:79792889-79799186	18.97551333	24.07006667
Fam177a	chr12:56300578-56318133	18.9712	12.89767
Slc31a1	chr4:62021734-62052803	18.96663333	30.32003333
Cldn12	chr5:5505014-5514976	18.96596333	10.93913667
Akt1	chr12:113892031-113912487	18.96053333	19.5929
Mtmr12	chr15:12134848-12201995	18.9553	15.26793333
Rsph3a	chr17:8138478-8172421	18.95346667	13.45346
Usp40	chr1:89841695-89905126	18.95253333	23.9864
Zc3h12c	chr9:51920089-51976216	18.95046667	33.46603333
2700062C07Rik	chr18:24629371-24636268	18.94691	15.2935
Siah1a	chr8:89247836-89269905	18.94303333	17.72467667
Zfp598	chr17:24806696-24818961	18.943	25.7982
Fam89b	chr19:5728086-5729666	18.94246667	41.0196
Tmem183a	chr1:136242673-136258576	18.9364	27.35386667
Pcdhga5	chr18:37854154-38001524	18.93393333	11.04988
Pou6f1	chr15:100405748-100416796	18.93016	10.29990333
Lactb2	chr1:13615979-13650590	18.9207	11.95976
Pdap1	chr5:145889638-145900958	18.91413333	22.20396667
Mib1	chr18:10725622-10812215	18.9098	15.42063333
Tiparp	chr3:65332368-65359440	18.9092	37.77843333
Mrpl17	chr7:112952295-112959601	18.90672	5.758193333
Vmac	chr17:56853354-56857122	18.8895	9.328686667
Folr2	chr7:108988501-108993845	18.88796667	1.339261333
Tmx1	chr12:71554140-71568611	18.8876	24.1208
Ddr1	chr17:35818511-35841084	18.88703333	25.1747
Cpd	chr11:76590709-76660510	18.886	17.64162333
Pigs	chr11:78141923-78156278	18.88353667	27.95443333
Chchd7	chr4:3866034-3870672	18.87829333	13.90617333
Pir	chrX:160707362-160810945	18.87383333	22.09072667
Alox5	chr6:116360088-116411196	18.87207	10.28764333
Prss53	chr7:135028957-135034484	18.87066667	5.397116667
Flot2	chr11:77851442-77873934	18.8614	15.01876667
Akap13	chr7:82600419-82899495	18.8613	22.56946667
Elmo3	chr8:107829500-107834523	18.8605	22.27066667

1810019J16Rik	chr4:133074877-133086705	18.85876667	27.32166667
Gabpb1	chr2:126454648-126501223	18.84913333	39.68513333
Mafg	chr11:120489666-120494861	18.8386	21.56136667
Alox12b	chr11:68970573-68983293	18.83316667	44.41963333
Mrps31	chr8:23521811-23540137	18.8311	27.49356667
Zyg11b	chr4:107900359-107973695	18.82553333	20.2397
Reep3	chr10:66471936-66559736	18.82326667	23.69126667
D6Wsu116e	chr6:116158050-116212689	18.8202	23.18443333
Trappc4	chr9:44211841-44215631	18.8199	26.24362
Man2b2	chr5:37198051-37221888	18.81943333	21.56203333
Nhsl1	chr10:18127480-18253697	18.81003333	12.4411
6430527G18Rik	chr12:88221652-88225764	18.80486667	15.8742
Sars	chr3:108227781-108248177	18.80213333	12.53339
Urod	chr4:116662821-116666980	18.79806667	56.6725
D14Ertd449e	chr14:26742783-26747158	18.78876667	27.08793333
Pggt1b	chr18:46399602-46440504	18.7859	18.15706667
Cnpy3	chr17:46872661-46889161	18.785	22.0466
Nudt4	chr10:95009640-95026801	18.78493333	36.9002
Cbr4	chr8:63966530-63982297	18.78483333	17.94368667
Smg6	chr11:74739373-74977950	18.77856667	24.45676667
Lrrc61	chr6:48504797-48520721	18.77576667	26.60293333
Zfp217	chr2:169934142-169968175	18.7723	16.86526667
Snupn	chr9:56798730-56831006	18.7671	5.809482667
Nr1h2	chr7:51805002-51809293	18.75868333	16.76418333
Plekhg3	chr12:77634546-77680026	18.75496667	21.1058
Gnptab	chr10:87842156-87910074	18.75373333	26.29436667
Rnf113a1	chrX:34731337-34732460	18.7528	0.227528
Zdhhc3	chr9:122981427-123022323	18.748	14.51979667
Soat1	chr1:158358238-158404459	18.74263333	13.36220667
Clpx	chr9:65142101-65178465	18.73503333	19.15126667
9130401M01Rik	chr15:57853826-57865849	18.7343	10.11847667
Dennd4a	chr9:64658817-64767474	18.7328	4.875593333
Rapgef6	chr11:54336346-54512788	18.7156	25.8409
Ctnnbl1	chr2:157563136-157717639	18.71526667	18.99236667
Tdrd7	chr4:46000333-46047631	18.71413333	10.2389
Kif13a	chr13:46844456-47025087	18.7134	22.1361
Tmem14a	chr1:21208711-21220248	18.71315333	11.28270667
Zfp644	chr5:107045759-107125849	18.71163333	36.36853333
Bend7	chr2:4638876-4723192	18.70766667	6.048163333
Sdf2l1	chr16:17130230-17132476	18.70660333	36.3542
Pomt2	chr12:88447815-88488852	18.7024	12.727711
Zdhhc17	chr10:110378835-110447122	18.6978	12.32422667
Zcchc14	chr8:124122602-124175833	18.69656667	16.07293333
Gspt1	chr16:11216333-11254418	18.69126667	20.3486
Adam10	chr9:70526807-70628036	18.6837	41.06446667
Dcp1a	chr14:31292750-31340242	18.6774	16.74993333
Al837181	chr19:5425143-5427316	18.67631667	20.34347
Arhgef38	chr3:132822494-132897853	18.6721	27.30493333
Med22	chr2:26760786-26766162	18.66263333	15.28693333
Micu1	chr10:59165382-59326870	18.6547	7.433916667
Rbbp9	chr2:144368000-144376595	18.648	14.79481
Erc1	chr6:119520813-119798168	18.63333333	22.38123333

Lzic	chr4:148859441-148870776	18.63234	18.73263333
Ccnc	chr4:21654849-21677693	18.6312	15.55503333
2810004N23Rik	chr8:127363254-127386929	18.62936667	24.4777
Hist1h4c	chr13:23790006-23790318	18.61883333	3.46855
Trappc5	chr8:3676476-3680921	18.61646667	12.96453667
Jak2	chr19:29326317-29387570	18.60703333	22.3761
Sash1	chr10:8442016-8605868	18.6043	13.17586667
Cbx4	chr11:118938884-118947551	18.5956	15.76733333
Hras1	chr7:148375832-148379903	18.5935	34.63681333
Ngly1	chr14:17081827-17144440	18.59296667	19.42553333
1810026J23Rik	chr9:21397165-21400414	18.5861	21.74053333
Rn4.5s	chr6:47635201-47635375	18.58503	31.23383333
Zfp369	chr13:65380161-65399103	18.58236667	15.1714
Hmg20a	chr9:56266652-56344743	18.5746	23.9877
Pcdhga3	chr18:37833988-38001526	18.5723	11.32037333
Slc1a5	chr7:17366694-17383623	18.57039	29.61443333
Dgka	chr10:128157191-128181112	18.56656	27.58983333
Pon2	chr6:5214623-5248373	18.5567	20.25779333
1810020D17Rik	chr7:104698840-104728007	18.54867	13.59918667
Dym	chr18:75178425-75446620	18.5467	15.85078667
1700106N22Rik	chr17:85490039-85857920	18.54443367	12.33619333
4933426M11Rik	chr12:81891518-81981820	18.54236667	13.51151667
Dlat	chr9:50442737-50467885	18.54033333	22.8329
Prkar2a	chr9:108594473-108651842	18.54013333	17.99173333
Heatr2	chr5:139626176-139662459	18.53553333	10.79967667
Polr2k	chr15:36103771-36106767	18.5264	22.37080333
Ythdf1	chr2:180639081-180655641	18.52377	22.74166667
8030462N17Rik	chr18:77872019-77952749	18.52336667	11.46966333
Ascl1	chr10:86953785-86956405	18.52311	15.7193
Evl	chr12:109792929-109926725	18.52006667	19.88823333
Rars2	chr4:34562206-34607416	18.51466667	11.65473333
D15Ertd621e	chr15:58247022-58289356	18.5108	25.26516667
Ctxn1	chr8:4257645-4259274	18.49463333	40.8174
Kcnj11	chr7:53352492-53356134	18.49106667	11.73010667
Dennd4c	chr4:86394458-86496506	18.48646667	24.1134
Dazap1	chr10:79727735-79751158	18.48134667	13.571
4930420K17Rik	chr5:9100736-9118983	18.47294333	8.57707
Fam83b	chr9:76338511-76393611	18.44622333	45.629
Ngfr	chr11:95430139-95449012	18.44283333	18.23006667
Elovl5	chr9:77765171-77832326	18.44213333	22.5814
Fbxl5	chr5:44135856-44173388	18.4404	19.42446667
Tmem20	chr19:38470469-38480097	18.43743333	15.9657
D14Ertd449e	chr14:26882536-26886911	18.43013333	26.9744
Phka1	chrX:99709313-99839585	18.42683333	11.62817333
Arhgef11	chr3:87422672-87541955	18.42283333	11.77055
Cacnb3	chr15:98462650-98474961	18.42023333	30.8384
Eif4e3	chr6:99575130-99616765	18.40566667	11.05564333
Rp9	chr9:22252755-22272800	18.39796667	12.87202
Fosl2	chr5:32438844-32460212	18.3976	53.7777
Synj1	chr16:90936341-91011553	18.39106667	17.1804
Itih5	chr2:10075169-10178156	18.38733333	0.3323632
Snora3	chr7:116663645-116663765	18.38723333	214.3323333

Glce	chr9:61905055-61918413	18.37403333	15.72403333
Fbxo38	chr18:62663712-62708397	18.36956667	13.64966667
Surf2	chr2:26771940-26775690	18.36736667	12.76310667
Cetn2	chrX:70158903-70163683	18.35807333	22.03086667
Setx	chr2:28980511-29037991	18.35736667	25.95416667
Nudt14	chr12:114172943-114180329	18.35696667	19.70736667
Golga5	chr12:103707343-103736117	18.34623333	10.55436
BC004004	chr17:29405732-29439832	18.34303333	36.63876667
Hs3st3b1	chr11:63698194-63735786	18.33496667	26.38156667
Ppp3r1	chr11:17059300-17100383	18.30853333	35.34263333
Tcp11l2	chr10:84039691-84077100	18.30210333	25.90321667
Rbck1	chr2:152142069-152158375	18.29843333	11.52875667
Bre	chr5:32000422-32387112	18.29354	19.85606667
Rassf1	chr9:107453885-107464598	18.2922	9.887653333
Ift57	chr16:49699406-49765239	18.2918	17.98994667
Prmt5	chr14:55126018-55136307	18.2909	17.88436667
Lrp4	chr2:91297687-91354058	18.29073333	11.20631667
Nat9	chr11:115044145-115048630	18.28796667	7.703623333
1110001A16Rik	chr17:79315838-79320388	18.2854	7.42086
Anapc1	chr2:128435818-128513131	18.2756	13.50806667
Csnk1g3	chr18:54021766-54115338	18.26493333	14.68510333
Rmnd1	chr10:5914188-5943372	18.2649	13.30542
Pdlim5	chr3:141902548-142058660	18.26456667	35.08026667
2810453I06Rik	chr5:144309573-144325393	18.2625	19.10526667
Rnf19a	chr15:36169688-36212902	18.25886333	11.75728667
1200014J11Rik	chr11:72861368-72897081	18.2568	19.1912
Hip1r	chr5:124423636-124453224	18.25176667	15.8074
Gdf15	chr8:73153292-73155534	18.2478	1.060563333
4833428L15Rik	chr9:45224708-45239315	18.24545667	1.46589
Smchd1	chr17:71693833-71824683	18.24253333	14.90153333
Fam134a	chr1:75139359-75144483	18.24013333	25.64693333
Coq10a	chr10:127800152-127807093	18.23896667	14.66697
Ube2d1	chr10:70717727-70748010	18.23546667	39.5304
C130022K22Rik	chr6:91828046-91849842	18.23393333	15.06123333
Plekhd1	chr11:103226405-103273978	18.23193333	22.5422
Rae1	chr2:172825617-172841240	18.22483333	23.05893333
Kri1	chr9:21077900-21092413	18.21936667	5.270276667
Car11	chr7:52955336-52960031	18.20833333	13.43079667
Bin3	chr14:70499951-70538013	18.1985	9.904316667
Secisbp2l	chr2:125562721-125608606	18.19806667	23.0172
Pick1	chr15:79059603-79079896	18.1934	19.01826667
Ocln	chr13:101267321-101322453	18.17813333	27.6817
Cand1	chr10:118635867-118677111	18.1751	19.82863333
Cog5	chr12:32339733-32622495	18.165	23.18533333
Dtx3	chr10:126627433-126632765	18.15856667	19.92406667
Nfyb	chr10:82211444-82226886	18.15313333	15.44423333
Heca	chr10:17620271-17667873	18.1437	9.732413333
Nfil3	chr13:53062577-53076408	18.1374	19.7445
2810432D09Rik	chr4:41659064-41660549	18.13727	13.50334
Xpo5	chr17:46339803-46379248	18.13353333	6.696276667
Auts2	chr5:131913551-133018213	18.12363333	21.8096
Traf7	chr17:24645794-24664883	18.1219	9.850063333

Rps6ka3	chrX:155694051-155801417	18.11759	25.67733333
Ly6g6e	chr17:35213886-35215749	18.1169	25.91895
Abi2	chr1:60466462-60538007	18.11456667	21.95503333
Gclm	chr3:121948509-121969566	18.1086	18.08794667
Irak1	chrX:71259252-71269260	18.10363333	34.0023
Leprot	chr4:101320387-101331963	18.10263333	41.3629
Hdgfrp2	chr17:56219079-56240019	18.09683333	14.43519
Trnt1	chr6:106719131-106732468	18.08846667	19.94048
Ier3	chr17:35958657-35959856	18.08803333	32.4194
Tbc1d8	chr1:39428341-39535592	18.08233333	29.49913333
Gdap10	chr12:33508980-33511773	18.08121667	25.26931333
Atg7	chr6:114593118-114810632	18.07366667	17.85353333
Maf1	chr15:76181723-76184808	18.07016667	12.48562
Rreb1	chr13:37917906-38043874	18.0636	16.61573333
Zfp949	chr9:88442857-88465924	18.06036667	24.4118
Vil1	chr1:74455957-74482134	18.05616667	9.20753
Npc1	chr18:12348202-12394895	18.04396667	17.2673
Wbscr27	chr5:135408242-135418507	18.0393	15.46046667
Fam178a	chr19:45005608-45058277	18.03623333	15.47005
Cwc22	chr2:77733709-77784410	18.03403333	8.760996667
Specc1l	chr10:74674817-74775145	18.0331	21.7168
Tmem43	chr6:91423744-91438452	18.02926667	17.84256667
1700011E24Rik	chr17:87788910-87827081	18.01689333	8.235276667
Clock	chr5:76641201-76733573	18.01613333	26.78243333
Rnf10	chr5:115691778-115722904	18.01133333	23.68506667
Wwp2	chr8:109960297-110082495	18.01106667	13.19656667
Tsc2	chr17:24732881-24769574	18.0081	20.39146667
Rbmx2	chrX:46048180-46063896	18.0021	8.919243333
Rp2h	chrX:19941733-19977475	18.00173333	11.35856333
Ehbp1	chr11:21905828-22186798	18.00106667	11.14126333
Rab8a	chr8:74685098-74705265	17.99616667	20.194
Eml2	chr7:19766518-19791831	17.99162333	8.03426
Ddx52	chr11:83755591-83776588	17.99116	12.84197333
Dnase1l1	chrX:71518555-71527672	17.99096667	18.02453333
Rwdd4a	chr8:48618998-48638191	17.98807333	10.14197
Rn4.5s	chr6:47609240-47609414	17.98482333	30.89193333
1-Mar	chr17:33822636-33855622	17.98141333	13.22934667
Timm10	chr2:84667177-84670370	17.98106333	14.86006667
Ccdc9	chr7:16859390-16872144	17.97923333	9.747936667
Kif2a	chr13:107750664-107812194	17.9785	25.66473333
Lsm2	chr17:35118798-35122838	17.97702333	21.43819667
Napa	chr7:16683991-16703324	17.97623333	18.73173333
Gm9866	chr12:27825660-27845381	17.97550667	0
Pld3	chr7:28317036-28338131	17.9626	45.37863333
Ubxn6	chr17:56207676-56214412	17.96016667	32.0919
Galm	chr17:80526810-80584372	17.95867667	3.066557333
Tmem87b	chr2:128644038-128679997	17.9579	18.7083
Med24	chr11:98565904-98590749	17.95103333	14.24173333
Isoc1	chr18:58819135-58839224	17.94983333	23.97896667
Prom1	chr5:44384860-44492975	17.9425	12.43333333
Slc7a5	chr8:124405045-124431586	17.93526667	19.67130667
Alad	chr4:62170203-62181097	17.9331	2.808380667

Snrk	chr9:122026383-122078820	17.932	11.27245333
Prkx	chrX:75007373-75041299	17.93066667	16.85983333
Zhx3	chr2:160596182-160698726	17.92586667	8.66984
Abhd4	chr14:54873803-54888844	17.92203333	21.494
Txn2	chr15:77745480-77759424	17.9197	20.2675
Parp2	chr14:51427620-51440975	17.91696667	26.6918
Rnf8	chr17:29751775-29778604	17.91663333	17.34940667
Hist1h4f	chr13:23643200-23643512	17.91425667	10.4406
Klh8	chr5:104291068-104340248	17.9114	5.16274
Myo1h	chr5:114764949-114814585	17.8908	5.428353333
Pex11b	chr3:96439279-96449304	17.88834667	9.239036667
Trcg1	chr9:57084362-57097671	17.88656667	904.1573333
Zfp329	chr7:13389126-13404209	17.88496667	20.45186667
Tmcc1	chr6:115968635-116143392	17.85963333	12.08765667
Ltf	chr9:110921795-110945270	17.85474667	161.473955
Mki67ip	chr1:120218419-120230408	17.8482	19.67582
Rab9	chrX:162895183-162917799	17.84593333	20.75583333
Eif4ebp1	chr8:28370798-28386128	17.8307	8.867153333
Mrpl39	chr16:84717824-84735547	17.82455667	17.0581
Creb3l2	chr6:37281020-37392148	17.82113333	28.45006667
Srek1ip1	chr13:105607318-105628739	17.82029333	14.82826667
1110012L19Rik	chrX:67639087-67642591	17.8155	8.05181
Cdipt	chr7:134119862-134124015	17.81483333	16.73243333
Rgs22	chr15:35939231-36070155	17.8144	3.528936333
ORF61	chr10:79439864-79447075	17.81383333	18.04026667
Med7	chr11:46250448-46256223	17.81096667	10.79588333
2610002J02Rik	chr4:154624074-154630796	17.81052	14.87966
9130011E15Rik	chr19:45892633-46072978	17.80969333	8.79435
Rasa1	chr13:85354303-85429091	17.79813333	19.6556
Aarsd1	chr11:101268153-101278747	17.79173333	22.22828
Tmem11	chr11:60677953-60692540	17.78496	14.0382
Zfp362	chr4:128450328-128483356	17.78343333	12.40453
Fam43a	chr16:30599808-30602883	17.77773333	23.23563333
Ambra1	chr2:91570294-91759006	17.7706	15.92007333
Phf21a	chr2:92024338-92204823	17.769	23.19813333
Pdzk1ip1	chr4:114761312-114766499	17.76121	34.0055
Lrrc8a	chr2:30093288-30119310	17.76116667	16.75406667
Gcc2	chr10:57718273-57768340	17.75886667	12.71139333
Camsap1	chr2:25782357-25838802	17.755	13.15566667
Cradd	chr10:94637379-94786731	17.74776667	15.09711667
2310033E01Rik	chr7:25326676-25331024	17.74323333	24.22175
Lias	chr5:65782735-65800446	17.73790333	18.65412
Ugcg	chr4:59202421-59235705	17.73253333	17.57452
Clic4	chr4:134769884-134828675	17.73133333	11.09056667
Gna13	chr11:109224107-109262683	17.72738	22.82973333
BC032203	chr17:46935064-46968362	17.72013333	16.06907
Hist1h4b	chr13:23848889-23849201	17.7187	3.985746667
Exosc10	chr4:147932535-147956509	17.7176	15.69776
Mapkapk2	chr1:132950280-132994120	17.71696667	13.79327667
Poglut1	chr16:38525263-38550266	17.69973333	13.9033
Gm10451	chr12:77545483-77549685	17.69941	3.99375
Commd7	chr2:153442665-153458517	17.69916667	16.27055667

Ncoa5	chr2:164825856-164860279	17.6956	14.94960333
Lmna	chr3:88285070-88307254	17.6937	59.3786
Mvp	chr7:134130373-134158108	17.6895	17.87643333
1810063B05Rik	chr8:128946400-128949335	17.68707333	9.03069
Clpp	chr17:57129686-57135794	17.6865	11.38501667
Zzz3	chr3:152058973-152125790	17.68143333	17.25044
Maff	chr15:79178107-79189506	17.6774	16.09833333
1700012B15Rik	chr12:3235790-3250374	17.67266667	27.53296667
1300018I17Rik	chr8:125766255-125778075	17.67173333	16.28666667
Srgap1	chr10:121218046-121484371	17.66796667	16.57576667
Cdc14b	chr13:64293852-64376296	17.65856667	12.30392667
Atg5	chr10:43988163-44084097	17.65133333	9.299023333
D19Bwg1357e	chr19:27463191-27504310	17.65116667	24.6617
Tapt1	chr5:44566400-44617845	17.64806667	21.25496667
Fam149b	chr14:21167383-21202713	17.6424	14.55019
Chfr	chr5:110564858-110600991	17.64236667	18.23356667
Ddost	chr4:137860652-137868526	17.6401	42.53776667
Asprv1	chr6:86578167-86579698	17.6398	33.5112
Rgs11	chr17:26339906-26348269	17.6364	4.243476667
1110032A04Rik	chr3:69623460-69663818	17.63373333	15.205
Hcfc1r1	chr17:23810574-23812491	17.62783333	16.3279
Aagab	chr9:63450461-63489696	17.62628	22.13056667
Scg5	chr2:113616469-113669248	17.62036667	70.82496667
Trim35	chr14:66915861-66930261	17.61843333	13.22835
2810055F11Rik	chr12:73174414-73186300	17.60451333	8.445079333
Fem1a	chr17:56396215-56403031	17.6038	10.84656
Ahsa2	chr11:23387881-23397946	17.60313333	13.9011
Cpsf2	chr12:103214183-103244203	17.59723333	16.06525667
Smyd3	chr1:180885169-181448134	17.5911	8.147823333
Cdkn1b	chr6:134870418-134875543	17.58726667	14.06673333
Tomm40	chr7:20286661-20300778	17.5836	13.26138333
G3bp1	chr11:55283253-55314389	17.57883333	19.9785
Iffo2	chr4:139086462-139176297	17.57753333	33.97533333
Oma1	chr4:102986450-103039033	17.57386667	28.76706667
2400001E08Rik	chr7:109054350-109060417	17.57041	14.93461
Tnrc6a	chr7:130267398-130338810	17.56563333	17.8337
Inpp5f	chr7:135754878-135839950	17.5656	23.5505
Zfp932	chr5:110425545-110439430	17.5637	6.97905
Cpsf6	chr10:116781723-116814029	17.55743333	13.14933333
Map4k3	chr17:80979851-81127433	17.5553	27.73396667
Pcdhgb5	chr18:37890807-38001524	17.5522	4.929025333
Tmem9b	chr7:116879349-116895777	17.55113333	37.93373333
Ahctf1	chr1:181675034-181734146	17.53996667	16.99986667
Med4	chr14:73909855-73918352	17.53647667	18.5216
Numb	chr12:85136388-85183293	17.53063333	22.7225
Pnp	chr14:51563977-51573087	17.52706667	19.28881
Snx20	chr8:91150726-91160027	17.51922	3.98994
Vti1a	chr19:55390840-55701051	17.51263333	12.86228667
Nek1	chr8:63472016-63609031	17.48944333	11.0074
Taf6	chr5:138619844-138628414	17.48726667	12.1292
Ints6	chr14:63295164-63379949	17.4839	13.68616667
Dync1li1	chr9:114597948-114632895	17.46573333	20.4563

Vps26b	chr9:26812086-26837679	17.4643	24.9319
Tle3	chr9:61220172-61266304	17.45993333	13.78200333
Mmaa	chr8:81790322-81818855	17.44776667	11.08225667
Decr2	chr17:26218155-26227109	17.44253333	13.79865667
Cttnbp2nl	chr3:104804832-104856064	17.43743333	21.3378
Lrrfip2	chr9:111020614-111128172	17.42613333	15.39753333
Sf3a3	chr4:124392104-124409666	17.4192	24.82456667
Adcy9	chr16:4287544-4419587	17.417	9.2151
Srsf9	chr5:115777185-115783089	17.41646667	23.6662
Mad2l2	chr4:147514598-147519805	17.41226667	38.2766
Exoc3	chr13:74307252-74346148	17.4088	13.1905
Gpa33	chr1:168060590-168096641	17.40853333	24.1348
Tspan6	chrX:130425608-130432968	17.40184	112.4646667
Dip2a	chr10:75725793-75808036	17.3987	9.4741
Irf2	chr8:47825098-47932812	17.39866667	20.96813333
Leng1	chr7:3611708-3617442	17.38946667	13.79929
Brd9	chr13:74075285-74098343	17.38633333	9.411263333
Zadh2	chr18:84257549-84266906	17.3838	12.0932
Syt5	chr7:4491366-4498169	17.37936667	31.8521
Gins4	chr8:24337081-24348140	17.37620333	19.57848
Atg13	chr2:91514768-91550749	17.37546667	17.00081667
Snora28	chr12:112779156-112779277	17.37063333	235.6313667
Ryk	chr9:102737249-102810637	17.36983333	18.82366667
Gm7334	chr16:78360107-78377002	17.36148	15.12498667
Ipo5	chr14:121310415-121347266	17.36076667	22.7119
Cyb5b	chr8:109674560-109711370	17.35946667	27.44123333
Eif1ad	chr19:5366812-5371511	17.3548	16.26152
Scfd1	chr12:52478566-52551083	17.35276667	16.56589667
Srp54c	chr12:56331464-56364007	17.35053333	15.24836667
Elp2	chr18:24762461-24797331	17.34873333	17.20273333
Rrm2b	chr15:37853707-37890810	17.34806667	15.54766667
Stag1	chr9:100544041-100858963	17.34533333	18.8962
Ripk4	chr16:97963548-97985362	17.34299667	31.80016667
Nat15	chr16:3884618-3904781	17.3408	18.4917
Entpd4	chr14:69955207-69984799	17.33615	12.63314667
Zfhx2	chr14:55680495-55710885	17.33156667	10.09681333
Cd300a	chr11:114751354-114765965	17.32776667	15.85413333
Prkab1	chr5:116463598-116474437	17.31842667	38.64590667
Trmt112	chr19:6984187-6985516	17.3053	30.12583333
2810474O19Rik	chr6:149257935-149284185	17.2998	22.2919
Zfp276	chr8:125778094-125794451	17.29536667	10.41038
Agpat4	chr17:12312149-12412506	17.29206667	13.10636
2310061I04Rik	chr17:36029621-36034323	17.28183333	33.23836667
Pno1	chr11:17103202-17111592	17.2747	9.005526667
Syp	chrX:7215705-7230382	17.26958333	4.471433
Atmin	chr8:119467292-119484345	17.2537	24.10416667
Dph3	chr14:32893747-32898851	17.24433333	16.5117
Slc25a46	chr18:31739821-31769556	17.2338	26.3462
Pkia	chr3:7366603-7445365	17.2318	8.344536667
Dnmt1	chr9:20711649-20764332	17.2311	22.6188
Pex5l	chr3:32848552-33042004	17.22496667	26.2747
Cramp1l	chr17:25098170-25152175	17.21683333	16.44386667

Dhps	chr8:87595655-87599060	17.20856667	9.607156667
Kifap3	chr1:165709809-165847231	17.2085	29.19103333
Wwox	chr8:116963551-117876612	17.20816667	3.09314
Dst	chr1:34068669-34365497	17.19916667	18.14466667
Acaa1a	chr9:119250411-119259413	17.19796	13.10683333
Pcdhb16	chr18:37637421-37642691	17.1956	18.78526667
Dock9	chr14:121941260-122196956	17.19039	9.279673333
Socs4	chr14:47896817-47911266	17.18723333	18.61726667
Farp1	chr14:121434795-121682948	17.18596667	12.87525667
Pyroxd1	chr6:142294216-142311144	17.1801	18.4479
Kpna1	chr16:35983448-36036248	17.1773	20.50293333
Cryl1	chr14:57893870-58017320	17.17726667	16.16733333
Plekhg6	chr6:125312668-125330522	17.1759	18.84684667
Mafk	chr5:140267489-140278606	17.17190333	17.62523333
Wdr37	chr13:8802213-8870976	17.17053333	14.6528
Sgta	chr10:80506817-80522899	17.1691	14.16763333
Neu1	chr17:35068197-35074242	17.1652	12.5335
Rtnk	chr6:83085801-83102573	17.1543	22.97303333
Trpc1	chr9:95607047-95650777	17.1489	13.50988333
Lztf1	chr9:123606710-123626675	17.14666667	19.88016667
Creb3	chr4:43575505-43579932	17.14043333	18.08126667
Gm5111	chr6:48539443-48540583	17.1285	0.149021667
Tnpo2	chr8:87560813-87581481	17.1281	24.76806667
Mrps26	chr2:130389492-130391130	17.12602	10.7907
Kirrel3	chr9:34296315-34843892	17.10976667	0.794793333
Fbxw7	chr3:84619498-84783120	17.10366667	16.93526667
Shprh	chr10:10869227-10935071	17.10263333	12.5076
Tprn	chr2:25118117-25125406	17.0992	7.540136667
Mtmr3	chr11:4380870-4494818	17.09466667	19.70476667
Mapkap1	chr2:34287544-34480470	17.09323333	19.51550333
2310039H08Rik	chr17:46909583-46910356	17.08035	10.87987833
Dusp16	chr6:134665490-134742646	17.0799	18.11364333
Lsg1	chr16:30561454-30587675	17.07886667	40.83196667
Rnf166	chr8:124990046-124999964	17.0763	7.915096667
Kif5c	chr2:49474833-49630298	17.07566667	13.41178333
Krba1	chr6:48345584-48369854	17.0679	6.152376667
Diap1	chr18:38004478-38095065	17.06703333	15.24387
Mrpl14	chr17:45823320-45835444	17.05969667	41.58851667
4930430F21Rik	chr15:30968880-30973086	17.05790667	2.871096667
Tob2	chr15:81678699-81688756	17.05326667	18.12736667
Pbxip1	chr3:89240625-89254874	17.05153333	21.0466
1110018G07Rik	chr12:86259098-86311836	17.0493	14.49368667
Strn4	chr7:17401237-17426280	17.04706667	13.17622
Slc44a1	chr4:53453284-53635350	17.04043333	20.99586667
Myh3	chr11:66891801-66915793	17.04036667	6.850806667
Pcnx13	chr19:5664634-5688908	17.03971667	26.2398
Exosc7	chr9:123022348-123045247	17.03446	6.404873333
Tfe3	chrX:7339786-7352328	17.03406667	33.58073333
Ppard	chr17:28369698-28438414	17.01775333	15.06776667
2700081O15Rik	chr19:7492114-7500394	17.01525667	17.1816
Get4	chr5:139728277-139746004	17.01279333	12.56677333
D330045A20Rik	chrX:136014905-136089119	17.00978667	0.562660667

Snx27	chr3:94301465-94386624	17.0002	20.65776667
Rnaseh2b	chr14:62950941-62991829	16.98410667	25.42624
Tmem107	chr11:68884310-68886795	16.977739	16.25326667
Gramd1c	chr16:43980462-44028058	16.97489333	5.7777
Zmat5	chr11:4604680-4637669	16.96905667	18.50755333
Tmem126b	chr7:97617338-97624505	16.96736333	18.91483333
Gtf2h2	chr13:101238531-101262564	16.9625	15.87379
1110008F13Rik	chr2:156688857-156699298	16.9594	42.816
Gm11992	chr11:8948594-8969357	16.95733333	20.9235
Cep290	chr10:99950922-100036289	16.95683333	14.05876
Nol9	chr4:151413435-151435603	16.9527	33.82676667
Tead1	chr7:119822833-120050319	16.93653333	31.01903333
Asah1	chr8:42425996-42460051	16.93323333	63.67696667
Csnk1g1	chr9:65756816-65892821	16.93216667	17.76783333
Dnaja3	chr16:4684069-4707693	16.9299	5.83647
Aifm1	chrX:45828120-45866603	16.9298	9.64524
Dapp1	chr3:137593969-137644513	16.92816667	15.14587
Smc5	chr19:23280930-23348387	16.92803333	12.02483333
Mybbp1a	chr11:72254879-72265052	16.9275	21.6622
Scn3a	chr2:65295174-65405549	16.91243333	20.10813333
Fam105b	chr15:27535675-27560448	16.90962	26.84891333
Pex19	chr1:174056885-174066628	16.90946667	12.54494
Zfp260	chr7:30880094-30892633	16.9094	18.45936667
Slc37a1	chr17:31432427-31487643	16.90653333	12.33979667
Cherp	chr8:74984381-74999132	16.90426667	17.35266667
Sf3b3	chr8:113334391-113370703	16.89803333	25.33333333
Ube2s	chr7:4759615-4763942	16.8817	22.60553333
Rnf216	chr5:143752571-143874699	16.87273333	12.19996667
Maz	chr7:134165650-134169993	16.86984667	13.95983333
Ubp1	chr4:41296028-41336799	16.86625667	21.26072
Mpv17l2	chr8:73282547-73284820	16.85373333	9.4965
Filip1l	chr16:57353389-57572917	16.84903333	51.06203333
Ostm1	chr10:42398721-42422268	16.84726667	25.04516667
Nmd3	chr3:69525976-69552968	16.84617667	38.58026667
Mbnl1	chr3:60276751-60433670	16.84383333	27.46686667
Ehmt1	chr2:24646293-24775110	16.84283333	17.38496667
Pitrm1	chr13:6547402-6579395	16.84243333	6.99232
Agk	chr6:40275476-40346761	16.83583333	3.17334
Ubr1	chr2:120686011-120796451	16.8323	12.24614333
Vsnl1	chr12:11332050-11443455	16.82973333	21.8329
Tmem70	chr1:16655271-16668356	16.81936667	7.057963333
Creb1	chr1:64579377-64651122	16.81663333	20.39873333
Arl6ip4	chr5:124566116-124568204	16.81044667	21.74666667
Psmc5	chr2:34707608-34726482	16.80726667	19.82636667
Ppp6r1	chr7:4583096-4610552	16.80706667	33.60196667
Cars	chr7:150743134-150785995	16.80686667	6.580496667
Fstl3	chr10:79240018-79245375	16.8056	12.08943
Cib2	chr9:54393158-54407886	16.7928	19.87084667
Slco5a1	chr1:12856630-12981216	16.78336667	3.168443333
2610301G19Rik	chr14:70537975-70553598	16.76793333	9.245306667
2700050L05Rik	chr7:140829357-140864700	16.76306667	13.92523333
Cwf19l2	chr9:3404084-3479236	16.76273333	14.85920667

Atg14	chr14:48160567-48188109	16.75453333	6.287283333
Bag2	chr1:33802328-33814595	16.75008667	16.7365
Gtpbp6	chr5:110532995-110537216	16.75	8.397776667
2310035C23Rik	chr1:107560437-107651708	16.7494	21.29356667
Rlf	chr4:120817977-120861139	16.74453333	19.98406667
Chrna10	chr7:109259779-109265227	16.7417	0.409189667
Aacs	chr5:125956242-125997773	16.7323	11.00143667
Tmem22	chr9:100452606-100471504	16.73126667	5.406646667
Tsn	chr1:120195094-120207709	16.73013333	20.05783
0610011L14Rik	chr2:156373311-156394708	16.7255	4.350203333
D17Wsu104e	chr17:56315963-56323343	16.71448333	17.43436667
Lsm14b	chr2:179759691-179770166	16.71113333	19.7538
Eif2b1	chr5:125020222-125029066	16.7109	11.70955333
1700034H14Rik	chr18:85116685-85120916	16.70407	18.09537333
Flnb	chr14:8650470-8784101	16.7034	20.19656667
Lcorl	chr5:46088422-46248779	16.69353333	12.98323333
Rnaset2b	chr17:8321455-8340697	16.69138667	7.978373333
Fam125a	chr8:74066828-74071925	16.69096667	15.30391
C430048L16Rik	chr4:12016516-12023418	16.68866667	10.65423333
Klhdc3	chr17:46811499-46817879	16.68527	15.01491333
Zfp36l1	chr12:81208746-81214000	16.68433333	34.1044
Wdr60	chr12:117445522-117501498	16.68426667	12.00586667
Rbms1	chr2:60590009-60801261	16.66883333	29.19036667
2410002O22Rik	chr13:104932232-104968546	16.65766667	17.54763333
Fahd1	chr17:24985840-24987247	16.65666667	5.43904
Spef2	chr15:9592490-9678561	16.65486667	2.322050133
Fbxw5	chr2:25356297-25360990	16.6511	28.19753333
Pppde1	chr1:180117547-180182728	16.64668333	21.94346667
BC005561	chr5:104937370-104951402	16.64086667	13.11438333
Lrrc47	chr4:153385911-153395621	16.63553333	22.3399
Ptpn14	chr1:191552146-191700572	16.62667333	18.6409
Col17a1	chr19:47720830-47766532	16.62613333	54.4288
Cbfa2t2	chr2:154262219-154365092	16.6223	29.77526667
Uba3	chr6:97133809-97155636	16.6115	36.94746667
Acsl5	chr19:55327858-55371118	16.6055	28.02373333
Daxx	chr17:34046389-34052535	16.60496667	9.829786667
Ttc15	chr12:29375492-29435318	16.6027	13.38138667
Smn1	chr13:100893159-100907653	16.60232667	7.24002
Naa15	chr3:51219937-51279907	16.59893333	25.5124
1700120K04Rik	chr7:134747416-134747959	16.59640333	0.168803667
Tm2d3	chr7:72838302-72846799	16.59537667	18.04563333
Ppa1	chr10:61111368-61136913	16.59395667	21.89076667
Fbxw9	chr8:87584017-87591019	16.59006333	7.55669
Myo18a	chr11:77590766-77679482	16.5818	14.09638
Zbbx	chr3:74841828-74947645	16.5807	12.05901667
Topors	chr4:40206638-40216874	16.5762	18.1762
Traf6	chr2:101518596-101541131	16.57146667	21.1536
NfyA	chr17:48526209-48549145	16.56843333	16.7349
Ccdc123	chr7:36182111-36223703	16.56673333	17.3059
Rpe	chr1:66747466-66766379	16.56246667	12.95974667
Sc5d	chr9:42062259-42072383	16.56196667	12.54585
Bcl2	chr1:108434755-108610867	16.54526667	15.38046667

Tatdn2	chr6:113647492-113661062	16.54496667	21.34151
Gon4l	chr3:88639152-88714021	16.54243333	17.5677
Gm11974	chr11:6425593-6428763	16.53686	4.878545333
9330133O14Rik	chr8:124967555-124970376	16.53617667	13.87822667
Btbd10	chr7:120459157-120512853	16.53186333	11.82187667
Stbd1	chr5:93032076-93035605	16.52943333	4.700703333
Erp44	chr4:48206202-48292461	16.52876667	9.151423333
Tmem216	chr19:10624955-10630728	16.5258	10.08008333
Nalcn	chr14:123675862-124026366	16.51476667	34.38826667
Smarca5	chr8:83223842-83263358	16.50866667	18.03916667
Atp5s	chr12:70825948-70845645	16.50847333	15.29926
Rnf115	chr3:96531533-96595078	16.50793333	22.5638
Commd2	chr3:57448270-57455606	16.50764	13.44766
Stau2	chr1:16218890-16509383	16.50236667	31.7172
Dda1	chr8:73993092-74000334	16.49203333	19.42613333
Mafb	chr2:160189412-160192801	16.49112333	17.37641
Orai2	chr5:136623331-136646526	16.48306667	6.538706667
Sephs1	chr2:4802609-4831602	16.48173333	15.01083333
Zdhhc4	chr5:144078167-144090917	16.46843333	6.951576667
Lenep	chr3:89205817-89206572	16.45550667	4.13696
Chd8	chr14:52817825-52857247	16.44956667	27.50376667
lds	chrX:67596244-67618260	16.44723333	31.0537
D10Wsu102e	chr10:82822965-82831580	16.44633333	15.14398667
Hist1h2bl	chr13:21807631-21808012	16.4437	39.55333333
Ecd	chr14:21139080-21167343	16.43963333	7.828153333
Nfe2l3	chr6:51382668-51408767	16.43841	30.37276667
Zfp1	chr8:114167342-114194911	16.4236	5.20694
Map3k11	chr19:5689130-5702864	16.41576667	14.97023
Pigu	chr2:155103987-155183160	16.40773333	29.27183333
Uros	chr7:140878012-140900978	16.40643333	11.53920333
Chmp4c	chr3:10366972-10391005	16.39253333	13.5477
Birc2	chr9:7818225-7835255	16.38812333	26.0594
AI414108	chr9:27160269-27165128	16.38523333	15.38853667
Pisd-ps2	chr17:3064317-3084183	16.38436667	15.58773
Prpf3	chr3:95634544-95659676	16.38374333	9.64204
lah1	chr12:21322252-21329468	16.37976667	5.16814
Fgd6	chr10:93498745-93608084	16.37214	19.87196667
Heatr3	chr8:90661783-90695842	16.3688	26.41076667
Eif4e	chr3:138189154-138220563	16.35746667	26.60323333
Creg1	chr1:167693910-167705435	16.35116667	11.30794667
Zmym4	chr4:126539064-126645167	16.34956667	14.57705667
Hist1h2ak	chr13:21845303-21845696	16.34920333	5.172176333
Lpcat3	chr6:124613121-124654734	16.3461	23.12646667
Poli	chr18:70668333-70689975	16.34593333	8.35403
Trrap	chr5:145529660-145620642	16.3449	20.08893333
A330050F15Rik	chr17:69788665-69838573	16.3448	5.441746667
Large	chr8:75338497-75876455	16.3356	15.36556
Fam3a	chrX:71630058-71638478	16.3342	11.88466667
Herc2	chr7:63305524-63487168	16.33323333	14.73553333
Ankrd16	chr2:11699379-11711950	16.33186667	6.18428
C1galt1c1	chrX:35983959-35988320	16.32787	33.4983
Dnajb2	chr1:75232997-75242267	16.32006667	18.65431333

Runx1	chr16:92601710-92826311	16.31986667	15.55251333
Hist2h3b	chr3:96072616-96073027	16.31741333	4.352943333
Znf512b	chr2:181316807-181327166	16.3142	21.78533333
4632411B12Rik	chr1:36392574-36426026	16.31406667	16.88996667
Chchd5	chr2:128955435-128959847	16.3079	12.47696667
Rnf150	chr8:85387254-85615170	16.30589333	14.47833333
Pnpla7	chr2:24831552-24909592	16.30383	7.69984
Crkl	chr16:17452079-17486348	16.3006	19.1945
Tmc6	chr11:117627298-117641997	16.29866667	20.37476667
Brf1	chr12:114198072-114238832	16.2901	15.16717667
Phf17	chr3:41359655-41420786	16.287	22.20106667
Pam16	chr16:4616465-4624946	16.28166667	10.88564333
Tshz1	chr18:84181018-84255954	16.27623333	12.20748
1110020A21Rik	chr17:85316521-85357050	16.27387333	11.17910333
Whamm	chr7:88716177-88741722	16.27292667	6.881593333
Rsph9	chr17:46266225-46281147	16.2725	30.50166667
Zfp84	chr7:30553570-30566438	16.27043333	16.08286667
Atad2b	chr12:4924158-5054216	16.26586667	18.5104
lft172	chr5:31555651-31593487	16.25673333	9.075573333
Bcl9	chr3:97008550-97020430	16.25663333	20.1066
Mrpl51	chr6:125142217-125144410	16.2556	15.28491667
Tmem164	chrX:139115942-139278037	16.2554	10.70767667
Ap2a2	chr7:148748078-148818910	16.24803333	20.80523333
Cd68	chr11:69477872-69479564	16.24173667	19.58018667
Zfp532	chr18:65739883-65849090	16.23793333	18.78476667
Surf1	chr2:26768897-26772050	16.23206667	23.11604667
Slc44a3	chr3:121162445-121235262	16.2296	34.0283
lws1	chr18:32227387-32263985	16.22883333	15.0455
Erich1	chr8:14027564-14090327	16.22826667	10.80786667
Lmbrd1	chr1:24685382-24823146	16.21976667	14.0411
Tctn3	chr19:40670935-40686705	16.21811	6.52796
Rnd3	chr2:50985958-51004631	16.20671667	35.2147
Rictor	chr15:6658380-6750400	16.2043	16.01396667
Mtif2	chr11:29426456-29445255	16.20396333	21.3286
Usp46	chr5:74396061-74464436	16.20216667	27.55566667
Slc20a2	chr8:23587171-23680088	16.20026667	14.45774333
Smad2	chr18:76401354-76471401	16.19476667	12.03324
Brpf1	chr6:113257190-113274698	16.1927	7.256836667
Mtmr4	chr11:87405718-87429798	16.18856667	21.95253333
Ddi2	chr4:141239477-141279334	16.18576667	11.93321333
Nfkbiz	chr16:55811489-55838754	16.1783	26.4988
Apex1	chr14:51544623-51546863	16.17306667	33.1211
Hgs	chr11:120328948-120345298	16.16372	6.689433333
Rep15	chr6:146981058-146982040	16.15572667	1.17758
1110028C15Rik	chr1:66765816-66864169	16.15266667	10.78050667
Tulp3	chr6:128271178-128305869	16.15143333	16.0527
lfih1	chr2:62433849-62484312	16.14760667	15.73105333
Batf	chr12:87027669-87050037	16.1426	4.37349
Nhlrc2	chr19:56622750-56673336	16.13776667	9.11821
Enoph1	chr5:100469012-100497784	16.13099333	10.00202333
Rdm1	chr11:101489262-101497395	16.12821667	4.320716667
Fam135a	chr1:24017596-24107180	16.12773333	15.41236667

Al463170	chr12:77647958-77648912	16.1252	14.87212333
Mllt1	chr17:57032033-57074811	16.11323333	14.46746667
Rnf214	chr9:45671773-45714960	16.10908	23.668
Prkd2	chr7:17428250-17455810	16.1063	12.26755
Ece1	chr4:137418151-137521144	16.10406	52.3072
Eed	chr7:97103163-97129486	16.10346	14.56463667
Qser1	chr2:104594953-104656853	16.0853	26.3596
Zfp398	chr6:47785659-47818256	16.0832	22.35685667
Dhx36	chr3:62272563-62310910	16.0816	11.55727
Fmr1	chrX:65931729-65971136	16.07493333	14.8841
Med12l	chr3:58810899-59122334	16.07426667	11.659
4930452B06Rik	chr14:9263685-9498804	16.07256667	12.2264
Cdc27	chr11:104363842-104411934	16.06775667	26.6772
Mtch2	chr2:90687311-90706791	16.06626667	17.4859
B3gat3	chr19:8994882-9001726	16.06213333	11.43264
Camsap2	chr1:138164699-138242681	16.06036667	17.73823333
Rnpep	chr1:137159275-137180661	16.059	12.58894333
Zfp62	chr11:49017001-49032318	16.05331333	12.92118
Xrn1	chr9:95855178-95953448	16.05173333	17.19317
Zc3h18	chr8:124900515-124941260	16.05083333	8.805236667
Ankrd13c	chr3:157610429-157669801	16.0399	16.3933
Gm10549	chr18:33623816-33634364	16.03430333	0.047116067
Camk1d	chr2:5214502-5635710	16.02576667	19.63503333
Sirt4	chr5:115928018-115934493	16.02546667	4.324653333
Cirh1a	chr8:109417539-109446994	16.02366333	12.7337
Mapk9	chr11:49660252-49699923	16.0236	17.60187333
Nploc4	chr11:120241111-120299014	16.02123333	16.86736667
Smc6	chr12:11272691-11326591	16.021	15.17298333
Pkn1	chr8:86193660-86223078	16.01026667	10.20676333
Rbbp4	chr4:128984343-129012614	16.00786667	23.35773333
Tufm	chr7:133630868-133634245	16.00282333	6.25635
Zfand2b	chr1:75165219-75168200	15.99006667	13.22115667
Dnttip1	chr2:164571514-164593719	15.97828333	5.742483333
Gm7367	chr11:116295526-116300345	15.97747667	9.943733333
Dcp1b	chr6:119125270-119171632	15.97003	9.63052
4932438A13Rik	chr3:36762027-36951955	15.96446667	16.8577
Bex2	chrX:132601103-132602775	15.96429	12.977888
Myg1	chr15:102162139-102168569	15.96256667	13.77666
Brms1l	chr12:56937352-56970722	15.9617	14.98086333
Mapk8ip3	chr17:25034450-25073922	15.95963333	15.4797
Flywch2	chr17:23913884-23923044	15.95534667	7.735223333
Ap3s2	chr7:87020210-87065526	15.95093333	15.70856667
Slc22a18	chr7:150659659-150685237	15.95043	6.257666667
Tnfrsf25	chr4:151490451-151494220	15.94823667	15.29386
2310001A20Rik	chr2:150408816-150434259	15.948	19.44944667
Nacc2	chr2:25911055-25978331	15.9383	5.348991
Ivd	chr2:118687735-118707093	15.9347	9.107893333
Acbd6	chr1:157405249-157534363	15.93063	16.96746667
Kcnh3	chr15:99055406-99073248	15.93023333	23.5038
Erc5	chr1:44204588-44238105	15.925	15.48616667
Kif21b	chr1:138027977-138074591	15.92256667	2.101646667
Pskh1	chr8:108424373-108455702	15.89859333	9.17753

Tom34	chr2:163879276-163896838	15.89523333	15.2832
Top2	chr1:43990851-44059816	15.88830667	25.93623333
6430548M08Rik	chr8:122638051-122689207	15.88786667	28.32466667
Arhgap21	chr2:20769545-20889348	15.8875	22.79143333
Dmx1	chr18:49992650-50125127	15.8854	18.31633333
Rbm45	chr2:76208040-76221824	15.88453333	13.30872967
Kctd20	chr17:29090160-29104882	15.88143333	9.358336667
Krt80	chr15:101180001-101200556	15.88090667	39.61293333
Nek9	chr12:86640463-86680312	15.88023333	15.17839333
Impa1	chr3:10313539-10331439	15.87876667	14.496
Ppid	chr3:79395310-79407572	15.8773	18.29380333
Mett14	chr3:123071212-123088908	15.87238667	12.24421667
Rhog	chr7:109387636-109398632	15.87220333	20.8249
Ppwd1	chr13:104995201-105018924	15.86143667	5.49081
Ddx10	chr9:52906558-53056217	15.84846667	13.1005
Rmi1	chr13:58503608-58512510	15.84771667	17.79861
AI846148	chr19:7430953-7457516	15.8463	16.33786
Wsb1	chr11:79052883-79068197	15.84524333	20.39496667
Snx13	chr12:35731860-35832149	15.84452667	19.51806667
Trim12c	chr7:111487267-111501872	15.83996667	7.606713333
Mrpl16	chr19:11844904-11849436	15.83966667	32.70966667
AI428936	chr7:31099834-31104064	15.83596667	21.45046667
Mrps7	chr11:115465464-115468938	15.83304667	29.72116667
1700019E19Rik	chr12:87423510-87503409	15.83188333	19.30645333
Lsm4	chr8:73197129-73202651	15.82596667	35.29636667
Tmem189	chr2:167468724-167487044	15.81846667	6.022566667
Rasa2	chr9:96439718-96531922	15.81832333	12.33623333
Zfp523	chr17:28314362-28342831	15.81730667	6.76478
Camta1	chr4:150433631-151235877	15.81656667	21.87223333
Pkp2	chr16:16213437-16272805	15.8146	15.32014667
Col4a3bp	chr13:97312689-97410122	15.8134	17.3778
Rpp38	chr2:3246220-3249900	15.80887333	9.699996667
Il18	chr9:50373472-50389942	15.80032	22.50775667
Wdr19	chr5:65590934-65651654	15.792	11.42081
Hmga1-rs1	chr17:27693597-27700616	15.77626667	43.96683333
Actl6a	chr3:32607467-32625893	15.7723	16.88936333
Polg2	chr11:106629517-106640851	15.77060667	13.12296667
Rn4.5s	chr6:47622224-47622398	15.76922	35.08816667
Mtmr10	chr7:71432555-71485692	15.76803333	23.137
Nsmce4a	chr7:137676039-137690895	15.76597333	11.67565333
Rabgef1	chr5:130647688-130690207	15.7551	11.17923667
Exd2	chr12:81564081-81599122	15.7412	23.73326667
Golga2	chr2:32143772-32163441	15.73893333	12.05531333
Gm12942	chr4:126803289-126806888	15.73322333	16.2797
Slc33a1	chr3:63746257-63768655	15.7321	8.069706667
Fam179b	chr12:66066728-66123560	15.72753333	14.27603667
BC024479	chr9:37296905-37331735	15.72633333	15.35981333
Rab40c	chr17:26019058-26056659	15.71372	5.171786667
Pcdhgb4	chr18:37880207-38001524	15.70856667	3.58112
Wdr7	chr18:63868348-64149413	15.7053	18.23026667
Bola1	chr3:96000510-96001509	15.70381667	14.53190667
Ndufa4l2	chr10:126951994-126954210	15.70288667	27.14088

Trove2	chr1:145597920-145624181	15.69433333	16.69676667
Prkrip1	chr5:136656226-136674824	15.688	18.9839466
2010016I18Rik	chr3:106284903-106288831	15.67876667	0.878966667
BC016423	chr13:3565280-3610354	15.6721	18.30013333
Ash2l	chr8:26927341-26958142	15.66623333	32.5694
4732416N19Rik	chr6:148160809-148184185	15.65845333	9.826536667
Spr	chr6:85083673-85087758	15.65474	6.352503333
Azin1	chr15:38417184-38449021	15.6542	29.99243333
Zfp322a	chr13:23444972-23461071	15.64943333	14.86913333
Gpn3	chr5:122822516-122832778	15.64893333	17.50737
Coro7	chr16:4626883-4679720	15.63173333	9.409883333
Cmpk2	chr12:27154079-27164702	15.62716667	10.12842667
Mapre3	chr5:31117128-31168479	15.62543333	24.93883333
3830406C13Rik	chr14:13116722-13135745	15.6199	11.46125
Mklin1	chr6:31348827-31459477	15.61953333	27.0115
Rrp7a	chr15:82946276-82953231	15.61931	16.05343
Ddhd1	chr14:46212848-46277818	15.6148	19.54943333
Gm16517	chr10:79132154-79138871	15.61247667	4.45212
Cpox	chr16:58670320-58680502	15.60383333	8.080703333
Sdccag3	chr2:26238319-26244836	15.6035	19.81503333
Fdps	chr3:88897509-88905889	15.59736667	16.9419
Airn	chr17:12934176-13052750	15.59592	22.35875
Pigz	chr16:31933936-31946132	15.59557333	5.981950667
Ppp1r11	chr17:37085299-37088737	15.58034667	13.15229
Ddx39	chr8:86239075-86247250	15.57367	17.19826667
Rn4.5s	chr6:47702750-47702924	15.57284333	35.90323333
Dera	chr6:137703097-137786393	15.57093333	13.69929333
Taf11	chr17:28038072-28044669	15.57017333	37.28143333
Ddx21	chr10:62042994-62065046	15.56546667	21.33946667
Ccdc90b	chr7:99709658-99730804	15.55173333	7.258713333
Zfp719	chr7:50834955-50849080	15.54833333	8.927383333
Trpm7	chr2:126617293-126701997	15.5382	17.95373333
Pank3	chr11:35582996-35604787	15.53283333	25.16556667
Eci1	chr17:24563627-24576261	15.53013	17.78328333
Ptpn23	chr9:110287592-110310714	15.5289	20.71857333
Arl13b	chr16:62793514-62846866	15.5284	13.36668667
Wdr48	chr9:119804012-119835697	15.52409333	18.80333333
Msl2	chr9:100978450-101007129	15.51366667	16.06866667
Gm9855	chr10:82092586-82113022	15.51136667	11.48043333
Alox8	chr11:68997386-69011341	15.50878667	2.600867667
Cmtm7	chr9:114665953-114691111	15.50303667	10.19324667
Ftsj3	chr11:106110457-106117116	15.4988	10.43164333
2310015A10Rik	chr12:81221532-81233831	15.48843333	4.05484
A130010J15Rik	chr1:194999662-195004026	15.48632	14.28088
Aqr	chr2:113926908-114001075	15.48064333	20.75733333
Smndc1	chr19:53453703-53465063	15.48008667	22.832
Ube2n	chr10:94977795-95008292	15.47807667	17.34216667
Cep120	chr18:53841376-53904201	15.47086667	8.092196667
Zfp516	chr18:83080270-83174706	15.46786667	7.707016667
Unc45a	chr7:87470178-87485105	15.46473333	12.56693333
Ascc2	chr11:4537795-4583388	15.45676667	27.0728
Mrps15	chr4:125724171-125732780	15.4553	20.8929

Exoc6	chr19:37624907-37757739	15.45493333	21.864
Mrps24	chr11:5603985-5607702	15.45459667	30.4978
Slc22a17	chr14:55525563-55531969	15.45416667	12.88600667
Timp3	chr10:85763156-85812250	15.45333333	23.8388
AA388235	chr17:34118436-34122303	15.44908333	9.512082
Tom1l1	chr11:90507004-90548915	15.43331	9.987706667
Gtf2ird1	chr5:134833530-134932586	15.42293333	19.97773333
Sh3d19	chr3:85888355-85934443	15.42253333	20.75706667
Grk6	chr13:55546694-55562288	15.42210667	14.18279333
Prickle3	chrX:7235658-7245312	15.41821333	13.74677
Vps4a	chr8:109555225-109569656	15.4174	7.883036667
Rundc3a	chr11:102254716-102264253	15.41166667	27.22393333
Asap2	chr12:21117616-21276032	15.40866667	21.90236667
2310003C23Rik	chr2:180447250-180453222	15.40596667	13.11975667
Parm1	chr5:91946725-92053022	15.4057	16.99333333
Xiap	chrX:39421012-39462841	15.40313333	14.03996667
Mbip	chr12:57429293-57446881	15.39882667	10.41299333
Traf3ip2	chr10:39332739-39375113	15.39096667	16.0272
Zmpste24	chr4:120731842-120770848	15.39073333	28.76026667
Ube2f	chr1:93146895-93182602	15.3874	14.18933333
Atic	chr1:71603729-71625977	15.3873	13.55875
Wdr41	chr13:95746302-95793269	15.37973	10.84562667
Tnfaip3	chr10:18720716-18735216	15.37963333	11.04877667
Trabd	chr15:88906493-88917505	15.37776667	14.91200667
Ube2g2	chr10:77085065-77108735	15.37543333	14.049
Ezh2	chr6:47480272-47545029	15.37253333	11.35119
Tnrc18	chr5:143200557-143579066	15.36733333	13.5557
Hibch	chr1:52901889-52977704	15.36669333	31.94256667
Insr	chr8:3150921-3279617	15.36593333	22.1013
Zbtb11	chr16:55973916-56009025	15.36493333	17.70953333
Cep57	chr9:13612231-13631551	15.36491	13.14515667
Gstp2	chr19:4040287-4042221	15.3638	12.08226667
Fam108b	chr19:21727798-21760127	15.3637	14.38613667
Rmnd5b	chr11:51437174-51449398	15.36203333	13.50940333
Gm5105	chr3:137711724-137730352	15.35713333	0.117028
Ppme1	chr7:107475246-107520406	15.35396667	16.84144333
Erc3	chr18:32399984-32429801	15.35054333	11.94866
Ptpn11	chr5:121580541-121641406	15.34983333	15.92057667
Cast	chr13:74831733-74945369	15.3492	18.63066667
Grb2	chr11:115505457-115569911	15.34293333	10.84949667
Cisd1	chr10:70793241-70807597	15.33886667	30.10416667
Zbtb8os	chr4:129013269-129024273	15.33743333	12.14292
E2f6	chr12:16817770-16833558	15.32815667	5.551316667
Mast2	chr4:115979366-116136788	15.32463333	10.65137667
Alg5	chr3:54539460-54553717	15.32060667	51.45196667
Cobra1	chr2:25055231-25067009	15.30983333	16.15046667
4933411K20Rik	chr8:47254909-47280944	15.30817	18.12313333
Inpp5k	chr11:75444521-75462367	15.30286667	16.42183333
Gopc	chr10:52056829-52101930	15.2998	16.17186667
Gm13498	chr2:50765203-50767366	15.29654	21.54496667
Plekha5	chr6:140372619-140543427	15.29643333	10.00202
Srprb	chr9:103090362-103104395	15.29466667	9.390503333

Samd1	chr8:86521570-86524285	15.29266667	14.23833333
Bcl7b	chr5:135644241-135657722	15.28713333	22.014
Dhx33	chr11:70797592-70817934	15.28213	8.308356667
Mxi1	chr19:53384995-53450300	15.27846667	18.52233333
Atp6v1g2	chr17:35373540-35375712	15.27313333	12.22436333
Serp2	chr14:76932618-76956696	15.26396667	0.37223
AI429214	chr8:38056628-38058587	15.26306667	5.702143333
Ltn1	chr16:87376895-87432851	15.26013333	16.41423333
2810046L04Rik	chr3:53267738-53285677	15.25969333	20.8987
Pcgf1	chr6:83028383-83030849	15.25886333	11.28093333
Itm2c	chr1:87791084-87805273	15.25813333	24.00693333
Marcks	chr10:36853048-36858732	15.25793333	21.21483333
Mpv17l	chr16:13940787-13949450	15.25716667	14.80247667
Amotl1	chr9:14346410-14419444	15.25203333	19.3203
Acap2	chr16:31092498-31201324	15.24536667	26.88546667
Sbno2	chr10:79519758-79565447	15.22332667	8.545593333
Lgals3	chr14:47993534-48005842	15.22184	33.72206667
Itgb1bp1	chr12:21275666-21292098	15.21821333	11.13417667
AW549877	chr15:3932034-3945752	15.21352667	17.31793333
Psmb10	chr8:108459627-108462292	15.20659667	2.341383333
Med28	chr5:45911467-45920523	15.20496667	11.78493333
	8-Sep chr11:117060974-117223639	15.20274333	29.02
Ppp4r1	chr17:66132694-66191266	15.19626667	13.77712333
Ppapdc1b	chr8:26830519-26835359	15.19253333	14.77018667
Lrch3	chr16:32914185-33016115	15.19246667	11.9148
Ikkip	chr10:90545783-90565358	15.19243333	8.002386667
Isg15	chr4:155573532-155574927	15.19074333	6.544181667
Fam96b	chr8:107163738-107165628	15.18881333	19.13888333
Rbm42	chr7:31426013-31435247	15.18846667	16.70299667
Pcdhga9	chr18:37896589-38001517	15.1844	4.256363333
Ptpmt1	chr2:90750869-90758207	15.17422667	13.48752667
Eid2b	chr7:29062724-29065148	15.17243333	3.58265
Tmem42	chr9:122930443-122932609	15.16456667	8.058896667
Zfp658	chr7:50817739-50830831	15.15615	2.970823333
Wdr35	chr12:8980806-9035653	15.15376667	10.66524333
Hmbox1	chr14:65441054-65568684	15.15163667	17.78733333
Nvl	chr1:183023553-183074288	15.14926	15.00062
Psmc3ip	chr11:100953454-100956749	15.14813333	12.87824333
Epha5	chr5:84483787-84846407	15.14776667	0.472569667
Cc2d1a	chr8:86656726-86671652	15.1461	23.8196
Sdhaf2	chr19:10575001-10599699	15.13497	4.28961
Brwd3	chrX:105937546-106029694	15.13083333	20.216
Eif2d	chr1:133049783-133070048	15.12794	10.46298
Gripap1	chrX:7367120-7397689	15.12043333	13.10983667
Ralb	chr1:121366881-121401359	15.1108	7.838809
Dnpep	chr1:75305139-75314212	15.10458667	8.693413333
Lipo1	chr19:33629770-33664801	15.10133333	6.047126667
Trim41	chr11:48619905-48630893	15.09953333	15.40253333
Zscan29	chr2:120983162-120996885	15.09853333	12.00322
Rps6ka2	chr17:7374463-7507664	15.0933	5.546576667
Cdv3	chr9:103255431-103268110	15.08968	26.2042
Tmed5	chr5:108550665-108561610	15.08811333	11.0331

Dsg3	chr18:20668804-20699811	15.0838	39.97323333
Atxn3	chr12:103157110-103196453	15.07926667	11.62531
Taf3	chr2:9836178-9970236	15.0758	6.300873333
Cdk10	chr8:125748740-125756156	15.0744	5.663853333
Mrps6	chr16:92058580-92112472	15.07333333	11.19494667
Zfp784	chr7:4986047-4990048	15.06960667	8.994063333
Glrx	chr13:75977333-75987599	15.06469333	23.51855
Ncbp1	chr4:46151382-46185274	15.06353333	19.08838
Imp4	chr1:34496673-34502592	15.06216667	31.8011
Plaa	chr4:94231829-94269938	15.0568	19.5167
Spcs2	chr7:106986078-107007393	15.05646667	22.58446667
Srgn	chr10:61957175-61970503	15.0454	1.920820333
Ogfod2	chr5:124562346-124565485	15.02938333	15.76531667
Eaf1	chr14:32308264-32323044	15.0286	13.68169333
Rn4.5s	chr6:47604919-47605093	15.00093	32.71253333
Zbtb7c	chr18:75979831-76308218	15.0007	19.0881
Prpf18	chr2:4543212-4573132	15.00033333	15.72580333
Spof1	chr2:130995996-131000546	14.9953	9.249766667
Sirt3	chr7:148049561-148068208	14.99170667	8.880829333
Arhgap32	chr9:31923720-32073096	14.98346667	34.99933333
Gyg	chr3:20021969-20054995	14.97276667	10.28984767
Qk	chr17:10399335-10512226	14.96763333	22.42683333
Taok2	chr7:134009190-134028481	14.96223333	22.97156667
Lrig2	chr3:104257905-104315779	14.96198333	10.73248
Thtpa	chr14:55713620-55717832	14.9596	11.86503333
Ocri	chrX:45265632-45319043	14.95726667	20.6449
Slc25a33	chr4:149118144-149148376	14.95660667	7.696347667
Dnajc24	chr2:105806864-105843706	14.95558	8.963853333
Cideb	chr14:56372891-56377261	14.95360667	0.82092967
Tomm20	chr8:129454563-129469821	14.9514	18.92176667
Acadsb	chr7:138554114-138589725	14.9464	17.11256667
Ckb	chr12:112907565-112910549	14.94480333	70.0461
LOC545261	chr18:61799306-61807157	14.93832667	41.98693333
Htr1b	chr9:81524998-81526159	14.93236	1.273423333
Golga1	chr2:38872022-38920926	14.92725333	10.56881
Armcx1	chrX:131252476-131256451	14.92662667	7.698556667
Magt1	chrX:103163423-103207238	14.91276	15.99039667
Mfap3l	chr8:63111656-63155528	14.91113333	15.05659333
Sppl3	chr5:115461532-115548799	14.90653333	23.8967
Mettl9	chr7:128177958-128220349	14.90606667	63.766
Gm15545	chr7:52242269-52249971	14.9013	20.25311333
ltsn1	chr16:91729615-91920824	14.90046667	12.72843333
Zfand2a	chr5:139947169-139960445	14.89147333	20.5584
Upf1	chr8:72855420-72877172	14.885	14.209
Snora43	chr2:26493366-26493505	14.88126667	14.69233333
Bphl	chr13:34129509-34165943	14.87746667	19.15493333
2810405K02Rik	chr4:154270538-154273152	14.86998	33.07033333
BC060267	chr6:115760746-115788430	14.86958333	7.12057
Atp6v1c2	chr12:17291526-17331536	14.86870667	17.93388
Ticam1	chr17:56408884-56416190	14.86390333	9.410276667
2610015P09Rik	chr16:43890014-43964427	14.86324	9.083596667
Ermp1	chr19:29684372-29722910	14.86256333	22.5319

Kpna3	chr14:61984022-62058784	14.8595	19.16056667
Alox5ap	chr5:150076633-150099623	14.85923333	0.522523333
N4bp2l2	chr5:151438547-151468187	14.85836667	10.41533667
Serinc2	chr4:129930740-129952830	14.85816	44.76363333
Ccdc23	chr4:118867914-118873903	14.85159	43.2553
Pacrgl	chr5:48763630-48779995	14.84310667	14.47971333
2410002F23Rik	chr7:51502091-51507689	14.8422	19.07056667
Stk35	chr2:129626252-129658021	14.83946667	12.68699333
Gas8	chr8:126042734-126060550	14.82655333	13.54547333
Rexo1	chr10:80003670-80024305	14.81714	8.580343333
Arnt2	chr7:91394788-91558469	14.81156667	2.258564
Zfp622	chr15:25914120-25928237	14.80967333	12.14496667
5830417I10Rik	chr3:88580978-88633293	14.8095	17.62146667
Pom121	chr5:135852009-135870416	14.80746667	24.3946
Chchd6	chr6:89333139-89545646	14.80707667	13.56783333
Tmem80	chr7:148514028-148523054	14.80001667	18.58931667
Ccdc90a	chr13:43633774-43655560	14.79956667	14.72715667
Txndc9	chr1:38040711-38054053	14.79486667	14.02516667
Thoc2	chrX:39148170-39265078	14.79121333	16.00353333
1600021P15Rik	chr16:28826261-28929784	14.78667	13.40646333
D630037F22Rik	chr10:55734099-55948495	14.7857	7.2417
Agfg1	chr1:82836057-82892850	14.77722333	9.003606667
Pbx2	chr17:34729415-34734286	14.77696	21.02713333
lpo7	chr7:117161938-117198628	14.77511333	26.8671
Mfap3	chr11:57332166-57347319	14.77233333	11.35501
D19Wsu162e	chr19:46673595-46731879	14.75806667	11.59777333
Maml1	chr11:50069136-50105838	14.75664667	10.36694
Polr1c	chr17:46380868-46384994	14.75330667	22.57667333
Birc3	chr9:7848700-7873170	14.75055333	7.38665
BC046331	chr4:153349669-153381334	14.74937	7.340686667
Ttll5	chr12:87165899-87394710	14.74856667	14.34413333
Ddhd2	chr8:26835795-26864752	14.7483	15.32406667
Tcte2	chr17:13853442-13898401	14.74823333	7.28184
Dmap1	chr4:117347290-117354830	14.74384333	9.993820667
2610005L07Rik	chr8:19981359-20020392	14.73804	6.084853333
Rps15a	chr7:125247889-125259661	14.73723333	29.40326667
Mbd5	chr2:48805027-49172589	14.7321	23.19326667
Homer1	chr13:94074449-94174917	14.72726333	13.32373333
Snx32	chr19:5495277-5510489	14.72426667	6.717786667
Zfp866	chr8:72285222-72298810	14.72301	7.09079
Kcnq1ot1	chr7:150399015-150482452	14.71273333	16.84156667
Coq9	chr8:97362316-97378795	14.7122	13.57843333
Snapc1	chr12:75065516-75085807	14.71056667	22.98538
Ablim2	chr5:36100528-36227628	14.69819667	11.01334
Nup153	chr13:46775270-46823218	14.6935	18.21153333
Fzd1	chr5:4753838-4758216	14.68273333	26.7109
Hexa	chr9:59387473-59412912	14.68081	9.08451
2610001J05Rik	chr6:13819073-13821483	14.68026667	33.1205
Rbm8a	chr3:96433850-96437714	14.67531667	13.45501
BC088983	chr8:59010318-59029363	14.67208	3.260837333
Gm20199	chr9:59325551-59329548	14.66568667	18.63785667
Dis3l	chr9:64154562-64189064	14.665	10.73874333

Rnf123	chr9:107954002-107981706	14.6614	11.84096667
Lztr1	chr16:17509063-17526423	14.64533333	7.980776667
Arih2	chr9:108505273-108551711	14.63991333	10.34335333
Rbbp5	chr1:134373943-134402242	14.6394	12.11478333
Tcf7l2	chr19:55816299-56008145	14.63203333	13.48289667
Rwdd1	chr10:33716360-33739422	14.6276	11.93159667
Snrpb	chr2:129997371-130005100	14.62247	29.68173333
2010320M18Rik	chr8:73300760-73301505	14.62149333	22.62932333
Mettl5	chr2:69709251-69723661	14.61713333	1.971893333
Pcdhga2	chr18:37828758-38001524	14.61070667	5.208534333
Zfp148	chr16:33380860-33503989	14.61006667	20.8685
Vps13d	chr4:144565039-144780495	14.6007	14.65016667
Phf20	chr2:156022382-156135689	14.5976	9.533616667
N4bp1	chr8:89365037-89409157	14.58736667	21.34943333
Avpi1	chr19:42197764-42203483	14.58497667	33.16846667
Tor1b	chr2:30808520-30814535	14.58299	15.9011
2010300C02Rik	chr1:37668520-37776656	14.5796	6.023956667
Csrnp1	chr9:119880283-119893776	14.57944	12.03562667
Def6	chr17:28344722-28365553	14.57397333	9.429513333
Fbxo45	chr16:32230197-32247111	14.5716	12.05516667
Igf1	chr10:87321800-87399792	14.56931667	2.640929333
Nbas	chr12:13275932-13590617	14.56763333	7.41809
Pcif1	chr2:164704867-164716937	14.56113333	9.04818
C530005A16Rik	chr4:116262337-116270235	14.55232	4.501486667
Cpne8	chr15:90317911-90509819	14.55191333	8.659366667
Aamp	chr1:74326413-74331312	14.54936333	21.47236667
Rab33b	chr3:51287887-51300134	14.54896667	6.594786667
Nsa2	chr13:97899381-97907881	14.53953333	15.74650667
Dhx57	chr17:80637643-80689816	14.53896667	14.69476667
Triap1	chr5:115791255-115793561	14.52365667	22.41703333
Siah2	chr3:58478870-58496310	14.50807333	17.48125
Metap1d	chr2:71291394-71363248	14.50777333	32.59426667
Snrpa1	chr7:73205221-73219473	14.5009	10.69030667
Ccdc101	chr7:133792822-133816293	14.4931	14.39945
Setd1a	chr7:134920902-134943633	14.49098333	16.53283333
Atp8b1	chr18:64688632-64820654	14.49053333	31.25353333
Gm20257	chr1:58709484-58712675	14.48893667	4.920258333
Stim1	chr7:109416337-109585369	14.48843333	13.13901
Appl1	chr14:27732173-27783737	14.4883	12.78132333
Rassf3	chr10:120847406-120913306	14.48642667	16.80753333
Ccs	chr19:4825365-4839322	14.48594	10.76076
Adar	chr3:89518943-89557377	14.48443	11.96748667
Mtfr1	chr3:19087328-19120817	14.48253333	27.40383333
Psrc1	chr3:108186721-108191149	14.48236667	1.113433333
Derl1	chr15:57701056-57723973	14.48046667	18.04053333
Txndc12	chr4:108507282-108534724	14.4756	7.619978333
Exosc9	chr3:36451527-36464649	14.47303667	9.282513333
Crnk1l	chr2:145743217-145760436	14.4628	10.33125
Dhx8	chr11:101594269-101628671	14.46256667	5.071693333
Rnf2	chr1:153316535-153347953	14.46196667	14.8323
Sgsm2	chr11:74662765-74710582	14.46143333	16.65043333
Slc38a10	chr11:119965264-120012665	14.46038	18.63312667

Hnrnpa1	chr15:103070862-103075386	14.45344667	17.36597667
Cox4nb	chr8:123177813-123192012	14.45165333	10.47022667
Adpgk	chr9:59139378-59164007	14.45096667	19.70122333
Ap1b1	chr11:4847523-4942797	14.44969	22.8456
5031434O11Rik	chr3:51363678-51371038	14.44921	5.360659
Mier1	chr4:102787069-102838354	14.4487	12.61639
Narg2	chr9:69245804-69280881	14.44464	28.412
Rnpc3	chr3:113307984-113333067	14.43986667	10.24435
Pwp1	chr10:85334575-85351848	14.43473333	24.51893333
Arl4a	chr12:40759877-40764574	14.43163333	17.90013667
Tmx2	chr2:84511473-84518204	14.42114	21.15463333
Eif2b5	chr16:20498889-20509398	14.4187	12.13439667
Podxl2	chr6:88792551-88824038	14.41805	27.3245
Dgcr14	chr16:17900801-17911441	14.41409	2.295744
ldh1	chr1:65205189-65233053	14.4121	20.47564667
Gm14325	chr2:177563695-177575023	14.41176667	4.736543333
Mlx	chr11:100948603-100953521	14.41113	24.98307333
Arfrp1	chr2:181092394-181100109	14.40783333	14.86493333
Irs1	chr1:82229679-82288014	14.40308	0.704573
Mal	chr2:127458961-127482431	14.39985667	13.79978527
Sh3bgrl2	chr9:83441944-83493898	14.3803	14.57028333
Selenbp1	chr3:94737004-94748680	14.37993667	53.9661
Mrpl23	chr7:149719021-149726647	14.37746667	12.96613667
Man1a2	chr3:100366126-100489396	14.37546667	18.87323333
Znhit6	chr3:145239171-145268209	14.37423333	9.53165
Entpd2	chr2:25251393-25256843	14.36833333	13.88018333
Btbd3	chr2:138082319-138113158	14.36806667	26.43016667
Gm3258	chr10:31133531-31134241	14.36633333	33.64273333
Nomo1	chr7:53289065-53339582	14.35773333	20.35453333
Trim37	chr11:86940578-87034184	14.35466667	13.24952
Papss2	chr19:32670204-32741677	14.35276667	4.243696667
Gpr87	chr3:58982844-58984007	14.34884333	36.15143333
Mgat3	chr15:80004150-80045949	14.34163333	30.09356667
Bivm	chr1:44176812-44201616	14.33652333	10.16525
Ddx19a	chr8:113498890-113521723	14.33643	9.57537
Fxyd5	chr7:31817741-31827341	14.33415667	4.99464
Cdc42se2	chr11:54530916-54601205	14.32708667	23.30623333
Nudt9	chr5:104476029-104494386	14.32562	18.89318
Ccdc15	chr9:37083419-37155977	14.32096333	6.98553
Th	chr7:150078680-150085871	14.31856667	5.26742
Cdk8	chr5:147043250-147114450	14.31851333	19.77063333
Pak1	chr7:104991448-105060891	14.31764333	30.75986667
Ankrd49	chr9:14584641-14587408	14.29936333	16.12802667
Mnt	chr11:74644425-74659227	14.29596667	8.162173333
Gmfb	chr14:47427823-47441917	14.29361333	22.2765
Rap2c	chrX:48357090-48371195	14.29092	22.80156667
lffo1	chr6:125095258-125111800	14.29030667	0.7185973
Ing1	chr8:11556065-11563250	14.2887	26.6113
Csrp1	chr1:137625773-137648806	14.28660667	62.80166667
Rpa3	chr6:8205935-8209141	14.28063333	4.400296667
Nck2	chr1:43502595-43627363	14.28056667	9.331543333
Fes	chr7:87522643-87532832	14.28006333	8.950426667

Macc1	chr12:120681882-120705405	14.2782	14.96806667
Epn2	chr11:61330750-61393189	14.27803333	15.05133333
Npnt	chr3:132545658-132613255	14.2746	24.3943
Arsb	chr13:94541633-94712971	14.27453333	16.2844
Erlec1	chr11:30829783-30854131	14.273	20.4357
5430437P03Rik	chr8:73920753-73928671	14.26261667	7.24206667
Vva5a	chr9:38525852-38550922	14.26043333	8.774816667
Lrrc1	chr9:77278629-77392659	14.25650667	9.067753333
Dedd	chr1:173259275-173272632	14.25578333	12.52846667
Cnot10	chr9:114494991-114549318	14.2547	6.97107
Snora78	chr17:24856620-24856777	14.2538	4.2501
Ddah2	chr17:35195979-35199044	14.25242333	14.37624333
Zbtb41	chr1:141318959-141349584	14.25023333	20.5305
Eftud2	chr11:102699785-102742289	14.24896667	11.13968333
Chrac1	chr15:72920841-72924505	14.24837	26.81296667
Dgkh	chr14:78969415-79124896	14.2471	8.07645
Foxk1	chr5:142877450-142937969	14.23026667	18.29063333
Pgrmc2	chr3:40870247-40886968	14.22726333	14.48290667
Pex6	chr17:46848411-46862490	14.22419667	8.02644
Xab2	chr8:3610089-3621296	14.22332	11.10199
Rsl24d1	chr9:72961275-72971140	14.22040333	13.94085
Dnajb12	chr10:59342338-59360764	14.21036667	17.09756667
Acat1	chr9:53388626-53418455	14.20915	19.1006
Arc	chr15:74499512-74503000	14.18989667	23.54173333
Tnfsf10	chr3:27215998-27238587	14.18688	16.00713
Add3	chr19:53214934-53321889	14.17034333	12.30373333
Klh7	chr5:23606407-23667049	14.15916	24.8848
Mynn	chr3:30501008-30517416	14.1501	16.37978667
Bbs1	chr19:4886881-4906627	14.1466	8.988063333
Ptch1	chr13:63612840-63666828	14.14644	22.4164
Sox21	chr14:118632455-118636252	14.14529	22.0647
4933421E11Rik	chr3:106487904-106539494	14.14290333	4.96586
Zswim7	chr11:62080725-62094897	14.14108333	6.718366667
Fgf9	chr14:58691522-58731557	14.1382	6.47727
Trib3	chr2:152163160-152169796	14.13738667	0.085325867
Rabl2	chr15:89412957-89422354	14.1314	13.07781333
Tnni3	chr7:4469909-4474045	14.12544	77.74463333
Ubfd1	chr7:129210711-129225713	14.12313333	11.86348333
Phactr2	chr10:12927522-13194202	14.12123333	17.72089
Zfp512	chr5:31754808-31784126	14.10846667	15.19573333
Zbtb44	chr9:30838228-30883470	14.10228	25.3043
Yipf5	chr18:40364518-40379053	14.0969	24.0728
Dusp7	chr9:106270962-106278054	14.09367667	19.82074
Arhgap17	chr7:130422662-130513429	14.0891	14.11663333
Pcgf6	chr19:47108108-47125335	14.08663333	9.956186667
Serf1	chr13:100877973-100884188	14.08036667	22.96126667
Sec13	chr6:113678045-113690675	14.07736667	17.45533333
0610009L18Rik	chr11:120209991-120212504	14.06993	9.53456
Ubr7	chr12:103996184-104015911	14.06625667	9.593453333
Zfp617	chr8:74446723-74458529	14.06372	14.63986667
Gm5741	chr8:87591466-87591881	14.05866667	15.82586667
2210417K05Rik	chr10:61803354-61812614	14.05782667	17.433

Mrps27	chr13:100114740-100185516	14.05747667	5.64604
Cdh11	chr8:105156894-105309011	14.05251667	85.2265
Shroom2	chrX:149044051-149204004	14.0453	15.0979
lbtck	chr9:85580966-85642941	14.04521	15.21838667
Fam172a	chr13:77847950-78305501	14.03948	14.61546667
Exph5	chr9:53109774-53189263	14.03316667	19.22603333
5730403B10Rik	chr16:4765460-4789935	14.0317	15.91946667
Krit1	chr5:3803164-3844515	14.03026667	13.43546667
2210009G21Rik	chr2:136716953-136895514	14.02953333	12.29436667
Actr10	chr12:72038843-72065704	14.02932333	10.89102667
Pnpt1	chr11:29030750-29061828	14.02774667	15.93573333
Arl1	chr10:88194158-88205947	14.02573	17.79336667
Glt25d1	chr8:74134922-74148810	14.02487	33.8918
BC027231	chr16:44724413-44737397	14.01833333	8.639593333
Dusp8	chr7:149265391-149281189	14.00926667	11.23078333
Gmps	chr3:63780064-63823000	14.00792333	20.13068
Map2k4	chr11:65501745-65601799	14.00766667	19.84806667
2010011I20Rik	chr2:172171076-172181249	14.00696667	18.0572
Slc9a1	chr4:132925686-132979613	14.0001	14.00026667
Igf2r	chr17:12875271-12962572	13.99306667	14.78656667
Mavs	chr2:131059798-131073760	13.98741667	20.8972
Cog1	chr11:113510842-113523715	13.98223333	16.05633
Gja1	chr10:56097105-56110225	13.98037	45.80613333
Btbd9	chr17:30352468-30713232	13.9731	13.55346667
Taf1b	chr12:25183445-25243436	13.9652	10.04597667
Otud6b	chr4:14736651-14753734	13.96503333	11.63701667
Rab15	chr12:77898949-77923511	13.9623	22.4199
Prr12	chr7:52283076-52308251	13.96100667	9.609603333
Kcnrg	chr14:62226293-62231670	13.95969333	30.55263333
1700113A16Rik	chr3:87975481-87981707	13.94966	13.14484
Cep110	chr2:34965011-35034342	13.94586667	9.319836667
Slc25a28	chr19:43738291-43749371	13.94466667	19.32366667
Trappc10	chr10:77649470-77707387	13.93196667	22.13903333
Arl16	chr11:120325639-120328914	13.92934333	11.84707667
Uck2	chr1:169156216-169215258	13.92834	15.31263333
Sp2	chr11:96814651-96839002	13.92439667	17.0103
Med31	chr11:72025225-72029094	13.92111	9.737193333
Il33	chr19:29999603-30035205	13.91987667	1.756392167
Dscaml1	chr9:45238375-45561796	13.91853333	1.3302092
Tesk1	chr4:43455148-43460947	13.91783333	7.827273333
Slc35d1	chr4:102844322-102887489	13.91683333	17.55696667
Stim2	chr5:54389761-54512296	13.9136	15.70672667
Hist2h2bb	chr3:96073622-96074115	13.91290333	4.00342
Pim2	chrX:7455431-7460558	13.90794667	23.4744
Zfp873	chr10:81510871-81524331	13.90608333	10.27756
Zxdc	chr6:90319487-90353480	13.90076667	18.26686667
Dot1l	chr10:80217950-80257092	13.89833333	8.806423333
Ngrn	chr7:87406100-87410264	13.89373	9.84961
Adrm1	chr2:179906292-179910988	13.89303	14.25066667
Ube3c	chr5:29895781-30002617	13.88953333	20.82143333
Fam40a	chr3:107415449-107434628	13.88346667	17.52115333
1700092M07Rik	chr19:8815207-8815715	13.88315	0

Mex3c	chr18:73732358-73752232	13.87304	13.50212333
Tomm70a	chr16:57121826-57154643	13.87276667	23.13746667
Ttc33	chr15:5135559-5168332	13.86975333	9.283536667
Fam84b	chr15:60650550-60656635	13.86891667	12.13664
Luzp1	chr4:136025675-136105233	13.86246667	21.88743333
Tubgcp4	chr2:120996941-121022854	13.86049	13.90628333
Smok4a	chr17:13714321-13721300	13.85726667	2.983436667
Ss18l1	chr2:179777187-179804906	13.85286667	17.84876667
Tmem205	chr9:21725452-21731979	13.84697667	10.61922667
Afg3l2	chr18:67564417-67608790	13.84483333	19.7368
4930563F08Rik	chr5:132356138-132359638	13.83568	6.005003333
Cyp2j9	chr4:96235119-96258176	13.83516667	3.978613333
Atp13a1	chr8:72315061-72331647	13.82626667	15.29076667
Top3b	chr16:16870983-16893079	13.82616333	16.03423333
Lamb2	chr9:108382192-108392861	13.82476667	24.1133
Msra	chr14:64741457-65074740	13.82398667	1.426009667
S100a16	chr3:90345144-90347073	13.81877333	75.6433
4930579K19Rik	chr9:98462878-98464030	13.8176	1.215976333
Slc7a6os	chr8:108724337-108734833	13.80935333	12.55616667
Papd5	chr8:90723111-90783621	13.8045	16.8608
Tspan14	chr14:41719732-41780096	13.79823	30.93056667
Sfswap	chr5:130007105-130077259	13.79573333	10.66897
Stx17	chr4:48137790-48199378	13.79449333	9.591316667
Anks3	chr16:4941419-4964330	13.79239333	4.48945
Pvr	chr7:20488926-20506492	13.79130667	4.88152
Uhrf1bp1l	chr10:89207735-89282614	13.78056667	22.00733333
Zfp672	chr11:58128615-58143841	13.77956667	12.14713333
Thap7	chr16:17528074-17531145	13.77429	16.67181
Gjb2	chr14:57717438-57723539	13.7679	35.26606667
Rpl30	chr15:34370262-34373031	13.7661	16.23522667
Gm5512	chr19:12979720-12981475	13.76559	13.38754333
Nit2	chr16:57156777-57167445	13.76077	3.709506667
Npc2	chr12:86095508-86114062	13.75606333	19.1205
Kdsr	chr1:108616986-108656319	13.75526667	15.31700333
Pycard	chr7:135134886-135137381	13.75069	29.40063333
Pi4k2a	chr19:42164924-42196708	13.75032333	12.43712667
Zgpat	chr2:181099635-181115498	13.74936333	7.672366667
Stxbp5	chr10:9475344-9620838	13.7453	18.1416
Hiatl1	chr13:65166337-65214290	13.73683333	10.57281333
Sesn1	chr10:41530379-41628242	13.73273333	10.97000333
Cstf2	chrX:130593887-130621360	13.73066667	23.7664
Pcdhga11	chr18:37915426-38001526	13.72870667	5.158246667
Fbxo44	chr4:147526908-147534173	13.71603333	8.17157
Pmepa1	chr2:173049965-173102034	13.71343333	13.86296667
Eri1	chr8:36528318-36558587	13.7117	21.13096667
Ireb2	chr9:54711561-54760341	13.70474667	17.3503
Wars	chr12:110098239-110132384	13.70446667	23.9279
Sesn2	chr4:132048721-132066371	13.69897333	9.207723333
Ica1	chr6:8580526-8728484	13.69598	4.296812333
Mbd1	chr18:74427941-74442338	13.69439333	4.92638
Usp21	chr1:173212083-173218092	13.69361333	10.66110667
Ptger1	chr8:86190538-86194002	13.6924	22.676

Sys1	chr2:164286470-164291010	13.69095	16.38463333
Mlxip	chr5:123844827-123907940	13.68976667	31.09533333
2310008H09Rik	chr7:125985731-125999512	13.68683333	21.49096667
Mrps2	chr2:28323585-28326697	13.68530667	8.815403333
Mrpl37	chr4:106728478-106739471	13.67996	15.59608
Mrpl3	chr9:104955597-104979806	13.67748333	3.75958
Mcoln3	chr3:145784754-145803610	13.67243333	0.3633591
Thap2	chr10:114807021-114821491	13.6685	8.766613333
Hs3st3a1	chr11:64248833-64336337	13.66763667	8.893906667
Thoc5	chr11:4795345-4828868	13.66460333	11.15895333
A930004D18Rik	chr2:17946815-17959368	13.66213333	1.593189333
Tjp3	chr10:80735944-80754012	13.65848	13.34996
Gm5478	chr15:101473450-101477811	13.65599	27.62296667
Snrpb2	chr2:142888804-142897788	13.65540333	20.3701
Zcchc11	chr4:108132030-108232020	13.64003333	14.79663333
Stard3nl	chr13:19449544-19487621	13.63833	22.782
Pofut2	chr10:76722044-76732331	13.63663333	9.971976667
Card6	chr15:5047438-5058533	13.63582333	6.001963333
Mterfd1	chr13:67013033-67034008	13.63459667	11.15928667
Ctr9	chr7:118172464-118199891	13.61986667	17.17431
Raph1	chr1:60540028-60623609	13.6138	12.51373
Hopx	chr5:77516010-77544148	13.61290333	32.92853333
Rfc2	chr5:135058559-135074198	13.6116	15.84630333
Map2k3	chr11:60745558-60766305	13.6088	18.0287
Mitd1	chr1:37935734-37947256	13.60876667	4.237206667
Erc1	chr7:19930419-19941873	13.60793333	10.20795333
Adprh	chr16:38445478-38452769	13.60765333	16.15382333
Zfp605	chr5:110539110-110558813	13.60709	4.879496667
6530439I21	chr1:138024295-138027760	13.59848	0.144421667
Rfc5	chr5:117829153-117839032	13.59072	0.999369667
Aak1	chr6:86799510-86953221	13.58591667	9.99014
Ugp2	chr11:21221144-21270882	13.58453333	15.10753333
Bsl2	chr19:8911956-8923173	13.58381333	17.47066667
Sugt1	chr14:79987497-80029562	13.58323333	10.06805667
Fam164a	chr3:7503425-7553848	13.57756667	11.49743333
Slc36a1	chr11:55017841-55049832	13.57099333	9.60246
D6Wsu163e	chr6:126889983-126925722	13.56936667	6.362343333
Glcc1	chr6:8459595-8547548	13.56798667	3.342766667
Pcdhgb2	chr18:37849512-38001526	13.56739667	4.090323333
Prkc2	chr4:154634228-154735500	13.56463333	9.612133333
Tsen15	chr1:154217865-154233812	13.56281667	7.39423
Btaf1	chr19:37000568-37088547	13.55963333	14.8173
Gss	chr2:155388918-155418442	13.5551	21.55733333
Rcan1	chr16:92392197-92466391	13.55333667	6.884366667
Mgat4b	chr11:50038836-50048605	13.55132	40.4754
Spata2	chr2:167306635-167318374	13.55036667	15.4866
Lrrc41	chr4:115748069-115769648	13.54947333	25.88336667
Orc6	chr8:87823530-87832178	13.54718333	10.34473667
3110043O21Rik	chr4:35138530-35173129	13.54615333	12.59974
Nans	chr4:46502200-46516310	13.54239333	6.13972
Rela	chr19:5637489-5648130	13.54142	16.14799333
Agbl5	chr5:31191224-31209039	13.54054333	12.24835667

Fem1c	chr18:46664259-46685625	13.53526667	14.08870667
Prrc1	chr18:57514386-57552373	13.53523333	13.57036667
Rpl34-ps1	chr3:130429754-130433247	13.53163705	5.527457401
Arfip2	chr7:112782714-112788930	13.52099	10.56758667
Dus3l	chr17:56904173-56909516	13.5207	10.15085667
Agpat3	chr10:77734307-77814445	13.51579667	18.32593333
Gm16973	chr14:57315111-57319837	13.50906	10.86470667
Lyplal1	chr1:187911610-187941189	13.50682333	38.14353333
Pnpla8	chr12:45370140-45414422	13.5044	15.12406333
Bfar	chr16:13671950-13703705	13.50157	11.54676667
Ldoc1	chrX:58962790-58964125	13.50141333	0.35886
Krr1	chr10:111409750-111425486	13.49402	11.35685333
Acs1	chr8:47556395-47621404	13.4921	36.46566667
Rbm33	chr5:28643728-28745782	13.4886	17.22686667
Hmgb3	chrX:68809167-68813829	13.48813	21.997
Ncapd3	chr9:26837759-26902900	13.48683333	7.451703333
Tmem67	chr4:11966503-12015104	13.48590667	21.44372667
Zbtb1	chr12:77471252-77489734	13.48476667	11.1543
Rgl2	chr17:34066838-34074632	13.47878	19.34263333
Mrps35	chr6:146991291-147019424	13.47810333	8.138272667
Ddx19b	chr8:113527085-113555651	13.45662333	11.9763
Aatf	chr11:84236357-84327003	13.44756	18.57856667
Zc3h6	chr2:128793137-128844299	13.44653333	4.527416667
Terf2ip	chr8:114535258-114544428	13.44147667	12.50431667
Acvr1b	chr15:101004555-101043032	13.43915	15.0664
Zdhhc6	chr19:55372788-55390522	13.43667333	16.98053333
Necap2	chr4:140622426-140634260	13.43341333	12.74622667
Myst2	chr11:95133166-95171560	13.42909	16.61523333
Pmvk	chr3:89263039-89272931	13.42646333	17.16354333
Dnajc14	chr10:128242731-128256502	13.42607333	12.52425333
1110008L16Rik	chr12:56403623-56483478	13.42538	27.78635333
Qpctl	chr7:19725565-19734545	13.42316667	11.31149
Stk30	chr12:112046007-112079149	13.41716667	8.123726667
Tdrd3	chr14:87816389-87945315	13.41601333	21.89683333
Ssh1	chr5:114392227-114443766	13.4149	2.305737667
Eya3	chr4:132194960-132280678	13.41452667	13.41515333
Gm14326	chr2:177677315-177691994	13.41083333	6.022413333
Lrch1	chr14:75154479-75347684	13.40886667	8.716183333
Gpr89	chr3:96674988-96709221	13.39956333	8.204946667
Fkbp9	chr6:56782052-56829354	13.3991	12.29685333
Mn1	chr5:111847185-111886045	13.39506667	8.765943333
Dennd2d	chr3:106285348-106303972	13.39371667	5.659456667
Gpd2	chr2:57090088-57223130	13.38886667	14.20993333
Slc35a4	chr18:36838868-36843516	13.38724	15.87696667
Mid2	chrX:137212566-137302254	13.38676667	20.65566667
Zfp64	chr2:168750860-168781087	13.3851	12.58139667
Setdb1	chr3:95127446-95161124	13.38323667	19.31636667
Pxmp3	chr3:5560187-5576239	13.37662333	9.61914
Pycl	chr15:75746892-75751990	13.37596667	10.50613333
Ldlrad3	chr2:101790357-102026534	13.37334667	23.18046667
Stk16	chr1:75207403-75212181	13.37203333	12.84344333
Pdcl	chr2:37205593-37214852	13.37071	13.6495

D330041H03Rik	chr17:24546425-24551458	13.36881667	13.86554333
BC031781	chr1:182781281-182798245	13.36014333	17.1947
Terf1	chr1:15795738-15833510	13.35721333	13.16942333
Wdr59	chr8:113972683-114046007	13.35703333	10.05551
Chd3	chr11:69157852-69182893	13.35613333	17.64660667
Rnf32	chr5:29524545-29551831	13.35227	10.65155333
Cln6	chr9:62686593-62699809	13.34864667	7.673733333
BC018507	chr13:70727566-70776512	13.34763333	13.7848
B4galt1	chr4:40751634-40801031	13.34637333	12.62188
Tfap2a	chr13:40811043-40829192	13.34633333	19.56946667
Lpp	chr16:24393435-24992664	13.34597667	24.8183
Cyp51	chr5:4080673-4104697	13.33928	32.92703333
Ggh	chr4:19969198-19993258	13.3363	44.99756667
Ptpn12	chr5:20492462-20561615	13.3291	24.41626667
Gpx2-ps1	chr7:107413053-107414071	13.32627333	12.18582667
Myo5a	chr9:74919012-75071494	13.32243333	11.10206333
Pknox1	chr17:31701717-31744638	13.32125	8.27815
Zrsr1	chr11:22872004-22876496	13.31672333	8.188323333
Trak2	chr1:58957293-59030326	13.31500333	20.7233
Mrpl19	chr6:81907839-81915943	13.30703333	10.11574
Fbxl4	chr4:22284711-22361193	13.29378333	7.18321
Cln4-2	chr7:7235026-7252222	13.29263333	19.2545
Pcbp3	chr10:76224598-76424692	13.28994	5.455616667
Tmem184a	chr5:140280905-140290237	13.28466667	46.222
Glul	chr1:155747074-155756844	13.28447333	24.6775
Tbl1xr1	chr3:21975573-22115516	13.28296667	15.41246667
Praf2	chrX:7305696-7308189	13.27714333	16.17951667
Fam168a	chr7:107855215-107990144	13.2752	17.59403333
Abcc5	chr16:20331376-20426467	13.27419	7.758616667
Rora	chr9:68501608-69226835	13.2735	15.35264
Timm23	chr14:32993351-33015077	13.2712	22.741
Slc2a4rg-ps	chr2:181118954-181122301	13.2672	8.468883333
Slc39a7	chr17:34165210-34168635	13.2665	16.98226667
Alg3	chr16:20605530-20610822	13.26613333	25.96996667
Ap4s1	chr12:52791952-52839926	13.25831333	19.74473333
Naa30	chr14:49791901-49810706	13.25778333	7.80464
Rn4.5s	chr6:47626562-47626736	13.24826	38.16526667
Hddc2	chr10:31033210-31047892	13.24688667	19.9491
Fam63a	chr3:95086856-95100086	13.24303333	28.9215
Mospd1	chrX:50698197-50723669	13.24183333	13.84833333
Cdyl	chr13:35751730-35965933	13.23657667	3.2767
Cbfa2t3	chr8:125149035-125223009	13.23604667	16.55253333
Csrnp3	chr2:65683823-65869603	13.23483333	7.169703333
Mrpl46	chr7:85920226-85927975	13.23470667	9.169056667
Itgb4	chr11:115836038-115869725	13.23181667	29.23893333
Ttc8	chr12:100158783-100221448	13.23146333	10.94912333
N6amt2	chr14:58168434-58190406	13.22466333	15.47288333
1110067D22Rik	chr11:20723357-20731111	13.21733333	37.27516667
Parva	chr7:119571219-119735202	13.21394667	25.4919
Adrbk1	chr19:4286000-4305955	13.2139	11.00786333
Alyref2	chr1:173433608-173434881	13.20837667	1.572893333
Zfp236	chr18:82762988-82862126	13.20671667	7.676496667

Stard10	chr7:108469832-108494826	13.20528667	23.64162667
Spred2	chr11:19824444-19922600	13.19843333	14.23241
Stk3	chr15:34805253-35085561	13.1934	13.09093
2300009A05Rik	chr9:63242253-63247051	13.18823333	22.59096333
Ablim1	chr19:57107753-57290522	13.18673333	25.7397
Map3k4	chr17:12420486-12511526	13.18572333	11.45811667
Pcdhga4	chr18:37845053-38001524	13.18449667	1.732405333
Nipal2	chr15:34502553-34608461	13.18094333	45.462
0610037L13Rik	chr4:107562503-107570407	13.17655667	23.56873333
Rhoc	chr3:104591951-104597377	13.17622	0.562185667
Tubg2	chr11:101017197-101023101	13.17303	18.22436667
Hibadh	chr6:52496223-52590294	13.17240333	18.55072667
Pdhx	chr2:102861212-102913670	13.17172333	4.458966667
Derl2	chr11:70820946-70832765	13.17057333	15.61476667
Ncf2	chr1:154655019-154684120	13.16696333	2.653585333
Gfm1	chr3:67234036-67278990	13.16463667	16.63443333
Eif3j	chr2:121854358-121879365	13.16112333	20.6729
Josd2	chr7:51723349-51727028	13.16026	12.05035933
Nup43	chr10:7387301-7398684	13.15959333	16.02379333
Ptpla	chr2:13948457-13977662	13.15813	3.087847667
Pcdhgc5	chr18:37979199-38001526	13.1505	3.366237667
Phka2	chrX:156940097-157036810	13.15003333	10.95497333
Tmem138	chr19:10645374-10651587	13.14712	11.31473333
Ppfibp2	chr7:114738564-114892097	13.14693667	13.9604
Atxn1l	chr8:112250350-112261639	13.14606667	9.299533333
Cyp4f13	chr17:33061632-33084306	13.14566667	7.616636667
4930515G01Rik	chr5:115223741-115224992	13.14366	1.170771
Dip2c	chr13:9275770-9668172	13.14255	11.41833333
Ctdp1	chr18:80604697-80666406	13.14083333	10.54582
1700007K13Rik	chr2:28317520-28321844	13.14060333	1.87159
Dab1	chr4:104040164-104417447	13.13862333	4.698413467
2810422J05Rik	chr8:73037294-73047079	13.13701333	23.6556
Hdac4	chr1:93829331-94044970	13.13156	14.42242667
Dhrs7	chr12:73751339-73765815	13.13144333	4.351176667
Rest	chr5:77694518-77712722	13.1282	17.487
Zfp146	chr7:30946286-30954746	13.12054	16.78370667
Inpp5e	chr2:26251768-26264708	13.11661333	12.76763333
Snhg7	chr2:26492695-26495764	13.11623333	26.48046667
Mak16	chr8:32269939-32279196	13.10991333	19.92316667
Klf13	chr7:71031236-71083801	13.10749	12.80446667
Rundc1	chr11:101286398-101296979	13.10682667	11.01258333
Rnf126	chr10:79221259-79229697	13.10643	15.53626
Nfia	chr4:97248633-97785567	13.10563333	10.35262667
Fam120c	chrX:147778765-147908677	13.1034	9.724213333
Cdc40	chr10:40551426-40602949	13.09396667	11.6807
Ppp1r3e	chr14:55494433-55496375	13.09275333	8.493213333
Uimc1	chr13:55129240-55201656	13.0854	13.95056
Cars2	chr8:11514016-11550771	13.07880667	7.928216667
Herc4	chr10:62706544-62780629	13.0785	13.57577333
Ltbr	chr6:125256588-125263888	13.0782	8.651336667
Hist1h2bk	chr13:22127755-22128136	13.0767	22.01173333
Gpcpd1	chr2:132354818-132403984	13.07095667	16.9339

Arl6ip6	chr2:53051117-53078255	13.0681	12.16766667
Gpc4	chrX:49406194-49518100	13.065957	8.367486333
Rcc1	chr4:131887833-131901665	13.0655	5.760756667
Sfi1	chr11:3031852-3093466	13.0642	5.020286667
Arid1b	chr17:4995073-5347656	13.06404333	10.11451667
Phospho2	chr2:69627793-69635225	13.06259333	18.60924667
Dlgap4	chr2:156439440-156590099	13.04821667	23.96303333
Zdhhc21	chr4:82444641-82505565	13.03535333	13.64629667
Nup214	chr2:31829969-31909495	13.0352	24.3865
Gadd45g	chr13:51942043-51943843	13.03179	73.67406667
Fam108a	chr10:80046393-80053086	13.02812	9.458083333
Tmem87a	chr2:120181044-120229852	13.02257333	17.1812
Arhgap27	chr11:103192797-103225006	13.02190667	11.99426667
Ifi35	chr11:101309725-101320015	13.02132333	5.059816667
Exosc8	chr3:54532600-54539286	13.02063	5.27037
Unk	chr11:115891635-115922508	13.01796667	10.33881333
2900026A02Rik	chr5:113515342-113592333	13.01673333	10.49668
Wdtdc1	chr4:132848380-132895230	13.01230667	8.198043333
Ulk3	chr9:57437258-57444040	13.0109	12.30184
Eef2k	chr7:127986368-128050733	13.00843	19.7684
Faf2	chr13:54723144-54765424	13.0012	17.05353333
Ldoc1l	chr15:84383827-84388253	12.99974667	9.18106
Cwc27	chr13:105421406-105607033	12.99937333	25.51073333
Cpeb2	chr5:43624701-43680963	12.9941	19.3766
Hsbp1l1	chr18:80426494-80443841	12.99063333	38.06826667
Arhgef16	chr4:153652578-153674004	12.98827667	11.04869667
Tshz3	chr7:37483136-37558476	12.98150667	9.833043333
Prcc	chr3:87662824-87689484	12.97984	12.70102667
Ppp2r5e	chr12:76551867-76697187	12.97848	11.72266667
Lrrc45	chr11:120575266-120582441	12.97077667	14.836
Bcl6	chr16:23965137-23988698	12.9701	16.40206667
lft88	chr14:58042907-58136773	12.96983333	14.94553
E130309D02Rik	chr5:144062750-144077039	12.95933667	16.0665
Creld1	chr6:113433562-113443332	12.9579	12.71446333
Trps1	chr15:50486304-50721587	12.9534	46.5209
Tbc1d22a	chr15:86044888-86328933	12.95155	13.82055
Mrpl28	chr17:26260447-26263558	12.94791	13.90874333
Eps8l1	chr7:4416343-4430844	12.94200333	3.310913333
Rcn2	chr9:55889651-55906890	12.93626	22.91433333
Taf8	chr17:47624998-47639236	12.93233	7.9544
Tmem181a	chr17:6270474-6305783	12.93053333	13.31967
Ppic	chr18:53565994-53577661	12.926799	11.83625
Mob1b	chr5:89149895-89187480	12.92589667	11.5269
Nqo1	chr8:109912124-109927105	12.92584	5.26599
0610009O20Rik	chr18:38409902-38422283	12.92534667	19.38953333
Pcdhga8	chr18:37885359-38001526	12.92265667	3.597063333
Msh6	chr17:88374389-88390232	12.91793333	9.458566667
Supt7l	chr5:31816941-31829135	12.91511333	8.305683333
Ctbs	chr3:146113456-146128735	12.91481	10.8196
Vcl	chr14:21748654-21852895	12.90968667	20.55673333
Mcoln1	chr8:3500518-3515231	12.90507667	17.22793333
C230024C17	chr1:155568369-155584959	12.90384667	7.532666667

Lrrc51	chr7:109061502-109082371	12.89912333	10.40863667
Lmbrd2	chr15:9070325-9127206	12.89630667	21.3975
4930415O20Rik	chr15:98401434-98420019	12.88908	0
Slc25a12	chr2:71112351-71205611	12.88323333	27.9131
Rnf31	chr14:56210626-56222508	12.88166667	8.52609
Sympk	chr7:19609725-19639971	12.88051667	15.08806667
Man2b1	chr8:87607167-87622638	12.87936667	24.12006667
Ddx27	chr2:166840812-166860445	12.87794333	10.27440667
Rpa1	chr11:75113760-75161885	12.87318	8.013136667
Fam108c	chr7:91257865-91300403	12.86373333	11.77561667
Dap3	chr3:88724724-88754204	12.86175	11.45910333
lkbkb	chr8:23769676-23817055	12.85523333	10.89203333
2900076A07Rik	chr7:88668435-88676384	12.85456667	2.804736
Epb4.1l2	chr10:25079603-25243324	12.84776667	11.23949333
Ncald	chr15:37295929-37722183	12.8453	9.026043333
Srp54a	chr12:56181482-56216354	12.83351	11.52956667
Mrpl41	chr2:24827989-24830618	12.83211	5.630752667
Tagap1	chr17:7159313-7165505	12.8283	7.599993333
Enpp4	chr17:44233258-44242757	12.8176	11.57244667
Tex2	chr11:106363452-106474244	12.81759	26.1076
Npcd	chr15:79616780-79664763	12.8161	6.178063333
Acd	chr8:108222058-108224995	12.81435	6.9511
Atp1b2	chr11:69413251-69419462	12.81028	18.54856667
Manbal	chr2:157193329-157222499	12.80860333	6.334913333
Sugp1	chr8:72566711-72595852	12.80498333	10.99117
Sumf1	chr6:108057014-108135577	12.79899667	17.71222667
Ext1	chr15:52899817-53177738	12.79879333	8.615056667
Gnl3	chr14:31825618-31832275	12.7931	36.0174
Ntm	chr9:28803548-29770714	12.79289667	25.16122333
Zfp691	chr4:118842122-118846800	12.79208333	9.444533333
Slc23a2	chr2:131878231-131970844	12.79105667	21.4613
Dpp3	chr19:4907228-4928287	12.79002333	15.8089
Rab43	chr6:87738846-87761773	12.78716667	16.59383667
Scamp3	chr3:88981406-88986692	12.78516667	17.44952333
Prdm4	chr10:85354712-85379690	12.78376667	21.54943333
Rn4.5s	chr6:47617916-47618090	12.77995333	26.6875
Arfgap3	chr15:83130169-83180677	12.77420667	15.137
Casc4	chr2:121692705-121761943	12.77215	16.09989333
Rrn3	chr16:13780791-13814934	12.77199	7.64857
B630005N14Rik	chr6:13575674-13627966	12.76885	15.50950333
Lig3	chr11:82594636-82617776	12.76214667	16.4084
Bhlhb9	chrX:132420389-132425620	12.75874333	26.2499
Zfp799	chr17:32954148-32967193	12.7557	10.30561333
Tm7sf2	chr19:6062820-6067850	12.75060333	32.38243333
Lemd2	chr17:27326544-27341383	12.74762667	18.28213333
3110002H16Rik	chr18:12327238-12348478	12.74419333	16.1736
Acat2	chr17:13135907-13153591	12.74166667	15.39178667
Pik3ca	chr3:32335072-32367408	12.74103333	16.3981
Snhg4	chr18:35713063-35717970	12.73995667	6.979243333
Cstf2t	chr19:31157330-31161082	12.73919	6.748613333
Ssfa2	chr2:79475581-79513121	12.7355	26.2978
Lancl2	chr6:57652448-57689443	12.73234667	19.25583333

	6-Mar	chr2:60047992-60086442	12.73216667	28.54996667
Polr2i		chr7:31017092-31018406	12.73207333	5.604793333
Cenpv		chr11:62338445-62352763	12.73090667	7.401763333
Aimp2		chr5:144663572-144670708	12.72387667	22.04514667
Gabbr1		chr17:37182910-37211250	12.72028333	13.32493333
Gart		chr16:91621641-91647217	12.7192	18.438
2610528A11Rik		chr14:37915325-37923287	12.71815	107.6557667
Rsrc1		chr3:66789593-67162325	12.71811333	10.74573333
Fubp3		chr2:31428244-31473039	12.71637333	16.26816667
Gne		chr4:44046946-44097049	12.71008667	21.03163333
Tmem188		chr8:90642657-90659096	12.70488333	17.04406667
C230052I12Rik		chr7:36177170-36181786	12.70167667	18.3228
Zfp821		chr8:112229448-112248832	12.69883333	21.06989667
Clcn1		chr6:42236683-42264655	12.69681667	26.2572
Plek2		chr12:79989683-80007925	12.69458667	22.30346667
Gm15915		chr10:93136962-93146067	12.69330667	2.086169333
Znrd1as		chr17:37095536-37102568	12.69314667	9.524076667
Snap29		chr16:17406092-17430919	12.68802667	18.40276667
Mars2		chr1:55294020-55296902	12.68650667	5.5401
Eml5		chr12:100024813-100139694	12.68636667	9.914423333
5430405H02Rik		chr2:156678138-156688681	12.68509	7.544729667
B930041F14Rik		chr4:155068450-155070592	12.68160667	4.945733333
Trpa1		chr1:14862728-14908943	12.68056667	0.008299067
Gad2		chr2:22477846-22549397	12.67682	15.55799667
Fas		chr19:34365148-34402260	12.66930667	6.43971
Mettl16		chr11:74584364-74632194	12.66389333	12.23221
Rtn2		chr7:19868015-19881509	12.65033333	15.26454333
lpo9		chr1:137278891-137327068	12.64919667	7.882656667
2210411K11Rik		chr7:4736386-4741162	12.63883333	11.82398
Gramd3		chr18:56591785-56663446	12.63841333	36.3308
Aldh5a1		chr13:24999447-25029530	12.63807333	19.38062
Mccc2		chr13:100718486-100785594	12.63788333	7.93561
Cnot7		chr8:41578389-41596658	12.63478	31.06723333
Tmem29		chrX:146832315-146893693	12.63472333	22.6916
Usp10		chr8:122434751-122481457	12.63006667	14.64013333
Marveld3		chr8:112471808-112486105	12.62971333	21.5442
Abhd13		chr8:9977716-9992154	12.62946333	13.50303333
Lrrcc1		chr3:14533787-14572658	12.62923333	7.94349
4933424B01Rik		chr6:146498153-146526357	12.62682667	16.83943333
BC068157		chr8:4209542-4217312	12.62657667	27.7421
Syt1		chr10:107934705-108448031	12.626	6.44037
Tmem175		chr5:109058828-109076789	12.62510667	17.15736667
Uchl3		chr14:102053183-102095342	12.62055667	12.82446
Usf1		chr1:173341811-173348873	12.61931333	4.763457333
3425401B19Rik		chr14:33472304-33498458	12.61534667	0.0079749
Pde8a		chr7:88358689-88478508	12.60886333	2.751127
Pold2		chr11:5772182-5778259	12.60838	11.12497333
Lrrc10b		chr19:10529860-10531937	12.60800667	1.4818696
Fam83f		chr15:80502276-80530855	12.60732333	20.21053333
Arvcf		chr16:18348366-18407167	12.6034	11.36759333
Zfp26		chr9:20232761-20264604	12.59477667	11.92226667
Raly		chr2:154616845-154692997	12.5827	20.94706333

6330503K22Rik	chr7:125856124-125880532	12.5782	12.76632333
Ankib1	chr5:3689999-3803109	12.57569667	14.324
Gm3776	chr9:78104935-78116973	12.57273333	18.29304333
Ergic1	chr17:26698456-26793878	12.5718	16.19110667
Cndp2	chr18:84836860-84855025	12.57114333	4.838096667
Foxo1	chr3:52072258-52154031	12.57093333	9.05679
Pi4kb	chr3:94778652-94810765	12.56979667	11.89877667
Chchd4	chr6:91414269-91423417	12.56589667	12.03932667
Cox19	chr5:139813775-139821120	12.56358	27.4072
Mfsd5	chr15:102109886-102112175	12.56286667	28.91366667
2410018M08Rik	chr5:130371592-130379492	12.56026667	12.87672
Hadh	chr3:130936341-130974955	12.55731333	19.89596667
1700021F05Rik	chr10:43244926-43260800	12.55727333	11.74328667
Arl2bp	chr8:97190654-97198322	12.55631	20.69792333
Tmem39b	chr4:129353598-129374082	12.55427333	15.02556667
Orc4	chr2:48758273-48804787	12.55177333	9.2024
Scarb1	chr5:125757456-125821464	12.55083667	3.578726667
Gsta1	chr9:78078475-78090490	12.54369	18.33876333
Zfp408	chr2:91483844-91489948	12.53796667	16.99727667
Slit2	chr5:48374393-48697017	12.53731	0.448855267
Scyl1	chr19:5758426-5771401	12.53586667	12.00467
BC005764	chr10:79323219-79337379	12.5352	22.12095333
Cwc25	chr11:97606783-97627927	12.53453	6.704706667
Rad52	chr6:119852715-119872841	12.53253333	22.49432
Siae	chr9:37421431-37455903	12.53216667	11.58472333
Kcnk1	chr8:128519001-128554585	12.53014	16.50198667
Wdfy2	chr14:63456526-63575723	12.53010333	4.534298
1810029B16Rik	chr8:69000244-69010406	12.52632667	12.22570333
Fam82a2	chr2:118962733-118982770	12.52346667	21.09578667
Tmprss13	chr9:45127182-45155663	12.52306667	12.13300333
Pm20d2	chr4:33257381-33276712	12.51275667	7.197533667
Lin54	chr5:100871057-100929658	12.50848333	12.38433667
Slc41a1	chr1:133724588-133745440	12.50365333	14.29026667
Rn4.5s	chr6:47694056-47694230	12.5027	31.42536667
Polm	chr11:5727862-5738019	12.50156	2.677847667
Pcyox1	chr6:86335999-86347144	12.49716667	19.52626667
Rmrp	chr4:43505656-43505931	12.49533333	36.18519
Ufm1	chr3:53657297-53667729	12.49333333	7.193716667
Gm7694	chr1:172228323-172236463	12.48782333	9.34531
Alg2	chr4:47482704-47487239	12.48446	13.88833333
Phkg2	chr7:134716861-134726821	12.48290667	11.36189
Tmem192	chr8:67471083-67492935	12.48216667	14.74783
AK129341	chr9:8076632-8134294	12.47706667	7.499276667
Rn4.5s	chr6:47630883-47631057	12.47491333	39.99393333
Slc17a5	chr9:78384315-78435834	12.47114333	13.43304333
Atg12	chr18:46892070-46901233	12.46785	21.58
Sirt6	chr10:81084530-81090353	12.46777333	3.905136667
Cldn9	chr17:23819550-23820993	12.46754333	6.398776667
Tmx4	chr2:134420241-134469857	12.4645	11.22109
Sema4b	chr7:87331726-87371410	12.46305333	20.95356667
Foxk2	chr11:121121300-121171210	12.4615	19.05666667
4933400F21Rik	chr1:91573081-91580467	12.46139667	8.465343333

Elmod3	chr6:72515915-72548407	12.4538	8.104
Gtpbp5	chr2:179805297-179820607	12.45181	3.777496667
Dnalc1	chr12:85455277-85484460	12.4456	9.585156667
Spata6	chr4:111392614-111501745	12.44407667	7.659453333
Gga1	chr15:78707619-78725015	12.44205	5.094715333
Brix1	chr15:10404533-10415692	12.44181333	13.84779
Kcnb1	chr2:166921468-167014318	12.43866667	16.31906667
Pcdhga7	chr18:37874487-38001526	12.42411333	5.954513333
Zfyve27	chr19:42245056-42269082	12.42285	6.387986667
Lrrc48	chr11:60166881-60207835	12.42134	5.228536667
Acvr1	chr2:58298848-58419239	12.41430333	20.6852
Gtf3c5	chr2:28421782-28438799	12.40290667	18.3588
Kctd11	chr11:69691765-69694487	12.4025	22.7561
Mpped2	chr2:106533615-106708517	12.39684	8.272063333
Rps12	chr10:23504988-23507015	12.39112667	13.18512333
Adora2b	chr11:62062485-62079954	12.3876	10.75505
Sec61a2	chr2:5792032-5816399	12.3853	16.89163333
Klhl18	chr9:110328429-110379198	12.3829	11.0028
Eral1	chr11:77886877-77893885	12.3767	5.578013333
Nbeal1	chr1:60237442-60391549	12.3763	8.116713333
Tatdn1	chr15:58721707-58765285	12.36536667	21.52524333
Arl5a	chr2:52253470-52280394	12.36303333	12.3102
Epb4.1l4a	chr18:33955980-34166860	12.36216667	19.15463333
1110012J17Rik	chr17:66686321-66799090	12.36084667	18.15383333
3110001D03Rik	chr4:74923257-74924190	12.35490333	20.87899667
Fgd4	chr16:16422070-16560289	12.35083333	12.15547667
Rin2	chr2:145611851-145713352	12.34963333	29.82626667
Tbc1d7	chr13:43247108-43266870	12.34751667	13.65771
Ndufaf4	chr4:24825229-24832148	12.34631	6.9445
Ntn1	chr11:68022865-68200328	12.34223333	1.32335
Vbp1	chrX:72759635-72780285	12.34043333	17.8733
Evi5	chr5:108173813-108304126	12.3375	21.85773333
Cab39l	chr14:60059817-60167740	12.32538333	31.39083333
Mcf2	chr17:87653782-87665287	12.32463333	6.200743333
1600014C10Rik	chr7:38968235-38982584	12.31114333	6.54979
Zfp750	chr11:121372289-121380656	12.30312333	46.98303333
Parp9	chr16:35938555-35972707	12.30113333	6.214355333
Timm17b	chrX:7476523-7484778	12.30112	10.34829
Mtap9	chr3:82161993-82199190	12.29036667	15.9433
Ttc32	chr12:9036802-9043200	12.28752333	10.47256667
Fermt2	chr14:46078466-46149740	12.28601	13.6194
Hist2h3c2	chr3:96042030-96043050	12.27804333	8.44454
Mon1b	chr8:116159485-116169079	12.2725	16.1533
Rnf168	chr16:32277546-32301525	12.26874333	12.13584667
Sc4mol	chr8:67196941-67212375	12.26553333	22.03293333
Tsen34	chr7:3645211-3652637	12.26477667	10.30269667
1700029I15Rik	chr2:92223074-92223760	12.26217667	12.5883
Pitpnm2	chr5:124568698-124666427	12.26097333	29.61516667
Zfp407	chr18:84377093-84758896	12.25726667	10.54179333
Sart1	chr19:5377522-5388703	12.25134667	6.652906667
Fam101a	chr5:125483844-125492917	12.25093333	15.76447
Cc2d1b	chr4:108292560-108306727	12.24771333	7.89498

Xpr1	chr1:157122786-157264574	12.24006667	23.47653333
Klk10	chr7:51036423-51040780	12.23986	28.24136667
Lrrc42	chr4:106906118-106926138	12.23921333	14.34955333
Krt23	chr11:99339286-99354424	12.23898667	38.48396667
Pik3c2a	chr7:123480789-123586972	12.23764	14.60442333
Scaf1	chr7:52258319-52271619	12.23703333	15.72468333
Nsg2	chr11:31900458-31959202	12.23631667	29.62283333
BC003331	chr1:152208440-152240185	12.23313	16.44926667
Map3k3	chr11:105946215-106016748	12.22903667	9.896163333
Plekhh1	chr12:80130149-80182642	12.22412	13.9418
Fbxo42	chr4:140703836-140759977	12.22374333	7.571346667
Ppp1r13b	chr12:113066668-113146266	12.22207333	11.30714333
Crb3	chr17:57201699-57205337	12.22125	9.799603333
Paxip1	chr5:28067204-28117879	12.21663333	21.1389
Nprl2	chr9:107444539-107448037	12.21599667	6.08596
Il18bp	chr7:109163590-109166669	12.21222667	15.15513
2900056M2ORik	chrX:148729370-148762036	12.20923333	10.29230667
Cgrrf1	chr14:47451918-47473865	12.20721667	7.567683333
Gtf2f2	chr14:76296743-76410672	12.20643333	18.56190333
Zrsr2	chrX:160373374-160396598	12.19924667	6.813093333
Pdlim7	chr13:55598847-55614800	12.19680667	18.10486667
Lrrc36	chr8:107937521-107987986	12.19641667	7.566986667
Mrps18b	chr17:36047329-36053314	12.18465667	7.183773333
Gnai1	chr5:17770952-17866231	12.18397	39.10706667
Arhgap26	chr18:39152798-39535939	12.18103667	7.083966667
Usp38	chr8:83504631-83538805	12.18076667	13.45953333
Ly6a	chr15:74825306-74828318	12.17195	53.85206667
Stk11ip	chr1:75518103-75533910	12.16458667	5.576126667
Paip2b	chr6:83756052-83781735	12.15833333	15.14434
Lrrc20	chr10:60938580-61044976	12.15111667	9.7607
Aktip	chr8:93647397-93659395	12.14982667	17.8832
Hey1	chr3:8663358-8667038	12.14612667	17.57526667
Crabp2	chr3:87752614-87757294	12.14295	2.421279333
Atxn1	chr13:45645124-46060360	12.14196667	15.63683333
Abcc1	chr16:14361650-14474971	12.13889333	25.7971
Smox	chr2:131317597-131350919	12.13516333	9.460043333
Rbm10	chrX:20194628-20228031	12.13394333	10.43281
Cox7a1	chr7:30969189-30971049	12.12847667	8.807113333
Best3	chr10:116423369-116462096	12.12762667	0.086686633
Tmem39a	chr16:38558810-38592275	12.12604333	20.61626667
Usp32	chr11:84797989-84953457	12.12401667	15.19207333
Ikzf4	chr10:128069470-128083049	12.11690333	4.514963333
Golt1b	chr6:142335762-142352378	12.11391667	10.61277333
Ythdf2	chr4:131740830-131768171	12.11374	10.46894667
Dopey1	chr9:86360760-86449413	12.1102	12.99435333
Zfp687	chr3:94810623-94819160	12.10797333	27.01103333
Cd14	chr18:36884720-36886308	12.10409	7.576673333
Gpr137b	chr13:13449887-13485891	12.10376667	8.173253333
Gas2	chr7:59134514-59249828	12.09146667	0.658533667
Ap3m1	chr14:21852963-21871664	12.09102333	12.43303667
lzumo1	chr7:52877180-52882612	12.09024667	11.792848
Prosc	chr8:28153026-28166604	12.0882	10.52164333

1810011O10Rik	chr8:25548087-25549418	12.08638667	8.488729667
Fkbp15	chr4:61961375-62021582	12.08313333	15.57533333
Hscb	chr5:111258088-111268796	12.08167667	12.10789667
Abcb8	chr5:23899973-23915765	12.08102	13.29866667
Fbxl17	chr17:63395300-63849929	12.07148	10.29117
Gsr	chr8:34763709-34808634	12.06992667	45.61833333
Pds5b	chr5:151476401-151613245	12.06893333	11.1812
Heatr7a	chr15:76210942-76283469	12.0679	10.88683333
Ppat	chr5:77342273-77380603	12.05911667	13.36396667
Arid3b	chr9:57638315-57682041	12.05436667	15.09199667
Oraov1	chr7:152101098-152107042	12.04988667	14.0945
Fbxw4	chr19:45652746-45734683	12.04932667	5.100888667
Papolg	chr11:23762645-23795270	12.04914333	12.37643667
Spata5	chr3:37319201-37478017	12.04327	14.35423667
Dab2ip	chr2:35413977-35586514	12.04095667	11.50549333
Nedd9	chr13:41405284-41582689	12.03031	21.06503333
Mapkbp1	chr2:119798434-119853139	12.02948667	13.24862333
Zwint	chr10:72117642-72132537	12.02476667	16.30653333
Epha1	chr6:42308485-42323267	12.02385667	41.3533
Nup50	chr15:84753857-84773393	12.02243333	10.55051333
Rhot1	chr11:80022556-80081409	12.02235	12.76286667
Abcc8	chr7:53359892-53435403	12.01406667	11.85563
Acp2	chr2:91043068-91054255	12.01376667	14.89666333
Kcnb2	chr1:15302532-15704295	12.00787667	2.91916
Tbrg4	chr11:6515600-6526070	12.00733333	3.630663333
Kank1	chr19:25311691-25508986	12.00715667	12.41132333
1700007G11Rik	chr5:98758322-99231038	12.00569333	5.45253
4430402I18Rik	chr19:28997553-29038644	12.00248333	2.997553333
Dnajc28	chr16:91614501-91619244	12.00233333	9.29518
Nolc1	chr19:46150352-46160020	12.00103333	12.35668
Trip4	chr9:65676732-65756601	12.00003333	9.18796
Rtn4ip1	chr10:43621612-43667668	11.99643667	8.94697
Reep2	chr18:35000242-35007117	11.99294333	12.19297333
Spsb2	chr6:124758958-124760632	11.97934333	5.344188667
1500002O20Rik	chr7:25184646-25207796	11.97326667	4.884386667
Lst1	chr17:35322039-35325385	11.96288	0
Tbc1d1	chr5:64551449-64742725	11.96114	4.9747
Tbcel	chr9:42220399-42280309	11.95939	12.79854667
Blzf1	chr1:166219930-166237615	11.94563667	7.389303333
B4galt3	chr1:173200458-173207026	11.9437	17.96133333
Ttc7	chr17:87682225-87781110	11.93710333	3.84533
1300010F03Rik	chr14:79248984-79602117	11.93419667	13.10839
E130308A19Rik	chr4:59639092-59767175	11.9321	9.161996667
Nfkb1	chr3:135247618-135354511	11.93139	5.14091
Cdca7	chr2:72314275-72324947	11.92956667	3.2297
Mecr	chr4:131399385-131423702	11.92850333	3.85802
Gpatch1	chr7:36061562-36103459	11.92670333	6.301269667
Nudt21	chr8:96543302-96560939	11.92265667	13.33464667
Uchl5	chr1:145624407-145654596	11.91903333	15.37629333
1110037F02Rik	chr4:11413104-11478290	11.91637333	6.773183333
Pigk	chr3:152377063-152451977	11.91104333	9.867686667
Polr3a	chr14:25267915-25306268	11.90780667	10.77762333

Zfp704	chr3:9427009-9610085	11.90766667	12.05059
Krt20	chr11:99289716-99299467	11.90722333	4.535226667
Rit1	chr3:88520775-88534970	11.90600667	4.219626667
Haghl	chr17:25919769-25922278	11.90158	11.81524667
Nfatc2	chr2:168301909-168427155	11.90044	10.01546333
9530082P21Rik	chr17:23886202-23891032	11.89902	3.648316667
Mut	chr17:41071633-41098938	11.89609667	13.26006
Zfp410	chr12:85657808-85685389	11.89443333	23.4875
Ccdc75	chr17:79234855-79247648	11.88898	7.76042
Usp30	chr5:114550341-114572933	11.88453333	8.582923333
Prune	chr3:95057595-95085998	11.88425333	21.62823333
Lta4h	chr10:92916140-92947641	11.88250333	13.39605667
Cblb	chr16:52031661-52208159	11.88229	20.78176667
Trmt2a	chr16:18248975-18254865	11.87736	9.671396667
Pex14	chr4:148334643-148473921	11.87073667	2.340696667
Alkbh8	chr9:3335230-3385846	11.86885	15.27701667
Tsc22d2	chr3:58219610-58270709	11.86756	14.04976667
Mtmr9	chr14:64142446-64162790	11.86515667	5.8541
Prkra	chr2:76467993-76486051	11.86343	8.537653333
Zc3h7b	chr15:81575277-81626699	11.86224	10.56594333
Myst1	chr7:135056030-135069276	11.85746333	5.801906667
Hmox1	chr8:77617516-77624492	11.85682333	11.63905333
Rad9b	chr5:122775516-122804204	11.85334667	9.344666667
Cnm3	chr1:36568720-36585082	11.85211	9.920376667
Tbcd	chr11:121313262-121478484	11.85028	14.84783667
3200002M19Rik	chr7:109044928-109048057	11.84784667	12.11577333
C1qbp	chr11:70791347-70796528	11.84763667	25.85015667
Tox4	chr14:52898820-52915184	11.83956667	21.86244333
Gmcl1	chr6:86641761-86683372	11.83506667	12.66
Rusc2	chr4:43394853-43439958	11.83474	6.643413333
Csrp2bp	chr2:144194767-144233411	11.8324	11.78855667
Zfp941	chr7:147995575-148008077	11.82806667	5.474853333
Pibf1	chr14:99498651-99653712	11.81523333	7.84605
Mettl3	chr14:52914516-52924799	11.81317	6.370133333
Fblim1	chr4:141131976-141161967	11.80848667	8.853426667
Pin4	chrX:99314803-99323012	11.80777	10.72673
Plekhn2	chr4:141181648-141220030	11.80579	6.266686667
Tcp11l1	chr2:104520136-104552319	11.80197	23.6158
Sorcs2	chr5:36359829-36740788	11.80024667	87.3312
Krtap16-3	chr16:88962548-88963118	11.79741333	0
Zfp612	chr8:112603633-112616652	11.79724667	9.81397
Cdkl5	chrX:157222239-157432613	11.79721667	21.21103333
Papd7	chr13:69636836-69672742	11.79517333	8.9915
Tcn2	chr11:3817080-3832081	11.79482333	18.99183333
Nkd1	chr8:91045242-91118786	11.78743667	43.61426667
4930453N24Rik	chr16:64765930-64770765	11.78431667	6.27003
Traf3	chr12:112404758-112505359	11.78290333	15.80484333
Efnb1	chrX:96331468-96344330	11.78218333	5.937823333
Wrnip1	chr13:32893898-32914479	11.78187667	13.98125667
lft122	chr6:115803545-115876717	11.77966667	13.78693333
Zfp868	chr8:72134552-72149447	11.77603333	16.16216667
4930565N06Rik	chr16:36880604-36897275	11.7752	11.48373667

Fbxo7	chr10:85484673-85511073	11.77436667	7.097453333
Dgkk	chrX:6356431-6525489	11.76777	4.426455
Rapgef5	chr12:118754951-118995451	11.76773	2.958456667
Cdc34	chr10:79144939-79151143	11.76468	8.76996
Klf10	chr15:38224167-38230462	11.76296667	34.93893333
BC020402	chr10:7398768-7400956	11.7625	1.358253333
Gcdh	chr8:87410285-87417820	11.75834333	12.62956667
Parp4	chr14:57194455-57278635	11.75595333	12.14735667
Eid3	chr10:82329370-82330674	11.75289333	19.05116667
Polr3k	chr2:181599064-181605531	11.74674667	18.05733333
Ino80	chr2:119198778-119303365	11.74643333	14.03380667
Zfp3	chr11:70577948-70586431	11.74617667	5.78541
Fgfbp1	chr5:44370098-44373001	11.74580667	26.11479
Bcl9l	chr9:44307218-44318495	11.74577333	11.81322333
Ces2g	chr8:107485617-107493437	11.74317667	32.45116667
Herpud2	chr9:24912573-24956280	11.74116667	16.62865667
Cd59a	chr2:103935957-103955508	11.74085	34.30426667
Fam49b	chr15:63760648-63892010	11.71536333	8.745366667
Ccdc45	chr11:106650565-106680175	11.70703	15.61953333
Taf1	chrX:98728073-98797128	11.70556667	17.48276667
Cblc	chr7:20365066-20382158	11.70362667	5.37465
Mrps23	chr11:88017919-88025009	11.70151333	12.68218333
Rif1	chr2:51928356-51977901	11.69895	15.77613333
Sil1	chr18:35426049-35658579	11.69883	12.28795
Galt	chr4:41702125-41705998	11.69389	11.46837333
Kif1c	chr11:70514049-70545472	11.69143333	21.49913333
Wiz	chr17:32490994-32526384	11.69099667	17.56791667
Tspan17	chr13:54890765-54898136	11.68876333	8.92989
Alkbh3	chr2:93820790-93850887	11.68627667	17.62218333
Josd1	chr15:79504679-79518302	11.68503333	16.6075
Fam53a	chr5:33943001-33972284	11.68283333	8.826243333
5830418K08Rik	chr9:15121357-15162232	11.68263333	7.971853333
Bag5	chr12:112947703-112951467	11.67762	20.35396667
Gm1631	chr2:71557473-71569023	11.67716	0.130392667
Ubxn7	chr16:32332337-32393833	11.6771	23.24294667
Phtf2	chr5:20264481-20387942	11.67708	8.999113333
Ap4m1	chr5:138613248-138619913	11.67311	6.843796667
Rpap2	chr5:108026398-108090857	11.67253	7.30608
2700069I18Rik	chr3:5177827-5220823	11.66937333	0
Nrf1	chr6:29997987-30103458	11.66922667	10.04762667
Slc25a1	chr16:17925303-17928312	11.66594667	16.03156667
C330007P06Rik	chrX:34388538-34404241	11.66515	8.16174
Pmm1	chr15:81781535-81791297	11.66351333	13.91386667
Pex16	chr2:92214832-92221377	11.66275	5.100632
Myo10	chr15:25552304-25743426	11.65806667	12.94976667
Sirt1	chr10:62781752-62801783	11.65786667	18.81506667
Adat3	chr10:80065624-80070399	11.65754333	3.641246667
Yap1	chr9:7932000-8004596	11.65082667	14.1806
Senp2	chr16:22009556-22049342	11.65071667	10.73404667
9430083A17Rik	chr13:51193106-51196096	11.64892	2.225951333
Usp39	chr6:72268669-72295169	11.64836333	8.395253333
Akr1b10	chr6:34334246-34346949	11.64424333	14.03517667

Gm13363	chr1:30998436-31006555	11.63930667	14.9373
Mtap7d1	chr4:125909411-125933563	11.63682	7.901523333
Paqr9	chr9:95460235-95462540	11.63392	6.22161
Tbc1d9b	chr11:49944861-49986287	11.62981333	13.18216667
Coq10b	chr1:55109613-55129546	11.62858333	10.50832333
Ripk1	chr13:34094742-34127039	11.62591667	9.868813333
Dhx30	chr9:109986822-110020120	11.6215	7.531843333
Cul4b	chrX:35884797-35929373	11.62009667	11.011
Psmg2	chr18:67801252-67813816	11.61959333	25.28700667
Wbp7	chr7:31353873-31373745	11.61944667	12.26253333
Polr3c	chr3:96515817-96531362	11.61489333	7.722483333
BC053749	chr7:31324152-31337291	11.61348	4.28698
Dnajc17	chr2:118998235-119034531	11.60816	13.64616333
Cdc23	chr18:34791336-34811390	11.60619	18.26851333
Hira	chr16:18876842-18970401	11.60234333	5.843043333
Mrpl47	chr3:32626418-32635677	11.60092	7.10521
BC057022	chr5:115018259-115063227	11.59897667	38.9961
Cbx7	chr15:79746236-79763076	11.59636	18.31834333
Ptprd	chr4:75587142-76240203	11.59216667	4.640380033
2310047B19Rik	chr9:21760196-21762714	11.59025333	5.2971
Acp6	chr3:96962699-96980499	11.58636667	22.57726667
Lap3	chr5:45884612-45903930	11.57786	15.41925333
Slain1	chr14:104049459-104104016	11.57742333	11.20449667
Nfkbib	chr7:29543269-29551543	11.57622	10.28527333
Zfp467	chr6:48377690-48395824	11.57596333	24.99626667
Hn1l	chr17:25079414-25097568	11.57262667	21.12243333
Psm3	chr12:72075609-72095910	11.57241333	13.4782
Riok1	chr13:38128857-38153302	11.56795667	10.00506333
Rad54l2	chr9:106590410-106691544	11.56647333	8.339076667
Pip4k2a	chr2:18763882-18919748	11.56428	23.31453333
8430410K20Rik	chr9:4383536-4386869	11.56384333	13.84142667
Pde10a	chr17:8994609-9179513	11.56261	6.268823333
Gm10565	chr4:141640212-141644016	11.56123333	0.873443333
Arhgef10	chr8:14911716-15001085	11.54611667	1.853297333
Ints8	chr4:11126304-11181406	11.54417	25.86573333
Gosr1	chr11:76540103-76577057	11.54244	10.80227333
Dctn1	chr6:83115917-83150112	11.54079667	13.08716667
Zfyve19	chr2:119034455-119042786	11.53321667	6.161066667
Trpv4	chr5:115072162-115108430	11.53234667	7.42039
N4bp3	chr11:51456590-51464575	11.52635667	22.65217667
Ampd3	chr7:117916117-117955909	11.52133	5.303653333
Klhl12	chr1:136352131-136387450	11.51820333	11.33426
Prss23	chr7:96656294-96666096	11.51590333	4.878428833
Txndc15	chr13:55816010-55827588	11.51549667	13.85256667
Mosc2	chr1:186636946-186669726	11.51138667	14.95584667
Fto	chr8:93837423-94192332	11.5111	11.07928
Osbp16	chr2:76244594-76438704	11.51032	7.01944
Ppp2r3a	chr9:101007319-101154162	11.50919333	12.72842333
Fchs2	chr7:108257288-108432919	11.50467333	12.75050667
Pgs1	chr11:117848170-117885325	11.50293	20.2544
Rsb1	chr3:103718042-103770543	11.49372333	19.7891
Mtf2	chr5:108494692-108538238	11.48565667	17.7805

Lysmd3	chr13:81796804-81810889	11.47471667	14.14326
Hlcs	chr16:94350911-94509463	11.47076333	4.78118
Rgl1	chr1:154364659-154472241	11.46759	2.399226
Ptpn4	chr1:121554669-121733648	11.46563667	11.56008667
Rab3gap2	chr1:187028046-187110625	11.46440667	10.56348333
Copg2	chr6:30698410-30846760	11.46175667	18.79634667
Mx2	chr16:97757687-97782508	11.45476333	3.420838333
Eri3	chr4:117223098-117346886	11.45435667	14.9152
Ggcx	chr6:72364326-72380701	11.4539	8.154673333
Nsmaf	chr4:6323353-6381418	11.45286667	11.93453
Phf23	chr11:69809272-69813513	11.45250667	13.74226667
A130022J15Rik	chr6:97060937-97098877	11.45038	14.01887333
Lmnb2	chr10:80364107-80380990	11.44940667	19.45366667
Fgfr1op	chr17:8358382-8389335	11.44866	13.67762333
Tfb2m	chr1:181458186-181476398	11.44737333	16.62803333
Ift80	chr3:68696420-68808492	11.4399	16.02870333
Trap1	chr16:4039976-4077810	11.43779667	18.1934
Slc43a2	chr11:75345195-75391074	11.42263	5.653923333
Mtus1	chr8:42076265-42219080	11.42212667	10.40009333
Tspan15	chr10:61648143-61693966	11.41559667	6.217288
Angel1	chr12:88041451-88067410	11.41242333	8.750183333
Zfp788	chr7:48888900-48906902	11.41016	8.424663333
4930578N16Rik	chr2:69596113-69627543	11.40985333	14.5746
Tcf3	chr10:79871909-79896398	11.40886	15.89983333
Mxd4	chr5:34519228-34530359	11.39980667	17.98684
Rap1gap	chr4:137220640-137285776	11.39498333	50.98873333
Sidt2	chr9:45745957-45763332	11.39423333	20.41063333
Mboat1	chr13:30228358-30338563	11.38966667	9.226716667
A330023F24Rik	chr1:196843592-196864102	11.38349	4.43514
Cyp39a1	chr17:43804373-43888380	11.38127	8.009353333
Tmem231	chr8:114435917-114457691	11.38059333	4.676843667
lkzf5	chr7:138532162-138553992	11.37998	19.9261
Sox2	chr3:34548926-34551382	11.37961333	20.6902
Nbn	chr4:15885113-15919736	11.37466333	9.93376
Fxr2	chr11:69446472-69466799	11.37434	9.511493333
Rfxap	chr3:54607036-54611713	11.37411333	5.704523333
Flcn	chr11:59605252-59623275	11.36873333	12.54461333
Fam118b	chr9:35024549-35075365	11.36141333	35.0967
Vps45	chr3:95803754-95862378	11.36057667	9.949713333
Rabgta	chr14:56334713-56341013	11.36016333	11.87185333
Efcab4b	chr6:127527992-127579956	11.358634	2.873767333
Cadm4	chr7:25267041-25289552	11.34726	18.23963333
Rnf43	chr11:87476588-87549041	11.34548333	14.56628333
Lmbr1	chr5:29556341-29704930	11.34326333	9.458083333
Hectd3	chr4:116667952-116677882	11.34212333	12.19174667
Mettl4	chr17:95126419-95149232	11.33864667	15.03981
AI597479	chr1:43155554-43172791	11.33736667	9.877916667
Itgb6	chr2:60436348-60560660	11.33368667	74.10773333
Dcun1d5	chr9:7184565-7207031	11.33257333	23.7237
BC029722	chr2:155643467-155644939	11.32915667	6.241836667
Nol10	chr12:17355298-17436901	11.32189	6.58695
Megf8	chr7:26102182-26150936	11.31999333	6.300033333

Spryd3	chr15:101946958-101966646	11.31953667	4.395136667
Ces2f	chr8:107471255-107479862	11.31666667	24.009521
Rap1gds1	chr3:138588869-138738163	11.31356667	14.21723333
Fbxo21	chr5:118426778-118460200	11.30953333	17.0562
Wdr75	chr1:45852345-45880458	11.30934	10.18677333
Usp14	chr18:9993612-10030147	11.30636667	13.76084333
Trmt5	chr12:74381396-74387698	11.30422667	11.63281667
Wdr73	chr7:88035608-88046155	11.30264333	21.76753667
Fbxo28	chr1:184243232-184271737	11.29936667	12.67188
Arsg	chr11:109334687-109434643	11.29608	2.73283
Rnf219	chr14:104876750-104921883	11.29430667	8.297416667
Krtap13	chr16:88750989-88751873	11.29017833	17.89106667
Sgsm3	chr15:80808194-80842720	11.29004333	15.58705333
Ing2	chr8:48752531-48760513	11.28739667	9.695753333
Ganc	chr2:120229631-120286588	11.28631333	6.554926667
2310002J15Rik	chr2:25094338-25095417	11.28154667	12.15708667
Nt5dc1	chr10:34023417-34138334	11.27359667	11.70346667
Tmem17	chr11:22412285-22419234	11.26979	6.031356667
Slc29a3	chr10:60174819-60215530	11.26933333	15.07863333
Mfsd4	chr1:133923197-133964639	11.26907667	8.857146667
Lym4	chr13:36070665-36209226	11.26536	9.418586667
Dnajc18	chr18:35830758-35862798	11.2641	9.758733333
Kif9	chr9:110379461-110427678	11.26289	9.39927
Ptgr1	chr4:58978461-58999950	11.26200667	25.94166667
Ankrd13b	chr11:77283988-77303180	11.26038667	19.1787
Tfcp2l1	chr1:120524521-120581745	11.25943333	10.40357667
Nkiras1	chr14:19103655-19116514	11.25576	4.85618
Dhx40	chr11:86582350-86621162	11.25537667	24.5548
Srp54b	chr12:56256090-56290200	11.25314667	11.56853333
Capns2	chr8:95425293-95426308	11.25291667	32.45716667
Tmem146	chr17:56767565-56803879	11.25116333	3.365453433
Noc3l	chr19:38862617-38893727	11.24877333	8.5621
Hist1h4h	chr13:23622912-23623390	11.23938667	2.202573333
Gfod1	chr13:43290887-43399541	11.23846	3.95291
Gfm2	chr13:97907891-97951151	11.23684667	7.126223333
Ptpdc1	chr13:48673240-48720942	11.23406667	2.349903333
Abcb7	chrX:101475903-101609185	11.2277	10.07527667
Tbl2	chr5:135625580-135638532	11.22655667	8.600006667
Ube4a	chr9:44731209-44773683	11.22403333	11.70918667
Thoc6	chr17:23805585-23810737	11.22010667	7.371506667
Yes1	chr5:32913543-32989439	11.21627667	9.582293333
Sprr1b	chr3:92240730-92242701	11.21450333	34.52783333
Gin1	chr1:99666755-99689548	11.20733333	9.642636667
Nudt7	chr8:116657478-116676205	11.20347333	11.95188667
Nln	chr13:104813518-104899694	11.19927333	16.06093333
4930564B18Rik	chr14:76042065-76066944	11.19908667	0
Chdh	chr14:30822185-30853652	11.19601333	9.686266667
Dusp3	chr11:101832457-101846105	11.19386333	3.854843333
Zcchc17	chr4:129993328-130037190	11.19139333	10.59722
Timp2	chr11:118162374-118216725	11.18965	41.4399
Slc5a3	chr16:92058566-92087718	11.18680667	6.196103
Mrp144	chr1:79772592-79778020	11.17716667	11.17131

Smagp	chr15:100451770-100467296	11.16642667	25.6751
Fam83h	chr15:75831521-75844766	11.16401333	12.45363
Pcdhgb6	chr18:37901747-38001526	11.16244333	2.3372
Dexi	chr16:10530299-10543147	11.16097333	13.64023
Pfdn4	chr2:170321927-170344570	11.15578333	4.401596667
Cr1s1	chr2:132672401-132692504	11.15282667	47.2271
Gm17066	chr14:105505944-105513893	11.15057	15.40003333
Cnn2	chr10:79451344-79458145	11.15019	13.06662333
Rgs12	chr5:35292096-35376242	11.14661333	9.156576667
Tgs1	chr4:3502025-3543770	11.14592667	21.97643333
Senp1	chr15:97869174-97924000	11.14243	10.0126
Mios	chr6:8159226-8186273	11.13726667	12.54844667
P2rx4	chr5:123157565-123179051	11.13515333	14.6876
Ctps2	chrX:159339491-159472473	11.13507667	11.31647
Adk	chr14:21871795-22267791	11.13255	16.35913333
Ints7	chr1:193399612-193445570	11.13203667	14.3328
Oas1a	chr5:121346265-121357534	11.12800333	8.703606667
Zfp263	chr16:3744098-3750788	11.12731667	12.68484
Fam98c	chr7:29937528-29941229	11.11653333	10.98139333
Ccnh	chr13:85329081-85353328	11.11410333	5.89808
Btd	chr14:32454242-32481383	11.11067333	4.2039237
Rint1	chr5:23293561-23326187	11.10877667	7.702673333
Oxnad1	chr14:32898913-32916389	11.10546	3.26696
Stamp	chr6:83493199-83522498	11.10520667	17.05236667
Rhoq	chr17:87362450-87399409	11.09825	6.76105
Cog4	chr8:113370923-113406134	11.09780333	8.87563
Sowaha	chr11:53290079-53293697	11.09650667	11.41839067
Rev1	chr1:38109630-38186507	11.09362	10.50239
H2-K2	chr17:34111603-34115736	11.09351333	3.388146667
Ankrd33b	chr15:31221234-31297514	11.09313333	22.09373333
Hsd3b7	chr7:134944122-134947316	11.08715667	24.3339
Pcmt2	chr2:181572607-181592155	11.08246667	11.58347
Samd9l	chr6:3322256-3349571	11.08113667	8.502146667
4930590J08Rik	chr6:91854226-91900719	11.0801	2.041025333
Ttc7b	chr12:101538979-101759032	11.07649	10.29537333
Wbp11	chr6:136762174-136776737	11.07582667	13.557
Acp1	chr12:31578190-31596477	11.07164667	11.91249
Cpt2	chr4:107576586-107596194	11.07153333	7.057776667
Slc39a13	chr2:90901947-90910378	11.06637667	10.62627333
Ern1	chr11:106258933-106349110	11.06480667	11.33541667
Zfp238	chr1:179374791-179380897	11.05726	11.52159
Calu	chr6:29298118-29326675	11.05695	20.08766
Mapk8	chr14:34191083-34260344	11.05646667	10.39311667
Ift46	chr9:44581091-44600797	11.05330667	12.34974333
Zufsp	chr10:33646741-33671018	11.05322667	8.142906667
Kctd15	chr7:35424035-35437860	11.04924	16.62649
Zfp397	chr18:24113188-24123171	11.04699667	14.96733333
Tmem104	chr11:115048800-115108339	11.04687	9.44754
5730528L13Rik	chr4:48552817-48574792	11.04414333	16.66918667
Cdca3	chr6:124780193-124783719	11.03957	3.412633333
Tbc1d14	chr5:36833252-36928875	11.03929667	12.64736
2310001H18Rik	chr3:92770982-92772203	11.03914833	38.44983667

Nphp1	chr2:127566467-127614590	11.03434	8.034013333
2610029I01Rik	chr4:21684528-21694358	11.03152667	5.26831
Habp4	chr13:64263173-64287845	11.02433	8.160526667
Amz2	chr11:109287259-109299462	11.01201	17.49009667
Szt2	chr4:118035344-118081868	11.00933667	6.855226667
Pdlim4	chr11:53868429-53882519	10.99724	12.93808333
Rabep2	chr7:133572280-133589421	10.99214	6.407286667
Slc12a9	chr5:137755785-137774810	10.98550667	11.28246667
1700056E22Rik	chr1:185856910-185857877	10.9845	4.023973333
Cxx1c	chrX:50911098-50912311	10.98302	9.944706667
Zfp827	chr8:81552335-81717665	10.97893667	23.84633333
Ptp4a1	chr1:30997147-31006600	10.97879667	16.55636667
Purg	chr8:34496796-34527941	10.97691333	5.466786667
Polr2l	chr7:148657758-148661052	10.97680667	9.311646667
Sufu	chr19:46471407-46561150	10.97398	3.293067667
Pex3	chr10:13243647-13272948	10.97208	14.6336
Ifngr1	chr10:19311763-19330031	10.97128667	17.0609
Uggt1	chr1:36196872-36301147	10.96882	14.0624
Sestd1	chr2:77018396-77118649	10.96324667	4.488203333
Mapk12	chr15:88961013-88971133	10.96219333	25.94451333
Atg4a	chrX:137491455-137598813	10.95857333	12.13929667
Gpatch2	chr1:189039389-189175308	10.95704333	10.70731
Cul2	chr18:3383222-3436698	10.95625333	12.36267
Ormdl2	chr10:128254512-128258687	10.955	16.0319
Rsc1a1	chr4:141239477-141241631	10.95496686	4.362722018
Pcdhb18	chr18:37649118-37654157	10.95471	3.433595667
Kctd9	chr14:68334154-68360367	10.95075	7.69853
Fbxo32	chr15:58007433-58046447	10.94882	8.359246667
Zfp192	chr13:21605089-21622983	10.94830667	9.60661
Col27a1	chr4:62876445-62996024	10.93249333	1.817161667
Zscan21	chr5:138558132-138575487	10.92969333	12.22115667
Zfp87	chr13:67616717-67627167	10.92612333	6.904926667
Prpf40b	chr15:99125839-99147438	10.92401333	8.840893333
Thoc3	chr13:54560197-54570201	10.91662333	13.80542333
Morc3	chr16:93832365-93876318	10.91576667	9.958723333
Dtnbp1	chr13:45017448-45097465	10.91294333	15.06586
Idi1	chr13:8884851-8891642	10.91254	28.2278
Anpep	chr7:86966688-86987238	10.90836	11.04726333
Zfp280c	chrX:45894802-45947629	10.90741333	15.12791
Lymr2	chr4:32887233-32889229	10.90035233	2.310892667
Cdk2ap2	chr19:4097350-4099017	10.89749	20.4814
Muted	chr13:38694574-38726978	10.89488667	4.564281333
D3Ertd751e	chr3:41546539-41562861	10.89488	5.967331
Cops8	chr1:92499999-92509916	10.88807333	7.167183967
Hist1h2be	chr13:23675538-23712993	10.88387	4.244613333
2810002N01Rik	chr12:112951479-112993266	10.88153667	9.25045
Zfp955b	chr17:33426488-33441634	10.87157	16.2013
Mtg1	chr7:147323462-147336685	10.87069	4.728636667
Xrcc6	chr15:81846798-81870514	10.86693333	7.604983333
Kcns3	chr12:11097007-11157648	10.85871333	9.902803333
Atp5sl	chr7:26404511-26410569	10.8587	13.85410333
Fkrp	chr7:17394615-17402081	10.85632667	23.20923333

Enpp2	chr15:54670452-54751701	10.85344	19.94783333
Pbld2	chr10:62487259-62521560	10.85307967	4.903136667
Pim1	chr17:29627989-29632404	10.85302333	17.33083333
Agfg2	chr5:138092081-138125921	10.84844	11.88055
Sap30bp	chr11:115794972-115826848	10.84813667	9.699646667
Psat1	chr19:15979612-15999549	10.84606667	25.72383333
Exosc2	chr2:31526256-31536827	10.84602333	2.915526667
Mif4gd	chr11:115469232-115474283	10.84378333	16.96888333
Hs3st1	chr5:40005173-40035870	10.84011667	2.976915667
Dffa	chr4:148478261-148494759	10.83547333	17.14857333
Galnt3	chr2:65920822-65962850	10.8347	9.776513333
Tmem139	chr6:42211968-42214554	10.8279	1.149033333
Fam198b	chr3:79689851-79750200	10.82557333	0.592147
Edc4	chr8:108404850-108417107	10.81361	7.436666667
Hs2st1	chr3:144094070-144233180	10.8131	26.65906667
Tipin	chr9:64129413-64152599	10.80855	6.586547667
Dcaf17	chr2:70893800-70937199	10.80497333	12.37712667
Mx1	chr16:97668641-97684513	10.80210667	0.650487333
Pole3	chr4:62184834-62186048	10.80069667	15.74340667
Pard6b	chr2:167906503-167926703	10.79873333	16.02863333
A830080D01Rik	chrX:155970599-156031013	10.79758667	11.12268333
Sumo3	chr10:77068978-77081076	10.79200333	20.39173333
Naa25	chr5:121847990-121890122	10.79164	9.561383333
Slc25a44	chr3:88214417-88229061	10.78786667	12.41256667
Ces1b	chr8:95580625-95603916	10.78724	6.499853333
Tmed3	chr9:89594040-89599881	10.78426667	24.13146667
Furin	chr7:87534079-87550317	10.78202	14.75093333
Pde7a	chr3:19125917-19211322	10.78046333	12.59639333
Kat2a	chr11:100566059-100573781	10.76646	21.36906667
Mfhas1	chr8:36650851-36742503	10.76417	10.45495333
Timm44	chr8:4259730-4275905	10.75982	18.42906
Mob2	chr7:149194457-149246939	10.75928	8.022258333
Cep68	chr11:20127039-20149427	10.74929	13.9053
Ahr	chr12:36182650-36219661	10.74531667	15.52795333
Tgfbra1	chr1:43104113-43155467	10.74207333	6.13914
Hist1h2bn	chr13:21845991-21846372	10.74116667	14.19872333
Smarcad1	chr6:64992660-65066043	10.73575	15.509
Mmp11	chr10:75385968-75395208	10.73496	9.579729867
Pdk1	chr2:71711328-71741915	10.73346333	8.361393333
Nek3	chr8:23238754-23276907	10.73049333	6.296026667
Usp37	chr1:74482083-74590860	10.73008667	12.52630333
Zfp180	chr7:24866962-24892234	10.72781667	17.0024
Chml	chr1:177612368-177618484	10.72749	13.62338667
Asb7	chr7:73789456-73834447	10.72721333	12.98886667
Hccs	chrX:165749462-165758275	10.72303667	11.63640667
Fbxo8	chr8:59029930-59072736	10.72241	10.97646333
Tchp	chr5:115157787-115172336	10.71993333	6.989143333
Zbtb7b	chr3:89181567-89197125	10.71570667	13.32992
Sh3gl1	chr17:56156172-56176060	10.71274	16.60933333
Znhit3	chr11:84724456-84729858	10.71126667	15.11429667
AU040320	chr4:126430798-126546938	10.71049667	15.42273333
Naa50	chr16:44139921-44163477	10.70894	15.06209

Nfic	chr10:80858935-80889918	10.70866	9.231016667
Socs3	chr11:117827400-117830680	10.70763333	4.494836667
Ecsit	chr9:21876689-21889871	10.70485333	8.654346667
Ppp1r12b	chr1:136662519-136852517	10.70292	8.13257
Nubp1	chr16:10412030-10424518	10.7029	10.4791
Slc4a8	chr15:100592177-100654402	10.6953	4.88648
D330023K18Rik	chr2:31006568-31007811	10.695015	0.18615
Pgls	chr8:74116082-74120166	10.69396667	22.38594333
Nsdhl	chrX:70163859-70203867	10.67848667	18.81601667
Zfp639	chr3:32409471-32419755	10.67827	12.76685333
Pop4	chr7:39047838-39056367	10.67699333	6.283177667
Ptdss1	chr13:67033765-67099337	10.67344	10.62893667
Mis12	chr11:70833112-70840636	10.66932667	12.52494
Ccdc84	chr9:44218246-44226090	10.66777667	18.06932333
lpmk	chr10:70810540-70848633	10.66580667	9.347316667
Keap1	chr9:21034173-21043776	10.66369	7.129043333
Zfp592	chr7:88138569-88190048	10.65876333	10.54884667
2900092E17Rik	chr7:134158564-134160866	10.65790667	11.91351333
Mfsd8	chr3:40622093-40650776	10.65718667	9.26956
Apool	chrX:109425016-109486039	10.65626667	13.62063667
Nek4	chr14:31764673-31800587	10.65608333	6.090906667
Mtm1	chrX:68463941-68568470	10.65495333	5.257406667
Bcas1	chr2:170172490-170253345	10.65443	3.871607333
Sgk3	chr1:9788210-9892649	10.65327	11.45272
Tnk1	chr11:69664064-69672232	10.65032333	9.165786667
Rpgr	chrX:9735341-9793921	10.64204333	7.785683333
Ints10	chr8:71317852-71351543	10.64027	11.87778333
Pdcd5	chr7:36427003-36432501	10.63896667	10.96381667
Slc25a36	chr9:96977429-97011460	10.63879667	18.58653333
Tada2b	chr5:36816318-36826934	10.63777333	9.171886667
Rad51l3	chr11:82686566-82704117	10.63658333	9.08582
H2-T24	chr17:36142639-36157505	10.63286667	9.54795
Fbl	chr7:28954766-28964288	10.62674667	7.757166667
Ier5	chr1:156943496-156946766	10.62430333	20.55333333
Rptor	chr11:119464308-119760905	10.62094	12.3012
Chn2	chr6:53989925-54251806	10.61722333	51.58623333
L3mbtl2	chr15:81494365-81518735	10.61464333	5.578936667
Lypd5	chr7:25134242-25138852	10.61200667	37.14353333
Smarca5-ps	chr4:145054112-145057864	10.60518333	4.494903333
C2cd2	chr16:98076815-98144243	10.59942	8.550253333
Nubp2	chr17:25019555-25023295	10.59735	14.08883333
Stam	chr2:13995738-14069957	10.59474	12.8119
Mthfs	chr9:89106027-89135063	10.5896	8.511343333
Renbp	chrX:71167459-71176189	10.58201	3.798819
2210016F16Rik	chr13:58481406-58486586	10.57885667	10.89018667
E030024N20Rik	chr19:16238587-16244948	10.57540667	13.5275
Dtd1	chr2:144425688-144594483	10.56764667	26.56246667
Fam160a2	chr7:112519724-112548568	10.56756	4.89918
Tmem18	chr12:31269307-31276084	10.56572667	2.45332
Lcmt1	chr7:130521495-130573872	10.56435	5.447243333
Tsc22d4	chr5:138187196-138209681	10.56013667	8.34329
Ofd1	chrX:162827964-162878636	10.55608333	9.774326667

Tmub1	chr5:23951280-23953664	10.55561	8.000236667
Jkamp	chr12:73186825-73202514	10.55100333	8.596426667
Cenpc1	chr5:86441049-86494608	10.54906333	14.77536667
Tfdp1	chr8:13339673-13377702	10.54782667	20.04466667
Prkrir	chr7:105851872-105866571	10.53819667	15.20703333
Tmem68	chr4:3476187-3501915	10.53659333	13.56045333
1190002N15Rik	chr9:94418282-94438500	10.53457333	11.4617
Crtc1	chr8:72906256-72963472	10.53152	15.12036667
Myef2	chr2:124912006-124949396	10.52701667	25.48176667
Pcdhb5	chr18:37480034-37483567	10.52547333	7.295453333
Dis3l2	chr1:88600378-88946672	10.52381333	7.580506667
Trappc9	chr15:72420049-72891634	10.52160667	9.763676667
Arrb1	chr7:106683995-106755281	10.52018333	15.79666667
Zfp133-ps	chr2:144285015-144293530	10.51838	10.3476
Dnajc6	chr4:101169252-101315404	10.51487667	15.2694
Stard7	chr2:127095964-127124670	10.51386667	19.34973333
Kctd17	chr15:78259057-78269733	10.51262667	8.231263333
Ap1s1	chr5:137510863-137521930	10.51247	8.88485
Commd10	chr18:47118529-47247648	10.50461333	16.94961667
Zfp825	chr13:74617504-74631398	10.50391667	7.499233333
4922501L14Rik	chr3:154374096-154411976	10.49957333	5.720939667
Pias2	chr18:77303946-77394447	10.49942333	27.8611
AU023871	chr17:35199637-35203129	10.49920333	16.03934667
Tmtc1	chr6:148180951-148392874	10.49482	10.65115333
Hars	chr18:36926181-36942859	10.49025333	16.04896667
Fmn1	chr2:113167892-113556924	10.48922667	8.055733333
Nuak2	chr1:134212701-134230065	10.48758667	22.1551
Sdcbp2	chr2:151398367-151415735	10.48542	2.536748333
Axin1	chr17:26275630-26332756	10.48030333	13.45223333
Fam20b	chr1:158608701-158649041	10.47579	12.583
Cxx1a	chrX:50945665-50946940	10.47428667	4.36093
	10-Sep chr5:93522482-93603984	10.47390333	16.95943333
Tprkb	chr6:85865712-85880278	10.47171	7.869366667
Sdhaf1	chr7:31106427-31107394	10.46985333	29.25486667
Parp6	chr9:59465090-59498097	10.46627	10.42608
Tiprl	chr1:167142416-167167089	10.46550667	7.195756667
Spg7	chr8:125589407-125621651	10.46263	12.94138333
Nod2	chr8:91171245-91212373	10.45103333	7.169983333
Camsap3	chr8:3587449-3609075	10.45023333	19.464
Atg2b	chr12:106851748-106923451	10.45002	9.959566667
Txlng	chrX:159216850-159267331	10.44757667	11.5656
Tbp	chr17:15636851-15654391	10.44631667	8.43275
B230217C12Rik	chr11:97702093-97704357	10.44409333	0.841420667
Hmg20b	chr10:80808790-80813202	10.44157667	8.136636667
Mtmr6	chr14:60884041-60921208	10.43855	9.59879
Mrps25	chr6:92119516-92134017	10.43508	4.256616667
Fam53c	chr18:34918559-34933414	10.43392	19.26316667
Cbr3	chr16:93683463-93691236	10.43232	25.34036667
1110014N23Rik	chr19:6067841-6077187	10.43147	18.05333333
Wdr45	chrX:7299374-7305327	10.42954667	9.616243333
Fndc1	chr17:7931432-7997839	10.42925667	13.06567333
Hspa14	chr2:3406125-3430086	10.42157667	6.802536667

Nde1	chr16:14163367-14193016	10.42121233	11.94974667
A330032B11Rik	chr19:37248332-37271031	10.41949333	0.123327533
Thra	chr11:98603186-98626425	10.41723667	12.17916333
Mrc1	chr2:14151040-14253650	10.41619333	0.135019933
Osbpl8	chr10:110601857-110734303	10.41564	11.50771
Snopc2	chr8:4253101-4256220	10.41191667	7.159374333
Frat2	chr19:41920464-41922622	10.41069	13.88445333
Dcun1d1	chr3:35791026-35831888	10.40482667	12.08833667
6230409E13Rik	chr4:21858472-21928608	10.40444667	14.8656
Mdfic	chr6:15670660-15752169	10.40218	3.062706667
Yeats2	chr16:20141135-20232646	10.39999	13.23991
Tubgcp2	chr7:147181853-14722249	10.39418333	9.847186667
Dirc2	chr16:35694988-35769442	10.39182	10.89389667
Vps11	chr9:44156187-44169753	10.38703667	9.509383333
Clstn1	chr4:148960746-149022008	10.38602667	15.60935
Ankzf1	chr1:75188708-75195960	10.38586	3.960236667
Rbm34	chr8:129471072-129494979	10.38584667	8.598613333
Abca2	chr2:25284193-25304059	10.38572667	13.0316
Mllt3	chr4:87415828-87679311	10.38167333	21.44946667
Gstcd	chr3:132645514-132754704	10.38135333	10.98712
Mex3d	chr10:79843099-79850396	10.38001	7.35739
Stoml2	chr4:43040561-43044256	10.37863667	7.955686667
D3Ert254e	chr3:36050001-36069263	10.37596667	7.37489
Arfgap1	chr2:180701929-180717229	10.37553333	19.41956667
Ado	chr10:67007258-67011703	10.37357667	7.569186667
Arfgef2	chr2:166631080-166723551	10.35435333	10.98436
Adam17	chr12:21329369-21379452	10.34757	11.39564333
Fhod3	chr18:24867945-25292002	10.34616333	1.611446467
Mblac2	chr13:81850415-81892274	10.34462667	7.315923333
Fam100b	chr11:116295407-116300391	10.34366667	6.8581
Pigf	chr17:87396598-87424741	10.33959667	7.871616667
Vezt	chr10:93430844-93498493	10.33554	10.34267667
Idh3a	chr9:54434317-54452469	10.33538	16.02243333
Osbpl3	chr6:50243325-50406169	10.33427	7.284283333
Phb	chr11:95528270-95542087	10.33339	8.30552
Mnat1	chr12:74224703-74374975	10.33117333	8.833926667
Wdr20b	chr12:66326503-66329441	10.33021	0.659148333
Exoc7	chr11:116149311-116168052	10.32934667	8.526796667
D130017N08Rik	chr5:144519222-144525811	10.32887	1.692596667
1810026B05Rik	chr7:80684683-80703281	10.32844667	11.25799
Leng9	chr7:4099784-4101474	10.32755	2.850846667
Zfp105	chr9:122832195-122840146	10.32624333	5.291533333
2210403K04Rik	chr11:75275040-75280192	10.32452333	4.210276667
Rbp1	chr9:98323379-98346969	10.32272	8.10989
lsg20l2	chr3:87734235-87744608	10.32201667	14.16992667
2410089E03Rik	chr15:8119105-8221158	10.31642	10.59160333
Gnl1	chr17:36116899-36126407	10.31227667	4.742592
Psmg1	chr16:96201541-96212510	10.30844	21.75046667
Trmt61a	chr12:112916315-112922113	10.30455	4.61019
Flad1	chr3:89206594-89215785	10.30426333	5.865013333
Eml6	chr11:29643050-29926033	10.29662333	5.21369
9130023H24Rik	chr7:135377964-135381545	10.29477667	11.926386

E2f4	chr8:107821562-107829270	10.29301667	11.35854333
Itgb5	chr16:33829750-33949424	10.28959667	11.30574333
Fam45a	chr19:60887472-60912132	10.28737667	4.458893333
Rangrf	chr11:68785988-68787322	10.281556	4.301286667
Tmem55a	chr4:14791365-14842407	10.28010667	10.92874
Tnfrsf1a	chr6:125299740-125312501	10.28007333	9.808643333
Cdk9	chr2:32561301-32568304	10.27393333	10.86494
Snx15	chr19:6119403-6128215	10.27393	15.2464
Ndst1	chr18:60845629-60873043	10.27102	11.09565
Mtor	chr4:147822690-147931794	10.26591667	14.37885667
Ptbp2	chr3:119421659-119486306	10.25896	17.45100667
Mrpl55	chr11:59016018-59019504	10.25619667	13.90406667
Usp54	chr14:21368133-21437576	10.25191	9.63382
6330409N04Rik	chr14:62153141-62175723	10.25066	19.75453333
Sh3rf1	chr8:63702967-63874869	10.24373	8.68061
Prss8	chr7:135069230-135073627	10.23746	14.6425
Ube3a	chr7:66484119-66562097	10.23288	13.29145333
Tmed1	chr9:21311823-21314630	10.22574	6.489253333
Cd2bp2	chr7:134335173-134339514	10.22421	9.850836667
Idua	chr5:109098124-109113577	10.21699667	6.593216667
BC024978	chr7:27980799-27989339	10.21234667	9.305664
Slc44a4	chr17:35051410-35067381	10.20867667	12.02911
Rpusd1	chr17:25864695-25868401	10.20771	5.392606667
Fam166a	chr2:25074264-25077801	10.20502667	22.05949
Ctsc	chr7:95426602-95459385	10.20312333	43.58383333
Aox4	chr1:58267240-58325440	10.20086	20.65236667
Tmem106a	chr11:101443555-101453099	10.19969	14.76408
Ccrl1	chr9:104000467-104028973	10.19837333	2.196724333
Ksr2	chr5:117864010-118217997	10.19710667	5.867936667
Dos	chr10:79593178-79602112	10.19304	22.55723333
1110051M20Rik	chr2:91117984-91284799	10.19233667	7.693963333
Acrbp	chr6:124999944-125013283	10.19169667	10.01223667
Cdk5	chr5:23924059-23929348	10.19154333	8.328856667
Wdr82	chr9:106073259-106094037	10.19099333	18.25882333
Maml3	chr3:51491534-51908928	10.18777333	17.18716667
Uap1	chr1:172072133-172105077	10.18657333	9.62756
Hmgcr	chr13:97418918-97440891	10.18443333	27.34123333
4930405J17Rik	chr10:19919052-19921660	10.18123333	8.752886667
St6galnac3	chr3:152865472-153388097	10.17839667	4.327042667
Ctnnd2	chr15:30102347-30959098	10.17752333	10.95120333
2010106G01Rik	chr2:126716130-126758971	10.17594667	18.3442
Zbtb9	chr17:27110123-271113148	10.17377333	7.156536667
Casp6	chr3:129604342-129617020	10.17221333	16.2967
1110018J18Rik	chr13:64393143-64414018	10.17006	15.91850333
Plxna4	chr6:32094558-32538192	10.16893	27.99673333
1700021K19Rik	chr16:32821787-32868452	10.16669	8.25298
Mrps10	chr17:47505835-47515628	10.16659333	11.09067
Pop7	chr5:137942666-137943657	10.15361667	7.797850333
Elf4	chrX:45764225-45816309	10.15202667	4.779923333
Timm8a1	chrX:131071796-131076168	10.14957333	15.13405667
Th1l	chr2:174241304-174253003	10.14059667	22.29583333
Dsg1b	chr18:20535335-20568242	10.13867	64.8479

Bst2	chr8:74058160-74061336	10.1384	10.08076667
Rab3gap1	chr1:129765349-129840453	10.13838	8.371643333
Depdc5	chr5:33206369-33336882	10.13338	9.683523333
Dpm1	chr2:168034547-168055879	10.13161333	13.85094667
Ube2q2	chr9:54997175-55055336	10.12382333	9.90529
Clns1a	chr7:104845166-104869303	10.12364333	16.66796667
Sdr42e1	chr8:120185298-120195415	10.11941	7.130017667
2610528J11Rik	chr4:118199879-118202822	10.11939667	13.05559567
Mtx1	chr3:89013002-89018257	10.11466333	4.48086
Aldh6a1	chr12:85771667-85791900	10.11386	7.712853333
H2afv	chr11:6327228-6344446	10.11339	11.57347667
Nup155	chr15:8059312-8109859	10.10900333	6.542666667
Sertad1	chr7:28271971-28275333	10.10731667	16.80127667
Riok2	chr17:17511295-17531863	10.10657333	6.643936667
Hspb11	chr4:106926538-106952493	10.10276667	15.79997
Pkp3	chr7:148264127-148276409	10.10201333	24.05146667
Mepce	chr5:138223133-138227929	10.10196333	16.10276667
Rabif	chr1:136391236-136404461	10.10062	14.38449667
Wdr67	chr15:57743753-57801623	10.09766333	6.435996667
Fam129a	chr1:153418502-153566477	10.09702333	0.216505667
Slc35c2	chr2:165102021-165113338	10.09261333	12.81451667
Atp7a	chrX:103222614-103323499	10.09126	13.93443333
Zfp7	chr15:76709705-76722824	10.08979	19.79486667
Zfp318	chr17:46520714-46557867	10.08948667	16.00506667
Pigg	chr5:108741943-108777798	10.08866	2.737773333
Cyp20a1	chr1:60400215-60444231	10.08744	15.23015667
Gltscr1	chr7:16556610-16584844	10.08127667	13.16375333
Acad11	chr9:103966032-104029976	10.07808	5.901722333
Neur14	chr11:69715379-69727324	10.07805	7.981133333
Tubb4a	chr17:57219488-57227205	10.07583	56.53233333
Yrdc	chr4:124528002-124532486	10.07516	15.63184
Hist1h2bj	chr13:22135098-22135479	10.07486667	16.14053333
Fut1	chr7:52872975-52876427	10.07151333	4.708126667
Sim2	chr16:94085504-94348638	10.07052333	12.06208667
Rqcd1	chr1:74552633-74577416	10.07002	6.014336667
Gmeb1	chr4:131776939-131817464	10.06527667	11.04426667
Pxn	chr5:115956710-116005995	10.06464667	11.43699667
Zfp810	chr9:22081191-22112082	10.06458333	5.732613
6030458C11Rik	chr15:12737931-12754412	10.06192333	11.83294667
Mocs1	chr17:49567688-49594755	10.05831667	15.23960667
Zbtb6	chr2:37281019-37286439	10.05746333	10.36779
Ctsz	chr2:174252994-174264493	10.05714	25.1028
Lpar6	chr14:73637697-73640165	10.05661333	10.17851333
Zswim1	chr2:164648185-164652367	10.05328	5.059253333
Ficd	chr5:114185790-114190616	10.04603333	6.504326667
Ino80e	chr7:133995946-134004977	10.04383333	5.235363333
F2rl1	chr13:96281683-96295195	10.04366	7.54809
Coq4	chr2:29643782-29653263	10.04030667	9.04021
Sh3pxd2a	chr19:47334663-47538901	10.03863	22.3826
Kctd2	chr11:115281439-115292588	10.03229333	21.64067667
Ccdc64b	chr17:23797489-23805586	10.02948	8.01411
Utp14a	chrX:45610110-45635626	10.02902333	17.05454

Ldhd	chr6:142438768-142456463	10.02539667	11.83553667
Prss37	chr6:40464822-40469507	10.02014667	4.55164
Wdr70	chr15:7823054-8049209	10.01878	3.679597667
2810002D19Rik	chr2:94246863-94251837	10.01807667	5.570313333
2310037I24Rik	chr15:98349531-98364652	10.01661	8.69317
Gimap1	chr6:48689045-48693794	10.01388333	0.087145
Cyp4v3	chr8:46391155-46418550	10.01376333	4.725532333
Ifnar1	chr16:91485459-91510767	10.01246667	8.826766667
Rnaseh2a	chr8:87480508-87489910	10.01199667	2.988945667
Dkc1	chrX:72341192-72355115	10.00973	13.79922
Ccm2	chr11:6446889-6496764	10.00872667	11.60038667
Lrrc57	chr2:120429973-120435244	10.00152667	11.25221
Zfp715	chr7:50551892-50568631	9.997846667	8.849146667
4933427D14Rik	chr11:71967598-72016873	9.98378	8.524673333
Atf7	chr15:102367074-102455852	9.983523333	6.639936667
Zfp61	chr7:25076064-25084568	9.98003	7.778956667
Tep1	chr14:51443735-51490229	9.977503333	4.942016667
Cdkal1	chr13:29417174-29947457	9.976903333	21.38043333
St3gal5	chr6:72047606-72104564	9.976043333	2.483516667
Prp2	chr6:132545963-132550720	9.973806667	0
Zfp422	chr6:116574033-116578995	9.96759	18.28083333
Tm2d2	chr8:26127682-26133732	9.966496667	46.91333333
4930455C21Rik	chr16:38497924-38522747	9.959573333	11.48211333
Usp45	chr4:21703416-21765019	9.958146667	5.268756667
Mal2	chr15:54402920-54434401	9.956163333	18.17223333
Mrpl21	chr19:3283046-3292837	9.952556667	7.66438
Pdf	chr8:109570189-109572514	9.949683333	11.50727333
Mthfd2	chr6:83255697-83267598	9.948656667	2.91895
Nol11	chr11:107027974-107050695	9.946263333	11.51321667
Zfp428	chr7:25292105-25300701	9.941493333	30.46593333
Casp7	chr19:56471618-56516833	9.932103333	1.815721233
Syt11	chr4:132809004-132819002	9.931096667	24.96379333
Pdcd11	chr19:47165255-47205635	9.92424	7.88168
Ing3	chr6:21899614-21926037	9.923783333	4.702546333
Ttc4	chr4:106334412-106351549	9.919646667	18.32803333
Serac1	chr17:6040570-6079739	9.919153333	9.851103333
Cbll1	chr12:32169693-32184481	9.91908	17.62676667
Yipf2	chr9:21393125-21397275	9.918916667	31.08326
Coro1c	chr5:114292447-114358715	9.916316667	20.75916667
Acbd4	chr11:102963001-102973513	9.913443333	1.775077
Fam76b	chr9:13632170-13650966	9.913273333	9.396363333
Nt5m	chr11:59661574-59690035	9.912946667	11.84973667
Pex1	chr5:3596065-3637101	9.912506667	8.620973333
Ap1m1	chr8:74764030-74781278	9.91182	9.146523333
Btbd2	chr10:80105361-80119816	9.907563333	8.08375
Ubxn8	chr8:34730057-34752448	9.905536667	10.78449667
Myo19	chr11:84693721-84724633	9.90473	12.47123333
Mtpap	chr18:4375589-4397328	9.895363333	23.413
Prpf4	chr4:62069816-62088024	9.890186667	8.838706667
Cacna2d3	chr14:29718128-30535050	9.888346667	0.535027
4933439F18Rik	chr11:60230646-60258779	9.88571	11.6975
Ppp6r2	chr15:89041989-89116692	9.879523333	8.704436667

Zfp608	chr18:55047698-55149834	9.87929	5.04361
2310040G24Rik	chr6:86433369-86438221	9.873283333	4.931883
1700096K18Rik	chr5:25035835-25037284	9.872516667	1.319124
Prmt3	chr7:57033727-57113635	9.870083333	5.523793333
Myo9a	chr9:59598980-59776673	9.867426667	9.18013
lfi44	chr3:151393886-151412923	9.865793333	5.228393
Ptcd1	chr5:145908246-145927973	9.86541	2.568436667
Ccdc109b	chr3:129617877-129673124	9.85972	11.91830667
1110002N22Rik	chr11:79950179-79955655	9.85745	2.347096667
Slc38a6	chr12:74387834-74455032	9.855	14.50765333
Dcn	chr10:96942133-96980796	9.854014	44.94876667
Zfyve1	chr12:84887890-84938097	9.853546667	8.753627
Aaas	chr15:102168677-102181190	9.85264	12.31313667
Fbxo3	chr2:103867955-103903394	9.85258	9.303966667
Coq7	chr7:125668575-125676827	9.850246667	32.58246667
Grpel2	chr18:61872077-61885985	9.848383333	16.84320667
Tfpt	chr7:3571925-3581486	9.840646667	10.45727
Lmf2	chr15:89181434-89186090	9.840603333	14.9362
Vps33a	chr5:123978768-124023024	9.839793333	17.73085667
Pigx	chr16:32084501-32099813	9.83139	10.55177333
Hltf	chr3:19957810-20018376	9.829853333	9.391406667
Cxcl2	chr5:91332924-91334964	9.827346667	12.07494
Tmem199	chr11:78320556-78325670	9.826466667	8.745333333
Rexo4	chr2:26809082-26819906	9.82298	8.507096667
Nelf	chr2:24909898-24918401	9.820263333	9.936946667
Sec23ip	chr7:135888383-135928349	9.81751	9.041763333
Clec16a	chr16:10545431-10744971	9.816126667	7.124306667
Senp5	chr16:31959755-32003373	9.814073333	7.15262
Slc31a2	chr4:61947478-61959445	9.81097	34.30296667
Gtf3c3	chr1:54454424-54495815	9.809793333	9.93302
Tnfrsf12a	chr17:23812411-23814416	9.791896667	10.94802333
Ube2a	chrX:34414360-34424215	9.782223333	11.08668667
2310034C09Rik	chr16:88759091-88760034	9.78196	7.473959
Nipal3	chr4:135004815-135050419	9.781486667	16.6292
Afap1l2	chr19:56986843-57083065	9.774023333	9.708463333
Usp42	chr5:144471194-144493149	9.77281	8.76485
Prorsd1	chr11:29411756-29415033	9.77277	16.94387333
Thyn1	chr9:26807261-26814919	9.77187	10.86592667
Glrx2	chr1:145586478-145596808	9.770426667	12.9071
Dr1	chr5:108697915-108709540	9.765403333	9.663876667
Gtf2h1	chr7:54051463-54079170	9.76307	7.579166667
Cyb561d1	chr3:107998688-108003752	9.759313333	8.290286667
Iars2	chr1:187110540-187153280	9.759096667	10.49846
Sp4	chr12:119473405-119539913	9.75791	14.93272667
Rab36	chr10:74499833-74516845	9.757883333	10.66182333
0610010F05Rik	chr11:23473775-23533631	9.750806667	14.98006667
Srd5a3	chr5:76569297-76584528	9.74989	3.254973333
Tmem165	chr5:76612904-76638269	9.74928	25.38016667
Vapb	chr2:173563071-173609837	9.74821	8.573333333
Cby1	chr15:79489656-79498090	9.747943333	10.74183
Ctdspl2	chr2:121782188-121839322	9.747583333	8.64888
Rdh14	chr12:10397585-10402368	9.74617	13.70207

Wdyhv1	chr15:57972990-57990209	9.746043333	12.35786333
1810055G02Rik	chr19:3708332-3717881	9.743976667	10.40628333
Oas1g	chr5:121326150-121337607	9.742606667	3.273093333
Hist1h2bf	chr13:23665678-23666059	9.742336667	9.80117
Tnfrsf19	chr14:61582670-61665692	9.74145	21.26723333
Atg9a	chr1:75177439-75188497	9.74131	14.86307
2700054A10Rik	chr17:13679886-13746960	9.74003	2.51383
Car15	chr16:17835368-17838279	9.739923333	4.685503333
Fam189a1	chr7:71900981-72301414	9.73965	0.009366733
Ulk2	chr11:61589099-61668594	9.73433	8.692946667
Pik3r4	chr9:105545324-105589985	9.732653333	10.72389667
2310042D19Rik	chr4:155590035-155595416	9.725513333	7.15004
Impact	chr18:13130760-13151457	9.724236667	10.54730333
4930578I06Rik	chr14:64589958-64606617	9.721623333	1.399356667
Mapkapk3	chr9:107157257-107192208	9.720903333	16.8926
Cdca4	chr12:114058445-114067600	9.714446667	6.31565
Diexf	chr1:194930596-194956445	9.714193333	3.90227
1110054O05Rik	chr4:59782518-59796727	9.71143	7.103816667
Rfwd3	chr8:113794843-113824122	9.708946667	10.93170667
Gpn1	chr5:31797133-31814000	9.708866667	4.942296667
Ddx49	chr8:72816764-72826351	9.70622	4.494433333
Wdr53	chr16:32247312-32257169	9.7054	3.871117333
Timm50	chr7:29090844-29097065	9.704876667	15.94572667
2410004P03Rik	chr12:17011763-17018533	9.704616667	2.235531333
Dynlt1f	chr17:6600795-6610127	9.703793333	12.34228
Ints9	chr14:65568881-65658672	9.700843333	9.103016667
Usp5	chr6:124765036-124779465	9.69996	18.8969
Ndor1	chr2:25100332-25110934	9.699883333	11.27157667
Ddx56	chr11:6157547-6167732	9.696946667	4.414366667
Mttp	chr3:137752818-137806352	9.695986667	1.565916333
Lrp5	chr19:3584824-3686564	9.695673333	10.32179333
Pcyt2	chr11:120471400-120479204	9.68877	10.24365667
Slc16a2	chrX:100892752-101017327	9.686333333	4.959678667
Snip1	chr4:124743936-124751287	9.68412	4.840526667
Phf13	chr4:151363739-151370288	9.68346	15.06415333
Twf2	chr9:106105438-106117718	9.683446667	6.923763333
Kif3c	chr12:3365131-3406494	9.681466667	7.761313333
Dhx29	chr13:113718000-113759395	9.678776667	7.774876667
BC021767	chr3:94464510-94471074	9.676696667	6.30935
Srr	chr11:74719860-74739300	9.67579	5.90934
Nmt1	chr11:102889875-102927419	9.674423333	13.63784667
1810030N24Rik	chr4:34715920-34725586	9.668973333	1.555081333
Tmem218	chr9:37015917-37030796	9.665346667	4.247256667
Stard3	chr11:98219681-98242426	9.662943333	14.08701667
Pef1	chr4:129784799-129805378	9.658726667	11.02538333
Trit1	chr4:122693839-122732177	9.656523333	17.27983333
Nat6	chr9:107482500-107486379	9.655003333	14.01700333
Gm16197	chr17:29194418-29215906	9.654866667	7.772193333
Zfp760	chr17:21844707-21862603	9.650676667	10.30213667
Clcn7	chr17:25270338-25299044	9.650643333	8.176883333
Npepl1	chr2:173935851-173948203	9.650246667	19.5243
Ppcdc	chr9:57260470-57287921	9.647623333	7.521856667

Fzd3	chr14:65811277-65881300	9.647313333	21.9576
Dnajc10	chr2:80155622-80194212	9.641586667	15.27997667
Fam117b	chr1:59969849-60042190	9.64057	16.61206667
Gm15760	chr16:20545184-20548629	9.638803333	4.079256667
Ranbp6	chr19:29882597-29887464	9.631816667	16.08969667
Fundc2	chrX:72627737-72642497	9.630523333	15.09916667
Pes1	chr11:3863977-3880007	9.629313333	6.83224
Rptn	chr3:93197620-93203364	9.62609	62.044
Siva1	chr12:113883038-113887363	9.62536	3.135596667
Foxq1	chr13:31650038-31652843	9.625076667	8.34746
Zfp113	chr5:138580929-138596972	9.623906667	6.44997
Z310034G01Rik	chr19:46422690-46423478	9.623561	1.067753667
Zfp167	chr9:122797588-122805242	9.623113333	5.783343333
Ccdc21	chr4:133685772-133743000	9.621316667	10.23539333
Wdfy1	chr1:79698836-79758344	9.61644	20.93003333
2010107G23Rik	chr10:61570403-61573761	9.61187	4.819316667
Map2k2	chr10:80568691-80587442	9.608953333	21.23668333
Rxfp4	chr3:88455819-88457064	9.60872	10.89100667
1110046J04Rik	chr13:34027900-34052050	9.605933333	2.531283333
Snhg9	chr17:24856475-24856910	9.605056667	18.63303333
Oas1b	chr5:121262643-121274169	9.602123333	0.688662367
Phlpp1	chr1:108068445-108290822	9.59947	12.49926667
Slc39a10	chr1:46864388-46910354	9.59852	19.72189333
Fasn	chr11:120667271-120685861	9.594723333	28.73986667
0610030E20Rik	chr6:72297310-72303154	9.59322	8.910223333
Dhdds	chr4:133524971-133556779	9.589513333	7.244443333
Casp9	chr4:141349526-141371890	9.588393333	11.08496333
Erap1	chr13:74777319-74829323	9.587783333	6.553773333
1810043H04Rik	chr11:119960247-119961738	9.58687	33.50086667
Shc1	chr3:89222472-89233951	9.57951	18.59037
Slc25a13	chr6:5991217-6167173	9.578243333	7.450193333
D19Ertd386e	chr19:42593294-42666746	9.57791	13.62763333
Slc48a1	chr15:97614795-97623123	9.575476667	19.55828
Ttc17	chr2:94140922-94246846	9.569583333	10.91207667
Bace1	chr9:45646611-45670567	9.565053333	8.505873333
Tmprss11e	chr5:87134210-87174832	9.563643333	1.818333667
Cplx2	chr13:54472712-54485278	9.560353333	11.58771
Myo9b	chr8:73796612-73884611	9.558876667	14.294
A230072C01Rik	chrX:20538801-20564475	9.558213333	3.552585
Cenpa	chr5:30969274-30977199	9.55408	12.92949667
Nif3l1	chr1:58504476-58519120	9.551666667	9.2173
Ehd4	chr2:119915222-119980311	9.550846667	10.36385
Dmbt1	chr7:138175589-138265142	9.547759667	79.02683113
Ddb2	chr2:91051738-91077223	9.54562	7.518623333
2210408I21Rik	chr13:77274796-77752940	9.541093333	6.318056667
Tgoln2	chr6:72560950-72566742	9.52710213	0.060484649
Pla2g6	chr15:79116657-79158801	9.526923333	3.241811
Anapc7	chr5:122872452-122894920	9.523086667	11.08946667
Txndc5	chr13:38592143-38620329	9.522163333	9.195186667
Ttc39b	chr4:82866204-82970093	9.51853	10.84920667
Wdr46	chr17:34077667-34086640	9.514046667	9.775756667
Sowahc	chr10:58684669-58689181	9.509333333	8.96129

Arap2	chr5:62993684-63157416	9.50804	9.427896667
Murc	chr4:48676385-48686364	9.50336	9.89338
9030025P20Rik	chr17:15115827-15128541	9.501993333	6.90385
Krtap3-3	chr11:99411445-99412177	9.497663333	14.67002667
Aldh9a1	chr1:169280121-169298661	9.49562	8.451256667
Nub1	chr5:24191632-24216373	9.49529	7.964606667
Zkscan14	chr5:145955814-145962751	9.495006667	2.951486667
Rgp1	chr4:43591606-43600359	9.4939	12.89473333
Cyb5d1	chr11:69207113-69208848	9.488006667	11.26182667
Mrs2	chr13:25084351-25112248	9.48113	13.02344333
Fam190a	chr6:61130318-62332857	9.47453	1.797899333
Tbc1d17	chr7:52096145-52104449	9.473093333	7.227563333
Thsd4	chr9:59814737-60358842	9.469923333	13.17162667
4921536K21Rik	chr11:3786090-3795129	9.46976	1.465853333
Dcp2	chr18:44540153-44584623	9.458856667	8.32868
2410017P09Rik	chr12:4234026-4240123	9.458653333	7.103523333
Polr2d	chr18:31948812-31956355	9.45831	5.425733333
Rbp7	chr4:148823810-148829077	9.454163333	27.55899
Zfp931	chr2:177801582-177813130	9.453553333	8.589796
Tmem8	chr17:26250260-26260198	9.452846667	5.873993333
Akap10	chr11:61684808-61743728	9.451176667	6.22944
Tiam1	chr16:89787355-89974944	9.447083333	18.21366667
Tarbp2	chr15:102348622-102354107	9.443593333	8.057463333
Tanc1	chr2:59450100-59684206	9.440183333	18.51916667
Med25	chr7:52134755-52147736	9.440076667	7.302166667
Lrrc49	chr9:60435043-60535941	9.42665	9.206876667
Htt	chr5:35104388-35255170	9.424976667	7.99603
Spg11	chr2:121879261-121944122	9.42493	8.499623333
Ppm1l	chr3:69120839-69359318	9.42238	6.624303333
Rfx2	chr17:56915319-56970431	9.418896667	10.93168
Sntb1	chr15:55470708-55738504	9.41866	7.049316667
Cttnbp2	chr6:18316476-18464825	9.41811	3.438586667
2410091C18Rik	chr17:79336474-79347392	9.41624	10.12361
Adsl	chr15:80778948-80799803	9.41242	9.65609
Mrpl2	chr17:46783196-46787081	9.410283333	18.49980333
Pcdhb15	chr18:37633199-37635994	9.408836667	3.41084
Wfs1	chr5:37357342-37380221	9.40878	19.07233667
Cnp	chr11:100436252-100443053	9.405833333	5.588806667
Trmt61b	chr17:71906366-71948101	9.405486667	11.42500667
Nab2	chr10:127097973-127103759	9.402023333	20.74263333
Mmachc	chr4:116375038-116380990	9.40106	12.38036433
Ppip5k1	chr2:121136296-121176749	9.39828	11.18393
Zfp458	chr13:67355853-67370004	9.395176667	10.81489333
Dpp9	chr17:56326104-56358312	9.389713333	17.72907
Hdac7	chr15:97623094-97674933	9.389283333	9.25026
Csf2ra	chr19:61300304-61304321	9.38872	10.994151
Gstm4	chr3:107843325-107847777	9.38857	9.665233333
Slc19a2	chr1:166179185-166195499	9.388416667	6.24801
Wdpcp	chr11:21472283-21798689	9.387146667	7.70287
Bcl7a	chr5:123794456-123824092	9.37025	10.40649333
Taf7	chr18:37800144-37803858	9.369686667	8.030533333
Adam9	chr8:26060082-26127394	9.36967	9.487063333

Cmtm3	chr8:106864493-106871572	9.367593333	2.194263333
Sox13	chr1:135278876-135320789	9.3657	14.87213333
Ptpn1	chr2:167757826-167804885	9.365396667	12.07692
Btf3l4	chr4:108486899-108506189	9.363803333	14.09174
BC046404	chr11:62418385-62462025	9.363803333	6.74839
Arhgef18	chr8:3393007-3456600	9.362073333	8.538273333
Rnls	chr19:33212234-33466785	9.35893	5.392263333
Hdgfrp3	chr7:89026141-89079345	9.357846667	6.947333333
Diap2	chrX:126284277-127000369	9.354513333	13.54319
Dut	chr2:125072983-125084785	9.354083333	6.16705
Rrp1b	chr17:32173106-32199807	9.353293333	7.72872
Crbn	chr6:106728238-106750068	9.352023333	9.528486667
Ncdn	chr4:126420993-126430673	9.349316667	8.474153333
2900002K06Rik	chrX:7722552-7725089	9.347476667	6.79168
Prps2	chrX:163784264-163820631	9.34664	10.41380333
Med17	chr9:15064794-15084311	9.345193333	8.49387
Prep	chr10:44787019-44878801	9.34301	19.67866333
H2-DMa	chr17:34272615-34275480	9.342789667	2.221173333
Gm14322	chr2:177493992-177507980	9.34241	1.91317
Fam13c	chr10:69903415-70021480	9.33585	2.217166667
Dnaja4	chr9:54547365-54564124	9.330733333	28.3271
Endog	chr2:30027043-30029589	9.32935	2.256496933
Crnn	chr3:92948708-92953393	9.326516667	12.02807667
Wdr55	chr18:36919892-36923362	9.326016667	8.24471
Ncaph2	chr15:89186152-89203259	9.323703333	6.121396667
Cpne5	chr17:29293465-29374735	9.321713333	2.242473333
Snx33	chr9:56765006-56776178	9.31868	6.75818
Rsl1	chr13:67274117-67284434	9.308853333	2.3627
Prpsap2	chr11:61543151-61575590	9.30562	7.664153333
0610040J01Rik	chr5:64203733-64290858	9.30083	11.93727333
Dhx38	chr8:112071923-112089501	9.300413333	7.490773333
Endod1	chr9:14158433-14185686	9.29897	12.4508
Trex1	chr9:108960445-108962237	9.298393333	9.908513333
Slc16a13	chr11:70030293-70034496	9.298146667	4.956573333
Gm11517	chr11:96656645-96659470	9.29627	1.449181
Lsm10	chr4:125773896-125775828	9.293056667	15.1347
Krt83	chr15:101261920-101269235	9.29012	16.39643333
Prkca	chr11:107794700-108205202	9.289766667	4.930173333
lpo11	chr13:107584518-107726995	9.288443333	8.465693333
Fam175b	chr7:140050907-140076797	9.28628	10.95206333
Syt11	chr3:88548622-88576521	9.285866667	12.98697333
Areg	chr5:91568640-91577458	9.278393333	7.581613333
Alg13	chrX:140752508-140808991	9.277873333	9.66903
Xrcc1	chr7:25332168-25358457	9.274486667	14.15426667
Nsun2	chr13:69750894-69774657	9.272603333	10.71842667
Prkdc	chr16:15637958-15842332	9.269406667	9.12088
Srxn1	chr2:151931465-151937089	9.266666667	6.06871
Parg	chr14:33015156-33110735	9.266116667	12.42962333
Cnot6	chr11:49488211-49526212	9.26485	24.5644
Odz4	chr7:103359146-104057064	9.263	13.79973333
Gpank1	chr17:35258440-35261760	9.261526667	5.184576667
Pak6	chr2:118489312-118523756	9.257606667	16.70956667

4921531C22Rik	chr2:179711557-179713718	9.253796667	3.367971
Med12	chrX:98469429-98494273	9.247473333	14.14447
Mrto4	chr4:138903359-138908213	9.246683333	15.8352
Agrn	chr4:155539398-155571597	9.244086667	16.1682
1700108F19Rik	chr14:77077374-77086915	9.242436667	1.825313333
Dcun1d4	chr5:73872293-73952033	9.24102	19.53536667
Adh1	chr3:137940608-137953655	9.240433333	23.30785133
Klh11	chr11:100323925-100334096	9.23785	8.805056667
Slc25a27	chr17:43778848-43803964	9.23638	11.21683667
Jakmip1	chr5:37442095-37516537	9.230916667	19.5603
Ccdc163	chr4:116381534-116387709	9.229036667	11.99591333
Bcl2l1	chr2:152606403-152657418	9.22772	28.11026667
Fam174a	chr1:97210204-97231861	9.22744	15.62285667
Irgm2	chr11:58028478-58036285	9.226003333	5.424
4921524J17Rik	chr8:87932657-87956740	9.224516667	4.283769333
Slc35a1	chr4:34610505-34634687	9.223253333	10.30818
Fbxo18	chr2:11664199-11699154	9.222376667	12.57811
Tsga10	chr1:37811620-37921924	9.218236667	8.46037
Stambpl1	chr19:34266759-34314818	9.21796	9.862916667
Pdgfra	chr5:75548315-75594229	9.213103333	9.652766667
Nudt2	chr4:41412180-41427959	9.208126667	5.877956667
Tmem161a	chr8:72696309-72707562	9.206946667	17.0908
Nup160	chr2:90517371-90576485	9.201026667	6.24011
Osgep	chr14:51535048-51544568	9.200903333	10.64423333
Rngtt	chr4:33397285-33589585	9.20005	7.68883
Spink5	chr18:44122894-44182141	9.19987	36.51806667
Klc3	chr7:19979788-19985205	9.196916667	9.881953333
Tsen54	chr11:115676052-115684416	9.19349	5.108193333
4931406P16Rik	chr7:35021732-35070628	9.192333333	10.12271667
Cep170	chr1:178663783-178737255	9.191453333	10.10391333
Rrnad1	chr3:87726522-87734117	9.1912	8.142453333
Palmd	chr3:116621179-116671870	9.189	12.77501333
Irak2	chr6:113588460-113645020	9.186923333	8.918143333
Gm14391	chr2:175010665-175032425	9.183483333	4.147663333
Cntd1	chr11:101140516-101150015	9.179056667	5.640563333
Klh129	chr12:5084273-5382488	9.17757	2.516689333
1200011M11Rik	chr11:86891233-86900279	9.17752	6.021126667
Plekhb1	chr7:107792409-107810908	9.17341	14.78953333
Pi4k2b	chr5:53132812-53160579	9.16868	9.39146
St7l	chr3:104667423-104732981	9.16852	8.527353333
Agap3	chr5:23957994-24007865	9.165616667	13.0113
Git2	chr5:115177416-115223501	9.158866667	5.088036667
Eil	chr8:73063573-73116757	9.15702	8.328613333
Tapbpl	chr6:125174229-125181878	9.156063333	8.062906667
Ppp1r12c	chr7:4433122-4453282	9.154163333	8.239616667
Ranbp3	chr17:56812647-56851192	9.153786667	9.710776667
Trim11	chr11:58791617-58804960	9.14668	5.68795
A230001M10Rik	chr3:102066327-102092694	9.14309	0
R3hcc1	chr14:70097110-70107387	9.141813333	24.72908
Mtag2	chr7:52621532-52623318	9.139843333	2.046603333
Hist1h2ac	chr13:23773335-23775828	9.13893	1.520583
Alg12	chr15:88635672-88649748	9.13498	4.748246667

Slc1a2	chr2:102498839-102630941	9.132226667	6.638383333
Gm14391	chr2:175868369-175987706	9.132173333	4.29887
Fam174b	chr7:80885192-80921805	9.13154	21.20486667
Snhg10	chr12:106268826-106270489	9.129116667	4.31262
Zfp182	chrX:20603309-20639164	9.129063333	9.539623333
Polr3g	chr13:81812835-81850012	9.127826667	14.98640333
Parn	chr16:13538056-13668263	9.126383333	18.58439
Agr2	chr12:36719511-36730668	9.124976667	12.95182
4933413L06Rik	chr13:118495570-118508818	9.12242	3.906986667
Krtcap3	chr5:31554078-31555570	9.121436667	12.94784333
Trappc2l	chr8:125135525-125139491	9.117506667	23.35711667
Nhsl2	chrX:99044723-99287394	9.112606667	4.052143333
Celf2	chr2:6460743-7317825	9.112216667	13.04018
Prkg1	chr19:30638976-31839523	9.109826667	0.384260667
Nucb2	chr7:123647887-123684102	9.108663333	12.13440333
Zbtb2	chr10:5958432-5979467	9.108603333	12.64433333
Apbb3	chr18:36830812-36839020	9.10832	13.36595333
Klc4	chr17:46767579-46782093	9.107643333	11.10595667
2010111I01Rik	chr13:63116293-63400964	9.107313333	21.94406667
D2hgdh	chr1:95721816-95748751	9.09482	8.493643333
Lcor	chr19:41624128-41634271	9.094263333	9.2016
Atcay	chr10:80667257-80693524	9.091903333	11.45085667
Zmym3	chrX:98599722-98616024	9.08866	10.97105
Tm9sf1	chr14:56254802-56262643	9.08838	31.1761
Sf3a1	chr11:4060356-4082544	9.08532	14.0352
lkbkg	chrX:71638629-71699117	9.08256	10.41216
Gga3	chr11:115445568-115465230	9.082386667	6.677513333
Dnalc4	chr15:79591878-79604897	9.080566667	23.69043333
Clip4	chr17:72119030-72207691	9.079516667	18.84046667
Pcdh19	chrX:130117399-130223532	9.078556667	14.02856667
Tmtc4	chr14:123318196-123382483	9.076813333	21.86876667
Agxt2l2	chr11:51398258-51416771	9.076373333	10.69371333
Pigv	chr4:133217339-133228562	9.075086667	6.542556667
C1d	chr11:17157620-17169179	9.071256667	5.62903
Map3k1	chr13:112536642-112599191	9.0686	17.06516667
Ube2ql1	chr13:69841709-69878775	9.068396667	0
Ptplb	chr16:35022506-35109261	9.06812	18.59990667
Trmt6	chr2:132629950-132641790	9.065856667	12.43877333
Tmem167	chr13:90229271-90254526	9.065426667	5.942903333
ltgb7	chr15:102046425-102062366	9.058093333	5.55873
Tcea2	chr2:181415014-181422756	9.056256667	3.183636667
Zfp317	chr9:19426534-19454175	9.055583333	7.2446
Klf11	chr12:25336235-25347647	9.054243333	12.76512
Zdhhc16	chr19:42007961-42018593	9.053226667	16.05284667
Rnf121	chr7:109168385-109213646	9.046373333	4.66919
Rg9mtd2	chr3:137806501-137822784	9.042963333	12.32584333
Vamp1	chr6:125165598-125172324	9.042133333	6.16309
Tax1bp3	chr11:72990584-72995548	9.038083333	14.65032333
Tmem129	chr5:33995864-34000481	9.037056667	10.70293333
Hist1h2ba	chr13:24025641-24026025	9.02379	11.07248
Galc	chr12:99440509-99497547	9.01684	9.954303333
2310067B10Rik	chr11:115626746-115660347	9.01562	10.78248667

Cdkn2aip	chr8:48794697-48799285	9.00857	11.64569667
Adal	chr2:120967876-120982414	9.007676667	8.467053333
Heatr5b	chr17:79152245-79234721	9.003226667	13.02058
Mcat	chr15:83377226-83386141	9.00046	6.255173333
Rbms2	chr10:127566525-127617353	8.999336667	10.23023667
Hebp2	chr10:18259928-18265882	8.998156667	7.245573333
Rbm15	chr3:107129027-107136207	8.99155	7.836296667
lpp	chr4:116180153-116210840	8.991376667	7.763696667
Sc1t1	chr3:41430626-41546436	8.99029	4.812063333
Smpd4	chr16:17619446-17644923	8.988933333	9.01017
BC026590	chr4:56815200-56822477	8.987146667	8.091893333
Paip1	chr13:120217406-120249127	8.984663333	10.69812
Cds2	chr2:132088992-132137777	8.976943333	11.87646667
Atg2a	chr19:6241667-6262304	8.975433333	10.79022333
Haus1	chr18:77996305-78006519	8.969763333	15.41371
Dsty1	chr1:134314029-134363536	8.96735	12.03220667
4933426D04Rik	chr5:24408386-24412667	8.964956667	1.732911667
Rnf40	chr7:134732211-134747119	8.964243333	7.277733333
Pex13	chr11:23546478-23565935	8.962563333	9.80327
Zdhhc7	chr8:122604994-122625372	8.961683333	10.45549667
lqce	chr5:141139458-141178332	8.961563333	7.93835
2700094K13Rik	chr2:84509377-84510865	8.955503333	10.14591
C030046E11Rik	chr19:29596771-29680411	8.954333333	5.099706667
Ctif	chr18:75590870-75857350	8.9529	15.7515
Dync2li1	chr17:85025838-85054904	8.949146667	7.012594
Wdr44	chrX:23270242-23383127	8.949036667	8.058636667
Casp8ap2	chr4:32702447-32740240	8.94402	9.362873333
2310003L22Rik	chr2:139996381-140030988	8.943366667	8.591553333
Atg4b	chr1:95651609-95686106	8.942286667	8.012426667
6430548G04	chr2:27000417-27018223	8.94224	1.605964667
Zfp952	chr17:33130083-33142402	8.941893333	10.14861333
Wdr6	chr9:108474643-108481001	8.938756667	21.31243333
Synj2bp	chr12:82593180-82633894	8.936323333	8.562423333
Grpel1	chr5:36807833-36816726	8.93601	7.322648433
Tmem158	chr9:123168174-123169907	8.93563	19.39437
Khyn1	chr14:56503805-56515618	8.935446667	3.415033333
Atxn7l3	chr11:102150613-102157943	8.93439	3.78411
Snrnp25	chr11:32105414-32108995	8.932813333	19.97786667
Adipor2	chr6:119303167-119367501	8.931193333	14.32943333
2610524H06Rik	chr5:115271945-115273477	8.93046	29.04192333
Btbd6	chr12:114214692-114217151	8.92842	9.866693333
D430036J16Rik	chr9:81525536-81538763	8.92407	1.5835524
Fam196b	chr11:34214821-34322640	8.92146	1.802486667
Aldh3b2	chr19:3972327-3981665	8.9193	25.68566667
Ccdc40	chr11:119089885-119126526	8.915786667	4.7657
Xpc	chr6:91439301-91465882	8.910423333	9.675796667
BC048355	chr17:46633737-46636567	8.909983333	5.39816
Gramd1a	chr7:31915145-31936069	8.908546667	13.3183
Nosip	chr7:52317798-52333873	8.90793	8.505746667
Pacsin3	chr2:91096969-91104836	8.90354	14.29035667
Grhpr	chr4:44994282-45003568	8.901946667	15.77379667
Mospd2	chrX:161376140-161418267	8.901376667	9.669193333

Fuz	chr7:52151448-52155994	8.900823333	6.227956667
Dpysl3	chr18:43483880-43552985	8.89907	7.67366
1810034E14Rik	chr13:64350007-64369453	8.897365333	2.989606667
Rad17	chr13:101387118-101421014	8.896713333	4.745833333
Hyal3	chr9:107483626-107489690	8.89641	0.880323333
Irs2	chr8:10986963-11008430	8.895343333	3.464446667
Smoc2	chr17:14416512-14541797	8.894403333	3.45669
D030056L22Rik	chr19:18787725-18792918	8.89131	5.558023333
Pkd2	chr5:104888475-104934838	8.889016667	10.44769
Gcc1	chr6:28366602-28371724	8.88809	17.07943333
Trim56	chr5:137587155-137592077	8.88708	4.341456667
Tex10	chr4:48443827-48486294	8.88702	12.87206667
Agpat6	chr8:24283417-24318925	8.873823333	6.45765
Slc28a3	chr13:58654668-58712238	8.872666667	6.608676667
Mcrs1	chr15:99073247-99082392	8.86915	2.73577
Aprt	chr8:125098536-125100807	8.86903	21.50713333
Tmem102	chr11:69617096-69619126	8.865933333	11.74707
Plrg1	chr3:82859459-82876213	8.863406667	18.23417667
Sfpi1	chr2:90936953-90955913	8.86294	1.670636667
F8a	chrX:70473644-70476134	8.862693333	3.97171
Tmem109	chr19:10945151-10956233	8.861603333	16.09683333
Fbxo33	chr12:60301641-60320470	8.856793333	10.23316367
Ergic2	chr6:148127839-148160896	8.85274	11.47711
Fgd2	chr17:29497858-29516480	8.851526667	4.813773333
Slc16a3	chr11:120809797-120820314	8.851076667	3.108936667
4933417E11Rik	chr1:72005571-72051769	8.849946667	7.913054667
Zfp161	chr17:69733317-69739884	8.846306667	12.69522333
Ccnd3	chr17:47641999-47736637	8.843573333	19.59241333
Otud3	chr4:138451293-138469862	8.842743333	6.512253333
Donson	chr16:91679509-91688973	8.840636667	9.445173333
Ttyh3	chr5:141096531-141124985	8.839703333	23.85123333
Wdr3	chr3:99942102-99966326	8.836143333	11.56301333
Pdcd10	chr3:75320411-75360721	8.833183333	16.14133333
Trim21	chr7:109706435-109713983	8.827356667	4.119758333
Ebp	chrX:7762456-7770638	8.82682	21.17715333
Msl3	chrX:165092049-165111834	8.82561	4.787516667
Fntb	chr12:77938453-78022399	8.824753333	6.511
Vsig10	chr5:117769274-117805015	8.824286667	8.69369
Kdm5d	chrY:234230-280254	8.822393667	11.00958
Stx6	chr1:157005832-157050647	8.81745	9.0159
Lipa	chr19:34566805-34601964	8.815376667	14.50524667
Ccdc71	chr9:108362848-108368276	8.81418	19.62442
Lnx2	chr5:147828230-147888148	8.81381	5.442853333
Extl3	chr14:65670895-65716943	8.808043333	10.28391667
Kdm2b	chr5:123320684-123439101	8.806936667	11.67352667
1300001I01Rik	chr11:74462996-74484349	8.802533333	15.39723333
Ublcp1	chr11:44268072-44284050	8.79882	12.87472667
B230118H07Rik	chr2:101400937-101469143	8.797016667	9.22647
Gna14	chr19:16510156-16685308	8.794836667	108.0714667
Slc35b4	chr6:34105878-34127054	8.791863333	7.124356667
Tstd2	chr4:46127618-46151347	8.791173333	9.14963
Mta1	chr12:114336488-114375417	8.790186667	14.04936667

Alox12e	chr11:70129114-70136020	8.789876667	7.29123
Krt1	chr15:101675856-101681217	8.785686667	3.076083333
Naa40	chr19:7300157-7315712	8.782703333	9.698746667
Fbxo36	chr1:84836415-84897061	8.782123333	9.329156667
Tmprss11d	chr5:86731878-86802412	8.777566667	17.40565
Krt222	chr11:99094411-99105381	8.77706	6.357606667
Arhgap24	chr5:102910409-103326956	8.776213333	3.469843333
Nt5dc3	chr10:86241749-86301134	8.775276667	7.87841
Ntn4	chr10:93103793-93208717	8.774376667	10.77387333
Ctnnbip1	chr4:148892349-148940546	8.77198	15.26308333
Deaf1	chr7:148483074-148524682	8.771756667	6.486643667
Scyl3	chr1:165860194-165885257	8.77017	6.878476667
Rhou	chr8:126177828-126187780	8.768773333	12.55784333
Srgap2	chr1:133181827-133423938	8.766186667	6.2291
Klhl2	chr8:67218658-67373716	8.764443333	10.53687333
Lmo1	chr7:116282085-116313822	8.763593333	4.718666667
Nenf	chr1:193130675-193141997	8.76022	14.78683333
Mrps30	chr13:119168916-119176059	8.759106667	3.655005667
Map3k2	chr18:32322742-32396405	8.759033333	7.985103333
Pcdhgc3	chr18:37966063-38001526	8.75233	11.25223667
Ptprh	chr7:4500215-4555643	8.751183333	1.281019667
Mms19	chr19:42018196-42055626	8.750453333	8.8048
Rnf185	chr11:3315985-3352328	8.747273333	3.352267333
Eif4e2	chr1:89110488-89137063	8.743806667	20.1373
Pign	chr1:107414998-107560253	8.743256667	8.913673333
D1Bwg0212e	chr1:39592646-39603722	8.74006	11.09281
Cobl	chr11:12136678-12364963	8.739023333	11.11633667
Gm5801	chr4:155320361-155331710	8.738726667	16.70243333
2200002D01Rik	chr7:30032539-30033486	8.73658	5.67612
Stx18	chr5:38430473-38528057	8.730323333	3.426516667
Fbxl19	chr7:134890288-134912442	8.724016667	8.30426
Eef1e1	chr13:38737559-38750897	8.723973333	15.7042
Wdr45l	chr11:121188516-121215761	8.721256667	10.61068667
Mrps9	chr1:42908077-42962528	8.720103333	12.14682333
1700001G17Rik	chr1:33726668-33727557	8.719920333	4.857536667
Tmem209	chr6:30431232-30459706	8.715866667	9.13988
Cuedc2	chr19:46404301-46413150	8.71446	5.269843333
2510009E07Rik	chr16:21649117-21694738	8.711696667	8.523656667
Mdn1	chr4:32744093-32862192	8.710863333	7.18188
Svip	chr7:59252530-59261388	8.70957	2.966902
Chmp7	chr14:70116785-70132377	8.708813333	16.12124333
Gm3696	chr14:7915538-7937971	8.708383333	5.87941
Abhd3	chr18:10644408-10706694	8.707423333	5.134363333
Prpf19	chr19:10969720-10984049	8.706836667	7.987263333
Acvr2a	chr2:48669628-48758784	8.703963333	13.67721
Hdhd2	chr18:77182853-77210910	8.703286667	7.11845
Zfp865	chr7:4971977-4984825	8.70316	8.890103333
Socs5	chr17:87507018-87536925	8.702213333	3.671923333
Hddc3	chr7:87488022-87490983	8.702156667	3.847962
Zfp335	chr2:164717391-164737250	8.70144	12.1961
Tln1	chr4:43544384-43575455	8.699846667	7.425376667
Eml3	chr19:9004183-9016072	8.697253333	15.09157

Plekha3	chr2:76513371-76535392	8.69556	8.561156667
6030405A18Rik	chr3:54700990-54719809	8.692886667	16.3617
Tnfrsf18	chr4:155400450-155403000	8.69206	10.78143667
Cul5	chr9:53422686-53475612	8.691543333	13.8715
6330549D23Rik	chr3:96410584-96433742	8.68961	6.632236667
Sugp2	chr8:72758124-72787004	8.688743333	7.24802
Nkap	chrX:34666757-34690741	8.68744	11.3885
Zfp511	chr7:147222289-147226504	8.684193333	14.04853333
1700020O03Rik	chr12:87582827-87632318	8.682876667	9.73627
Gnb5	chr9:75159201-75193478	8.675443333	6.301316667
2610035D17Rik	chr11:112905219-113063152	8.67523	9.086836667
Pomgnt1	chr4:115823122-115832449	8.6737	8.850183333
Pus3	chr9:35367050-35374985	8.67231	11.46327
Optn	chr2:4941687-4984984	8.671916667	2.872846667
Pthr1	chr2:32631340-32633113	8.670903333	18.86745533
Sgms1	chr19:32197216-32462944	8.666683333	17.2618
Cfl2	chr12:55959805-55963864	8.664003333	8.345856667
Dand5	chr8:87339303-87356164	8.659296667	4.653573333
9130221H12Rik	chr7:26013741-26015283	8.656133333	10.92586333
Ccdc56	chr11:101139283-101140262	8.654663333	26.04311
Med23	chr10:24589791-24633335	8.649246667	6.372763333
Mob1a	chr6:83276032-83290943	8.646876667	10.68984
Gtpbp10	chr5:5537456-5559501	8.6468	4.446717667
2900006K08Rik	chr12:85750017-85774730	8.64433	2.014676
Vkorc1l1	chr5:130417982-130458760	8.64399	12.73010667
Hist2h2ac	chr3:96024377-96024767	8.642923333	3.59978
Tmem54	chr4:128782773-128788870	8.64156	31.00673333
Cog7	chr7:129066352-129125207	8.634746667	3.681226667
Hs1bp3	chr12:8320238-8350630	8.634176667	13.92526333
1200016B10Rik	chr1:153214828-153275565	8.634093333	9.350563333
lppk	chr13:49516679-49558359	8.632656667	5.938550667
BC025920	chr10:81069052-81072581	8.632595333	6.163426333
Elp3	chr14:66149282-66211949	8.631056667	11.42601333
Mtmr1	chrX:68617934-68672371	8.629083333	15.78676667
Gys1	chr7:52690208-52711987	8.62898	6.6953
Il17ra	chr6:120413214-120433745	8.624673333	8.47673
Magi3	chr3:103817187-104024329	8.621956667	6.457723333
Fam59a	chr18:21285842-21458640	8.621286667	5.025963333
Fbxo34	chr14:48092235-48151637	8.619676667	2.645363333
Cdk5rap3	chr11:96769099-96777795	8.619253333	9.720773333
2610034B18Rik	chr7:87070244-87080150	8.616233333	10.48017
Hist1h3d	chr13:23667670-23668081	8.611433333	5.90559
Ranbp10	chr8:108292207-108351250	8.604773333	15.72097667
Dnajc19	chr3:33956679-33980248	8.603113333	5.932584
1810032O08Rik	chr11:116532973-116537112	8.59792	17.86656
Wipi1	chr11:109434834-109472703	8.59775	7.888803333
Traf4	chr11:77971924-77979052	8.596783333	16.7087
AU019823	chr9:50413344-50425569	8.59575	8.99597
Kifc2	chr15:76491070-76498626	8.59102	20.89076
Fbrsl1	chr5:110790770-110877522	8.588746667	8.879596667
Pdpm	chr4:142857324-142889410	8.586139267	1.054546667
Prkag3	chr1:74785495-74795529	8.58527	0.0162337

Zfp295	chr16:98168598-98183786	8.584306667	10.98772333
Llg1	chr11:60513191-60527690	8.58127	12.34177
Tmub2	chr11:102146274-102150738	8.58005	8.53457
Haus2	chr2:120435171-120446554	8.579823333	19.86001333
Spats2l	chr1:57831704-58005241	8.57921	15.91816667
Snord17	chr2:144091717-144091938	8.578836667	17.74427
Repin1	chr6:48543881-48549081	8.576853333	16.63662333
4931406C07Rik	chr9:15087780-15110892	8.563583333	11.82354667
Pex11c	chr8:3458816-3467648	8.563023333	3.627782
1700040I03Rik	chr6:85396778-85401964	8.56202	9.906113333
Aldh18a1	chr19:40624746-40662953	8.561843333	5.375766667
Mettl17	chr14:52504516-52511543	8.558726667	4.564954
Nxt2	chrX:138662479-138674235	8.55845	13.20446667
Mrpl10	chr11:96902899-96910527	8.55781	6.459896667
Ttl4	chr1:74708327-74744547	8.553716667	7.838413333
Slc25a19	chr11:115475494-115489609	8.552733333	5.328203333
Mcm9	chr10:53257129-53350245	8.548556667	3.811626667
Dennd1a	chr2:37654509-38142904	8.54386	5.54988
Ilvbl	chr10:78037244-78047247	8.538786667	14.10023333
Sarnp	chr10:128258826-128314694	8.53793	5.05919
Zfp81	chr17:33470672-33495823	8.53606	15.22129667
lpo8	chr6:148719205-148779989	8.53373	10.64741
Zc3h10	chr10:127980620-127984800	8.533183333	8.634756667
Sdad1	chr5:92713035-92739050	8.532303333	4.91786
Ube2w	chr1:16559486-16609367	8.530106667	11.55989333
4930444M15Rik	chr14:76914364-76920662	8.527456667	1.601549467
Caskin2	chr11:115660665-115674906	8.52589	3.321213333
Tada1	chr1:168309297-168323751	8.52256	13.30248667
Rfx5	chr3:94758936-94765483	8.518486667	12.74219333
2310022A10Rik	chr7:28338313-28367117	8.516383333	2.317401
Zmym6	chr4:126754626-126801538	8.514046667	11.60502
Peg13	chr15:72636029-72640754	8.51268	8.53725
Dgcr2	chr16:17840450-17891821	8.51241	14.37747667
Ccdc109a	chr10:58909731-59079440	8.512276667	6.96062
Amigo1	chr3:107989252-107994695	8.51161	12.42343
Znfx1	chr2:166861296-166888515	8.51075	6.63521
Gpr107	chr2:31007835-31072087	8.50647	10.67725667
Txnrd3	chr6:89593981-89625523	8.50635	5.654991233
Serpinf1	chr11:75223530-75236125	8.505923333	4.28169
2700078E11Rik	chr19:60600598-60656926	8.502446667	11.10227
Tgfb1	chr4:47366176-47427796	8.499063333	19.83983333
Rbpj	chr5:53947017-54048684	8.497276667	9.615733333
Wfdc5	chr2:164002060-164008478	8.49478	7.506399333
Mrpl22	chr11:57985155-57993082	8.49038	4.843196667
Acsf3	chr8:125299404-125341781	8.482626667	4.006491833
Dync2h1	chr9:6928502-7177046	8.481933333	9.049643333
Ssh3	chr19:4261667-4269172	8.48047	13.72737333
Slc25a38	chr9:120019516-120033437	8.479566667	5.858133333
Ndufaf1	chr2:119481186-119488534	8.47906	7.175046667
Ntpcr	chr8:128258102-128272135	8.477596667	2.11982
Zfp703	chr8:28087807-28091934	8.476503333	15.52253333
Prmt10	chr8:80073295-80105237	8.473996667	9.563533333

2810432L12Rik	chr4:49597377-49610742	8.467083333	8.86189
Brpf3	chr17:28938070-28975734	8.46466	8.395116667
Smg5	chr3:88140181-88166259	8.460196667	12.86305667
Gm19522	chr16:42884482-42912183	8.455896667	1.786026667
Tjp2	chr19:24168991-24299516	8.455206667	12.97236
Pcsk7	chr9:45714651-45737805	8.4536	5.082226667
Gm2447	chr3:52543645-52580576	8.453573333	0.097119133
Mpp2	chr11:101918330-101949829	8.452703333	7.039376667
Gm5567	chr6:40060251-40198352	8.451676667	11.939945
0610012G03Rik	chr16:31947136-31948607	8.451536667	5.591983333
Obfc1	chr19:47575537-47611510	8.450111	6.206186667
Bzw2	chr12:36818421-36883412	8.444966667	11.66143
Npat	chr9:53345151-53383732	8.443353333	8.45439
Ccdc89	chr7:97574821-97577174	8.442653333	1.54952
Polr2c	chr8:97381349-97388140	8.440413333	6.63883
Snx19	chr9:30234913-30274311	8.439286667	8.029716667
Mccc1	chr3:35858230-35899600	8.427043333	7.264393333
Ncoa3	chr2:165818136-165898742	8.422586667	9.187823333
Zkscan3	chr13:21478872-21494624	8.417146667	13.48506667
Dhrs7b	chr11:60644132-60671925	8.4138	7.18576
Xaf1	chr11:72115130-72127235	8.411983333	5.419176667
AW554918	chr18:25327520-25625822	8.410656667	10.2857
Tusc2	chr9:107465585-107468439	8.409773333	5.399413333
Poc1b	chr10:98569804-98660622	8.405683333	8.158393333
Gm962	chr19:5568073-5571261	8.40548	6.181646667
Ly96	chr1:16678536-16699686	8.403561333	36.26603333
Sema6c	chr3:94968295-94977238	8.401643333	8.9745
Mterfd2	chr1:95195787-95202447	8.39691	20.70416667
Cyth1	chr11:118025479-118109906	8.396006667	16.84233333
Hexb	chr13:97946285-97968312	8.394406667	4.334146667
Arhgef17	chr7:108018259-108080675	8.387316667	7.500163333
Tars2	chr3:95543896-95558900	8.385446667	6.236753333
C030006K11Rik	chr15:76551894-76554275	8.381156667	14.97489667
Dnajb14	chr3:137530638-137571895	8.374946667	4.324363333
Il17rb	chr14:30809353-30822082	8.372953333	3.879723333
Impad1	chr4:4691500-4720453	8.369183333	14.56076667
Ppp2r5b	chr19:6227766-6235840	8.368753333	5.617213333
Hinfp	chr9:44103755-44113754	8.36782	7.6568
Apobec3	chr15:79722837-79738859	8.367323333	4.280406667
Xpot	chr10:121024435-121063372	8.364523333	9.746766667
Surf6	chr2:26746291-26758333	8.361803333	5.48222
Zfp259	chr9:46081146-46090725	8.355156667	8.47038
	4-Sep chr16:18621903-18630031	8.35343	22.84981
Fam76a	chr4:132455127-132478466	8.34573	7.159756667
Susd4	chr1:184695036-184825785	8.341933333	10.19454667
AW551984	chr9:39394980-39411709	8.34133	2.015563333
Zfp692	chr11:58120570-58128115	8.341056667	20.7291
Miip	chr4:147234886-147242828	8.34075	10.59487333
Tfip11	chr5:112755388-112767093	8.339426667	5.490316667
Rragd	chr4:33069972-33109155	8.33869	2.789473333
Sh2d4a	chr8:70800426-70871603	8.336803333	4.330993067
AW209491	chr13:14722511-14730469	8.33613	6.235102

Psmf1	chr2:151541797-151567029	8.33483	9.67424
Cep164	chr9:45575028-45636721	8.333876667	15.40448667
2610002M06Rik	chrX:104978090-105011673	8.333416667	8.431643333
Kcnj1	chr9:32180002-32206779	8.333413333	6.5826
Slc39a1	chr3:90052113-90057534	8.328556667	17.77576667
Susd2	chr10:75099363-75106753	8.327426667	3.363777333
Cept1	chr3:106305177-106350679	8.327233333	4.428036667
Zfp839	chr12:112088488-112108208	8.325943333	27.02507
Igfbp2	chr1:72871053-72899045	8.32199	27.097
Amdhd2	chr17:24292799-24300700	8.317496667	8.393333333
Slc16a5	chr11:115323786-115335712	8.316016667	4.3801
Card10	chr15:78605565-78633472	8.312456667	2.499553333
Orc2	chr1:58519614-58561763	8.31138	8.697023333
Rnf139	chr15:58720783-58733945	8.31114	11.82940333
Rab12	chr17:66843851-66869010	8.309136667	11.39761667
Dpy19l4	chr4:11192225-11249278	8.30814	10.151416
4933439C10Rik	chr11:59319186-59324569	8.306816667	6.786553333
Pprc1	chr19:46131028-46147399	8.303876667	8.25005
Wdr77	chr3:105762415-105772678	8.301783333	6.666636667
2010204K13Rik	chrX:6988942-7000114	8.299001667	17.83523667
Ap1p1	chr7:31219998-31230601	8.29722	29.31973333
Mob3c	chr4:115500696-115508788	8.294196667	12.5749
Satb1	chr17:51875511-51972615	8.292903333	2.078802333
Zfp11	chr19:6080762-6084891	8.290383333	9.559423333
Dcun1d2	chr8:13255962-13288126	8.289953333	9.196826667
Ankra2	chr13:99033196-99043868	8.289686667	5.84667
Nudt16l1	chr16:4939110-4941025	8.2896	11.24824333
Nsun5	chr5:135845822-135852667	8.288636667	2.411660333
Gtf2h4	chr17:35804683-35810627	8.288556667	5.876193333
Tbc1d23	chr16:57168976-57231579	8.28836	5.916553333
Poldip2	chr11:78325797-78336238	8.285746667	15.43323333
Ccbl1	chr2:30040650-30061219	8.282656667	38.65598667
Gm2897	chr14:3049285-3077025	8.279926667	4.666623333
Ugdh	chr5:65804460-65827081	8.276033333	5.47713
Dear1	chr3:84768977-84769502	8.274235333	36.3746
Pigo	chr4:43030509-43038628	8.271766667	10.17022333
Yif1b	chr7:30023341-30032551	8.2662	6.60877
Loh12cr1	chr6:134589529-134661202	8.265893333	7.980326667
Glt8d1	chr14:31814578-31825627	8.26496	8.528073333
Dtx3l	chr16:35926600-35939113	8.26422	9.357276667
Csnk2a2	chr8:97969995-98012720	8.261543333	9.056186667
BC017643	chr11:121083902-121090623	8.260886667	5.69084
Icmt	chr4:151671322-151681235	8.259716667	12.20603333
Lman2l	chr1:36480030-36502084	8.258593333	13.88341667
LOC100503496	chr11:109301391-109314673	8.25524	8.851333333
Pdcd2l	chr7:34969515-34981666	8.253596667	12.78006
D730005E14Rik	chr15:79719961-79723568	8.2535	0.174695333
Tti2	chr8:32260787-32275175	8.252713333	8.100542667
Spice1	chr16:44347513-44388605	8.252106667	6.249396667
Mfn2	chr4:147247703-147278928	8.251836667	16.6798
Samd14	chr11:94871192-94887401	8.251143333	2.255543333
Zfp846	chr9:20385771-20399637	8.250653333	3.6905

Drg2	chr11:60268118-60282207	8.24924	8.976043333
Rcan3	chr4:134968223-134989720	8.24811	12.05523333
AA467197	chr2:122463622-122466812	8.246423333	0
Rab39b	chrX:72817396-72823543	8.243383333	16.36223333
Edem2	chr2:155527408-155555211	8.233533333	2.340796667
Pamr1	chr2:102390177-102483197	8.231353333	2.602035
Tns3	chr11:8331654-8564538	8.230933333	9.0391
Tmem41a	chr16:21934399-21947625	8.230367	11.29693
Cplx1	chr5:108947572-108979046	8.22968	0
Igf2bp2	chr16:22059081-22163372	8.228106667	3.392387333
Anks1	chr17:28046284-28199581	8.222523333	9.68009
Lrrc8b	chr5:105844793-105915208	8.218643333	15.4974
A730011L01Rik	chr11:119352660-119372779	8.216173333	6.045013333
Adrb1	chr19:56796861-56799352	8.212446667	0.369343333
Pxk	chr14:8930726-8997625	8.211883333	5.317176667
Crif3	chr11:79860000-79894457	8.207216667	6.417703333
Fut11	chr14:21514189-21519419	8.206886667	5.511411
Letmd1	chr15:100299464-100309683	8.201443333	11.836
Il1a	chr2:129125345-129135708	8.196896667	0.124455
Gdap2	chr3:99966440-100010904	8.19609	8.57234
Hps3	chr3:19895944-19935310	8.190593333	3.127251
Hist2h2ab	chr3:96023838-96024231	8.19008	0.130399667
Fam83c	chr2:155654918-155660590	8.18597	12.90114667
Foxa1	chr12:58641618-58647108	8.18388	6.75214
1600012F09Rik	chr13:18078473-18085185	8.183356667	6.532786667
Tmem173	chr18:35893331-35900208	8.183316667	1.786076667
LOC626693	chr16:43410630-43420309	8.180836667	8.057653333
Sart3	chr5:114192454-114221658	8.17697	13.51452667
C230096C10Rik	chr4:138908507-138934645	8.166573333	13.82468333
Rprd1a	chr18:24643462-24688705	8.166503333	12.02923333
Sgk1	chr10:21601989-21719708	8.164743333	21.91166667
Ctsf	chr19:4855128-4860912	8.1639	2.948843
Zbtb25	chr12:77449886-77470547	8.163576667	3.914786667
Magi1	chr6:93625448-94233898	8.160013333	17.2812
Rras	chr7:52273376-52277014	8.159256667	8.41871
Casp3	chr8:47702802-47724062	8.159253333	12.45184667
1110059G10Rik	chr9:122854206-122860118	8.15793	2.103169
Denr	chr5:124357283-124378841	8.147026667	8.05433
Hmgxb3	chr18:61290930-61336704	8.143123333	7.34598
Ptcd3	chr6:71830631-71858756	8.14244	16.98326667
Nab1	chr1:52512692-52557292	8.139496667	12.28986333
Hars2	chr18:36942933-36952214	8.135276667	7.96661
Ttc38	chr15:85662733-85689252	8.13339	4.329704
Trex2	chrX:70679043-70680682	8.12824	8.126815667
Lrrc26	chr2:25145430-25146713	8.12764	12.44565467
Rbfox2	chr15:76909419-77137483	8.12592	16.6391
1500031L02Rik	chr16:32099887-32108140	8.12493	13.59000667
Dock5	chr14:68369984-68551629	8.120036667	11.77776333
4930480K15Rik	chr17:91260508-91266442	8.114813333	5.34812
Foxe1	chr4:46357065-46358181	8.111556667	9.71956
Ankrd50	chr3:38348182-38383738	8.108346667	14.1332
Elmo2	chr2:165113530-165151979	8.104983333	6.2038

Vars	chr17:35137851-35153274	8.102023333	3.76474
Stk19	chr17:34960937-34973848	8.09957	14.24329667
4930542H20Rik	chr11:79483874-79488588	8.09747	0
Tssk3	chr4:129166251-129168014	8.09702	0.313178667
Cpsf3l	chr4:155243675-155263212	8.09408	7.45967
Polr3e	chr7:128061257-128090946	8.09305	8.288733333
Htra2	chr6:83001261-83004565	8.09241	7.23351
lkzf2	chr1:69577783-69732534	8.090636667	8.54509
Tfrc	chr16:32608981-32632880	8.088583333	14.71477667
1600002K03Rik	chr10:79635688-79637864	8.085376667	2.046529667
Nip7	chr8:109580776-109584828	8.085103333	1.823391
Pcnx	chr12:82961016-83101911	8.082846667	8.46491
Haus7	chrX:70682653-70704368	8.082006667	13.58453
2610507I01Rik	chr11:59011294-59015933	8.07978	8.47414
Gpr137	chr19:7012559-7016940	8.07806	12.08829667
Ophn1	chrX:95752853-96086324	8.06129	11.06531333
Fam115c	chr6:42573041-42595040	8.059946667	14.75293667
Pstpip1	chr9:55937782-55976697	8.05879	15.03734333
Pdik1l	chr4:133830920-133843761	8.05667	10.55569667
Mboat4	chr8:35178083-35188239	8.05431	2.306245
lft140	chr17:25153030-25236442	8.053676667	7.58734
Pcyt1a	chr16:32431006-32475151	8.052173333	8.72713
Pld5	chr1:177892436-178205443	8.052133333	39.13413333
Klh128	chr12:66043426-66066523	8.048163333	5.530006667
Asxl1	chr2:153171874-153229743	8.04649	11.87275333
Pdzd2	chr15:12286808-12522311	8.04446	13.71350667
Rai1	chr11:59918514-60012697	8.043806667	9.645186667
Tsc1	chr2:28496762-28546687	8.041563333	6.307276667
Rpain	chr11:70783701-70791435	8.035006667	8.067087333
Tsfm	chr10:126459387-126467870	8.033876667	6.657773333
Jazf1	chr6:52718061-53018618	8.0309	19.0642
Gm5523	chr1:13775765-13777010	8.023013333	6.740803333
Nipa1	chr7:63233853-63274943	8.019686667	3.20945
Lancl1	chr1:67047090-67085446	8.019513333	11.67009333
A430005L14Rik	chr4:153331345-153336033	8.01806	2.311
Usp1	chr4:98590500-98602224	8.009813333	12.62855
Eftud1	chr7:89797123-89926362	8.00717	8.235016667
Tmx3	chr18:90679545-90712659	8.00199	9.469416667
Ccdc22	chrX:7170934-7182546	7.99847	7.687333333
Mks1	chr11:87666726-87677181	7.99556	0.921063
Gzf1	chr2:148506855-148518685	7.994663333	10.14776333
Fzr1	chr10:80829623-80841115	7.990073333	9.20163
Parp14	chr16:35832963-35871468	7.988243333	2.045321467
Dhrs4	chr14:56097594-56109177	7.986033333	8.497583333
Tmem93	chr11:72989004-72990544	7.98478	9.617903333
Ept1	chr5:30559157-30598976	7.98378	13.0719
Gm10406	chr14:7838628-7859963	7.976513333	3.80941
Nme5	chr18:34722294-34738760	7.97571	10.70473333
Tas2r120	chr6:132606974-132607862	7.972036667	0
Spsb3	chr17:25023618-25029092	7.971076667	7.444506667
Alg1	chr16:5233713-5245001	7.96965	6.352273335
Thap11	chr8:108379002-108380850	7.965613333	10.48607333

Alas1	chr9:106135785-106150285	7.964663333	15.89159667
Lactb	chr9:66803199-66823291	7.961323333	5.948642667
Khk	chr5:31224267-31233619	7.95914	15.90263333
Pias3	chr3:96500297-96509993	7.958433333	10.81894333
Cenpj	chr14:57145597-57190683	7.958293333	5.631126667
Sh2b1	chr7:133610507-133618644	7.956836667	8.310613333
Dusp26	chr8:32200133-32207519	7.95591	1.179083333
Lss	chr10:75994371-76016679	7.954313333	17.03059333
Ppp2r5a	chr1:193175859-193220920	7.95182	10.80960333
FancI	chr11:26287083-26371876	7.951463333	3.86656
Fam129c	chr8:74121544-74132048	7.94619	5.530456667
PlekHg2	chr7:29144622-29157681	7.94589	9.04938
0610007P08Rik	chr13:63916627-64001609	7.94255	8.062616667
Usp11	chrX:20281034-20297665	7.94126	13.00332667
Hyls1	chr9:35368405-35377654	7.940106667	5.313636667
2310035K24Rik	chr2:131036175-131039250	7.938563333	3.900203667
Nkapl	chr13:21558915-21560370	7.937616667	0.180471
Mknk1	chr4:115511850-115551853	7.936946667	8.5616
Ttf1	chr2:28915782-28943170	7.93058	3.765484667
Cyp2s1	chr7:26587494-26601549	7.928383333	18.22540333
2900005J15Rik	chr5:24606792-24608825	7.926274667	8.248513333
Egfr	chr11:16652205-16813910	7.92348	10.63190667
Epn1	chr7:5031836-5049780	7.922363333	17.86999667
Trim68	chr7:109826093-109835840	7.92183	4.363316667
Rpl26	chr11:68715067-68718036	7.920163359	4.481179081
Ap1s3	chr1:79603450-79668547	7.917633333	8.682546667
Ndst2	chr14:21542951-21553784	7.915073333	9.081556667
Ephb6	chr6:41555480-41570506	7.908403333	30.7116
Trim13	chr14:62217062-62224782	7.90795	30.3796
Zbtb48	chr4:151393884-151401780	7.906866667	23.37015
Ston2	chr12:92871448-93024876	7.90333	11.15536667
Pigm	chr1:174306661-174314230	7.901136667	6.872616667
Gm3428	chr9:35656129-35657465	7.900783333	1.372583333
Tmem132e	chr11:82202401-82259829	7.900746667	14.00175333
Gas2l1	chr11:4954133-4965330	7.89963	14.00330333
Pcdhga1	chr18:37821598-38001524	7.89725	4.800773333
Strada	chr11:106024287-106054917	7.895406667	9.036516667
Nrp2	chr1:62749890-62865266	7.894916667	13.14965
Cxx1b	chrX:50972353-50973585	7.891383333	11.18647333
BC016579	chr16:45626960-45654231	7.890723333	0.920353667
Xpo7	chr14:71054052-71166435	7.886106667	12.96193333
Fam160b1	chr19:57435498-57464084	7.885473333	5.194253333
Rprml	chr11:103510822-103511894	7.882096667	49.2172
Ripk3	chr14:56403831-56407694	7.881686667	11.68322
Asb13	chr13:3633321-3651025	7.87301	8.952396667
Pla2r1	chr2:60255599-60391365	7.87269	8.117253333
Cnm2	chr19:46836098-46953070	7.871823333	6.662446667
Scd1	chr19:44468939-44482199	7.87178	6.284913333
Fars2	chr13:36209279-36629462	7.87105	6.798456667
Tmem44	chr16:30511940-30550664	7.867896667	0.782435767
Chm	chrX:110154200-110299124	7.866503333	8.278943333
Ptk2b	chr14:66772093-66899889	7.864423333	9.04961

Pogk	chr1:168323741-168339959	7.8632	12.22277333
Bspry	chr4:62141100-62158332	7.863023333	10.23922
Cutc	chr19:43827512-43843128	7.860756667	4.466296667
Lnp	chr2:74352893-74417005	7.856473333	5.039913333
Ssbp3	chr4:106584074-106722299	7.856076667	14.86553333
Snrnp40	chr4:130037378-130067278	7.855666667	8.564906667
Trim17	chr11:58777282-58785231	7.85386	0.823705
Pias4	chr10:80616715-80630465	7.853293333	8.304773333
Trim62	chr4:128561383-128588570	7.853166667	19.96166667
lrf2bp1	chr7:19589413-19592112	7.852436667	3.63677
Prrg2	chr7:52308976-52317022	7.851736667	12.95457333
Cabp1	chr5:115618699-115636130	7.842783333	3.974011
2410076I21Rik	chr9:58500662-58589366	7.833713333	13.4529
Trim23	chr13:104969177-104992128	7.83106	12.74156667
Fastk	chr5:23946857-23951053	7.828946667	15.53238333
Rad1	chr15:10415788-10423446	7.82792	3.070681667
A430035B10Rik	chr6:8457058-8459161	7.8279	0.818932
1810063B07Rik	chr14:20894857-20902394	7.827863333	1.235815333
Mon1a	chr9:107790459-107805470	7.825826667	9.447594
Cog2	chr8:127044666-127075907	7.820933333	6.301856667
Pik3cb	chr9:98938820-99040630	7.818333333	11.93596667
Ccdc85b	chr19:5453162-5457563	7.817616667	5.711936667
3230401D17Rik	chr2:163231557-163245206	7.817568667	6.256666667
Ctdspl	chr9:118835653-118953237	7.812216667	4.798333333
Nfs1	chr2:155949372-155969922	7.809916667	19.69033
Bloc1s3	chr7:20091152-20093680	7.809763333	4.888386667
lpo13	chr4:117567097-117587604	7.805673333	15.1667
Lypla1	chr1:4797973-4836816	7.804856667	9.758926667
Dusp28	chr1:94803565-94805197	7.80288	11.32214
Nkiras2	chr11:100484268-100488916	7.801926667	12.33704333
Med19	chr2:84518558-84528372	7.801886667	10.37418667
Syng1	chr15:79921763-79949931	7.799466667	4.886166667
Rab4b	chr7:27953451-27963902	7.79901	15.15041667
Abca5	chr11:110130682-110199030	7.797856667	2.771183333
Exosc4	chr15:76157826-76161100	7.797653333	11.56763333
Prkcd	chr14:31408539-31439394	7.79562	2.39848
Klhl5	chr5:65522469-65559381	7.792693333	4.310873333
Sorbs3	chr14:70580274-70607444	7.790563333	5.034261333
Tmem184c	chr8:80119878-80134552	7.78978	13.41827
Mphosph6	chr8:120315544-120325829	7.784703333	19.9103
Nt5c2	chr19:46961320-47089679	7.78456	10.49364667
Klhl17	chr4:155603152-155608966	7.78222	7.392306667
Thap6	chr5:92391907-92401163	7.775166667	2.851161333
4930544O15Rik	chr4:115452438-115453639	7.77399	0
Tmem62	chr2:120802797-120833578	7.773973333	6.29743
Ccbl2	chr3:142364043-142407874	7.77396	5.464255
Lrpprc	chr17:85104586-85190126	7.77292	12.79764
Aqp3	chr4:41039756-41045216	7.77031	33.77103333
Ap2a1	chr7:52155742-52184860	7.769106667	11.42735
5730437N04Rik	chr17:5410863-5440260	7.767633333	15.56316667
2810021J22Rik	chr11:58680741-58697840	7.76723	3.733287
Gm14479	chrX:10901784-10902102	7.763023333	0.197470667

Hsd17b11	chr5:104418783-104450815	7.76292	6.62754
Ggnbp1	chr17:27154979-27173323	7.760743333	7.473253
Ruvbl1	chr6:88415416-88447560	7.753316667	14.34964667
BB283400	chr6:30126622-30128040	7.75307	0.367149
Rpap1	chr2:119589694-119613273	7.750733333	7.03369
Psen2	chr1:182157134-182186431	7.748983333	3.727326
Dak	chr19:10666686-10678748	7.74885	2.321051267
Gm2382	chr9:88583442-88614636	7.738863333	16.08848333
Rps6kc1	chr1:192596757-192735649	7.73777	7.05544
Rpf2	chr10:39943051-39966845	7.73713	18.74613333
Ccdc130	chr8:86781693-86794259	7.73574	4.482598667
Ccdc50	chr16:27389062-27452304	7.735423333	13.08599333
Wbscr22	chr5:135528826-135540536	7.735366667	12.90838667
Plod3	chr5:137462888-137472516	7.730736667	5.53673
Heatr6	chr11:83567138-83597256	7.728456667	9.20158
Gpn2	chr4:133140287-133147650	7.726926667	3.709120333
4930429B21Rik	chr3:32264410-32266360	7.725426667	1.481345333
Aen	chr7:86040812-86053719	7.724723333	10.60383333
Ccdc117	chr11:5428890-5442220	7.723576667	14.60143333
Intu	chr3:40439688-40508662	7.716626667	6.467663333
Dok4	chr8:97387727-97400212	7.71321	13.04966
Ndufab1	chr7:129231557-129245362	7.710613333	5.70701
Tmppe	chr9:114310212-114320319	7.709913333	5.859213333
Cant1	chr11:118267602-118280366	7.707233333	4.46788
Med9	chr11:59761715-59776808	7.70706	6.902723333
Mtrf1l	chr10:4522597-4534654	7.705876667	6.641033333
Fpgt	chr3:154747882-154756342	7.70573	6.922446667
Mmp15	chr8:97876236-97898193	7.70259	7.439676667
Dsg1a	chr18:20469373-20501854	7.70232	47.47243333
Serpine2	chr1:79790895-79855240	7.699196667	19.68703333
Zfand1	chr3:10339955-10351301	7.697326667	20.4033
Mrpl1	chr5:96639133-96695728	7.697276667	7.837953333
Dnajc11	chr4:151307828-151356068	7.697063333	8.65976
Exoc8	chr8:127414198-127421605	7.69631	6.943656667
Klhdc1	chr12:70342818-70384948	7.695756667	6.656833333
Cd52	chr4:133649452-133650988	7.69218	1.055306667
Olfr1373	chr11:51958094-51959030	7.686966667	3.347940333
Klhdc4	chr8:124320207-124353469	7.686726667	5.224726667
Dnajb5	chr4:42965965-42971604	7.68324	17.59011333
Oasl1	chr5:115373248-115387920	7.68215	2.463269333
4921511I17Rik	chr12:12358327-12399281	7.681596667	1.979691667
Klhdc5	chr6:147039596-147061300	7.680303333	9.6735
Ppp2r2d	chr7:146038068-146074739	7.678403333	11.50923333
Ces1f	chr8:95780134-95803635	7.67739	1.096
A930012L18Rik	chr18:44821318-44835925	7.671223333	4.361736667
Fam116b	chr15:89012642-89026905	7.669103333	6.68443
C1qc	chr4:136445716-136448829	7.65922	0.039865333
Osbpl11	chr16:33185156-33243398	7.658683333	5.027913333
Mast4	chr13:103522568-104124572	7.65548	33.77603333
Cep72	chr13:74173942-74199733	7.650683333	4.07398
Erf	chr7:26027578-26035777	7.64943	10.28110667
Zscan18	chr7:13353440-13361007	7.646706667	5.62376

Slc9a7	chrX:19682880-19868890	7.639823333	9.880116667
Fam115a	chr6:42622545-42643058	7.63456	14.8447
Socs6	chr18:89037271-89063599	7.63293	8.0819
Mtf1	chr4:124479792-124527044	7.631986667	23.00373333
Cxcl16	chr11:70267735-70273486	7.627856667	4.659222667
Cep78	chr19:16030262-16059479	7.625236667	7.840236667
Bckdk	chr7:135047586-135053178	7.622756667	7.039823333
Zbp1	chr2:173032113-173044423	7.622676667	4.404516333
Abca7	chr10:79460359-79478317	7.622103333	9.863756667
Scrib	chr15:75877615-75900160	7.62144	8.22874
Apoe	chr7:20281592-20284515	7.615236667	9.333923333
E2f5	chr3:14578670-14606309	7.611396667	12.26309
Cwh43	chr5:73797316-73844664	7.60995	4.04074
Trim7	chr11:48639639-48663697	7.609706667	6.159006667
Nrbf2	chr10:66729436-66748029	7.607103333	9.51706
Eno3	chr11:70470714-70476015	7.606663333	5.091153333
Zfp646	chr7:135021214-135029510	7.60317	5.882466667
Grin2a	chr16:9577802-9992626	7.59941	0.207767667
Gm16023	chr4:154982405-154998864	7.593746667	1.266458867
Nol6	chr4:41061459-41071372	7.590763333	12.21872
Adam15	chr3:89143561-89153932	7.590356667	14.5078
Gm14378	chr8:4248213-4251423	7.588003333	1.808126667
Nfyc	chr4:120430039-120504180	7.586166667	10.85748
Pdlim2	chr14:70564024-70577479	7.583683333	4.707376667
A230046K03Rik	chr10:83006685-83059218	7.582376667	11.26282
Zbtb34	chr2:33261627-33286844	7.581046667	6.26479
Nfasc	chr1:134461266-134638374	7.581026667	15.5891
Itga9	chr9:118515826-118810121	7.578966667	17.73816667
Pank2	chr2:131088235-131124924	7.578166667	6.583290667
Lgals7	chr7:29649404-29651303	7.57666	33.35253333
Zcchc10	chr11:53138190-53146803	7.575543333	4.678722667
Zfp553	chr7:134376956-134381374	7.575483333	6.543423333
Ccdc64	chr5:116099294-116181568	7.573976667	1.963256
Dlg3	chrX:97963061-98013749	7.573703333	9.318686667
BC022687	chr12:114047185-114054456	7.566463333	4.166506667
Rbm43	chr2:51779968-51790529	7.56629	8.200103333
Slc35a5	chr16:45139685-45158786	7.565986667	10.41838667
Bbc3	chr7:16894931-16903683	7.56293	4.452706667
Ccdc137	chr11:120319442-120325667	7.557456667	10.69064667
Lamc1	chr1:155066051-155179916	7.555933333	15.65833333
Fdxr	chr11:115129338-115138283	7.55412	8.714933333
Minpp1	chr19:32560258-32589860	7.552963333	2.95652
Arntl2	chr6:146754051-146781168	7.552367667	3.994998
Adcy6	chr15:98420420-98438064	7.547836667	12.94475667
Nedd1	chr10:92147489-92185163	7.54487	2.696413333
Csrp2	chr10:110357231-110376570	7.54481	5.41611
Hyal1	chr9:107479282-107482464	7.542035333	5.952393333
Rwdd3	chr3:120858319-120874613	7.53727	4.975182667
Kbtbd7	chr14:79826317-79830845	7.53545	4.927243333
Plekha2	chr8:26149616-26212283	7.534186667	1.991120667
Ubxn2b	chr4:6118251-6146935	7.532803333	8.50046
Vrk1	chr12:107248472-107315620	7.53264	6.41547

Rab35	chr5:116081995-116097167	7.532116667	7.097803333
Atg16l1	chr1:89652585-89689003	7.532006667	6.106826667
Ccdc28a	chr10:17933490-17954787	7.529499	8.68558
Fbf1	chr11:116003598-116029492	7.52818	9.389526667
Plekhj1	chr10:80258843-80261371	7.525113333	14.31521333
D16Ertd472e	chr16:78540580-78576933	7.519456667	11.20881
Zbed4	chr15:88582140-88614946	7.517166667	12.83184667
Mtif3	chr5:147763148-147775373	7.51633	4.267016667
Akna	chr4:63028161-63064479	7.514806667	7.517686667
Dgkq	chr5:109076062-109089788	7.511746667	7.847736667
Afap1	chr5:36235967-36346571	7.51008	10.92156667
Zfr2	chr10:80695907-80714868	7.507383333	6.944183333
Ano1	chr7:151774453-151924497	7.50532	3.155884333
Pnkp	chr7:52112550-52118299	7.504153333	2.76574
Gsta2	chr9:78178826-78194952	7.503610667	16.827
Tmem135	chr7:96288230-96487297	7.503296667	9.259246667
Mylip	chr13:45485110-45507309	7.49548	13.10765333
Gadd45gip1	chr8:87356180-87359381	7.483383333	14.69061567
Pam	chr1:99717670-99992209	7.477663333	13.95263333
Ndn12	chr7:72016535-72017926	7.477486667	6.717513333
Zfp790	chr7:30601090-30617061	7.47654	7.101817667
Zbtb5	chr4:45004114-45025284	7.475773333	6.539566667
Tmem141	chr2:25475585-25477525	7.475333333	8.492686667
Mlst8	chr17:24610494-24616023	7.473296667	4.174943333
Zfp142	chr1:74611701-74634602	7.473103333	7.628146667
Irak3	chr10:119578709-119638593	7.473066667	0.088578833
Topbp1	chr9:103207656-103252757	7.471596667	12.16785667
Ephb2	chr4:136209524-136391850	7.46736	14.4908
Rabepk	chr2:34634185-34655432	7.466626667	9.32531
Tbcc	chr17:47027569-47029412	7.46561	7.095353333
Tbc1d13	chr2:29989390-30007533	7.462546667	4.448593333
Msh3	chr13:92981835-93124958	7.461926667	6.142503333
Nat2	chr8:70018773-70026477	7.461753333	1.704963667
Ddx18	chr1:123450411-123464557	7.460483333	5.86206
Fbxo4	chr15:3913563-3929573	7.459356667	2.234324667
Dynlt1e	chr17:6648832-6655064	7.45448	7.10299
Smyd2	chr1:191704370-191746167	7.453673333	12.57579333
4930500J02Rik	chr2:104399340-104411586	7.452466667	1.593138333
Rabl3	chr16:37539979-37572471	7.452068667	11.46143667
5730455P16Rik	chr11:80173993-80191517	7.45098	6.03863
Me1	chr9:86474969-86589947	7.4496	21.29476667
Smarcd1	chr15:99532717-99544426	7.448293333	4.13256
Nagpa	chr16:5195372-5204105	7.448103333	14.43003
Ctf1	chr7:134856249-134861699	7.448046667	14.08434333
Zcchc3	chr2:152237691-152240780	7.447576667	15.11680567
Pcca	chr14:122933549-123289166	7.44696	12.87586
Zfp503	chr14:22803183-22808823	7.442603333	10.72102333
Mier2	chr10:79002989-79017836	7.440566667	3.85329
Acot8	chr2:164618267-164630381	7.436256667	1.44887
Zfp830	chr11:82577846-82581124	7.435953333	9.660813333
Cox16	chr12:82571690-82586097	7.435743333	11.06978667
BC030307	chr10:86168555-86239588	7.434346667	5.50036

Grhl1	chr12:25257151-25302256	7.43427	12.87716667
Msx2	chr13:53562249-53568149	7.433266667	43.585
Sec61g	chr11:16401640-16408487	7.431523333	7.494026667
Preb	chr5:31254039-31262734	7.4257	7.263256667
Shkbp1	chr7:28127151-28141027	7.425676667	12.16265333
Zfp747	chr7:134516050-134519564	7.42406	5.00279
Ino80c	chr18:24263261-24280320	7.423856667	4.318888067
Bcam	chr7:20341486-20355881	7.420223333	13.23816667
Atg4d	chr9:21069742-21078812	7.419233333	4.309916667
D630013N20Rik	chr10:70063796-70118711	7.418603333	0.443875333
Wdr91	chr6:34830425-34860831	7.416883333	6.199273333
Ampd2	chr3:107876979-107889545	7.41678	8.07808
Olig1	chr16:91270013-91272184	7.41503	2.423125
Tbc1d30	chr10:120700875-120748245	7.413476667	11.5917
Uba6	chr5:86539753-86601768	7.413046667	7.73752
Elovl4	chr9:83672298-83699912	7.411843333	22.96227
9230112J17Rik	chr9:60371773-60393689	7.411386667	0.602056667
Mpzl2	chr9:44850426-44862126	7.41073	19.95165
Zfp507	chr7:36557368-36588008	7.408203333	10.57222667
Chn1	chr2:73448716-73613403	7.4062	4.46185
Armc9	chr1:88051354-88174859	7.40138	2.442496667
Zfp518a	chr19:40969194-40992437	7.400666667	13.26183333
Lims1	chr10:57786213-57887439	7.394556667	18.55831667
8430429K09Rik	chr11:3352439-3379834	7.39214	2.385920667
Gm14477	chrX:10882780-10883098	7.390323333	0.197470667
Lonrf1	chr8:37279117-37312570	7.380723333	13.37006333
Hyi	chr4:118032603-118035349	7.377843333	8.85483
Synj2	chr17:5941279-6044290	7.377556667	11.28143333
Tbc1d22b	chr17:29686746-29743753	7.373803333	9.29333
Mall	chr2:127530125-127555633	7.369546667	17.1617
Zfp574	chr7:25862223-25868511	7.368493333	3.768803333
Uevld	chr7:54178585-54213888	7.365603333	3.559187667
Trim3	chr7:112758983-112782013	7.363863333	3.097961333
Dcaf10	chr4:45354972-45392594	7.362963333	6.126366667
Fam86	chr16:5244247-5256049	7.359546667	11.41902333
Nlrx1	chr9:44060795-44076682	7.357096667	5.871673333
Naa16	chr14:79734313-79790475	7.352993333	10.09892
Chrnbl	chr11:69597537-69609439	7.35204	37.72336667
Rnmt	chr18:68460008-68484506	7.351413333	10.72532333
C87436	chr6:86388391-86420381	7.35118	4.705526667
Socs7	chr11:97223864-97259856	7.34867	11.57451333
Thoc1	chr18:9958177-9995482	7.344643333	9.393536667
Lrrc40	chr3:157699666-157731442	7.339026667	4.207513333
Blnk	chr19:41003416-41069025	7.337970333	5.15445
Stk33	chr7:116422729-116582567	7.332066667	3.335282667
Fam82b	chr4:19502212-19534079	7.331806667	4.6002
Zswim6	chr13:108514696-108680258	7.328466667	7.090936667
Zfp60	chr7:28516427-28536708	7.32642	12.99801333
Ormdl1	chr1:53353938-53367089	7.325723333	5.147226667
Etohd2	chr13:59871326-59875041	7.324756667	1.425194333
Tigd2	chr6:59158863-59162027	7.323991	3.224692333
Ddx54	chr5:121063138-121078601	7.322926667	13.1493

Atg4c	chr4:98860624-98926478	7.319736667	11.29284667
Dnali1	chr4:124732582-124742901	7.318696667	5.359647
Katnal1	chr5:149683159-149740223	7.31744	4.329006667
N6amt1	chr16:87354429-87368894	7.316953333	10.69995
Pdzrn3	chr6:101099600-101327891	7.315303333	3.984276667
Vps8	chr16:21423190-21644753	7.314816667	3.540853333
Sip1	chr12:60114379-60128975	7.313186667	2.69774
Cdk14	chr5:4803384-5380251	7.312266667	6.714283333
BC003266	chr4:126921027-126925053	7.310896333	4.094153333
Cinp	chr12:112110819-112127355	7.298323333	3.70031
Pnmal2	chr7:17530030-17534177	7.298166667	13.14732667
Olfr57	chr10:78497467-78498547	7.297929333	0.048937
Rab31	chr17:66001065-66122092	7.296923333	2.464636667
1700030J22Rik	chr8:119493498-119502843	7.296023333	4.565763333
Tm7sf3	chr6:146550797-146583114	7.29302	4.455013333
5430407P10Rik	chr2:6019545-6051231	7.290916667	15.23193333
2810021B07Rik	chr13:17787246-17790939	7.289586667	5.241006667
Hspbp1	chr7:4612122-4636565	7.289356667	15.53545667
Utp15	chr13:99016799-99032947	7.287113333	3.704103333
Bcs1l	chr1:74634934-74639017	7.28693	4.445535667
Tmem41b	chr7:117115700-117129744	7.286373333	11.5219
Mycbpap	chr11:94362660-94382816	7.280216667	4.751246667
Caps2	chr10:111602731-111653611	7.27876	1.543116667
Deptor	chr15:54944037-55085757	7.276926667	10.1063
Tmem186	chr16:8633823-8637794	7.27567	2.515238
2310004I24Rik	chr11:66851381-66866120	7.27469	11.41449
Myo1c	chr11:75465010-75488136	7.27369	6.499596667
Tnfrsf10b	chr14:70167278-70184218	7.272646667	2.26947
Wdr20a	chr12:111976158-112033238	7.266466667	20.87626667
Rab4a	chr8:126329895-126359191	7.262073333	6.026573333
Afg3l1	chr8:126001761-126027816	7.260646667	3.99131
Krtap3-1	chr11:99427340-99427944	7.257626667	20.82166667
6330439K17Rik	chr2:144296292-144353134	7.251203333	2.182083333
Fam53b	chr7:139903766-140004879	7.24802	20.42103333
Arf2	chr11:103828184-103846650	7.246596667	7.51884
A430071A18Rik	chr11:119682124-119695679	7.245783667	1.272726333
Rpgrip1l	chr8:93740928-93837121	7.242073333	9.03555
Ovca2	chr11:74989444-74992310	7.238743333	13.55004667
Zfp933	chr4:147197094-147222484	7.238566667	4.920026667
Zfp40	chr17:23310835-23330195	7.23663	4.318783333
Kbtbd4	chr2:90744942-90750717	7.235733333	16.34886667
Fa2h	chr8:113869037-113917721	7.23218	18.29249667
Ldhd	chr8:114150170-114154222	7.231416667	9.28224
D4Bwg0951e	chr4:80556589-80600205	7.23023	7.1531
Dbt	chr3:116215996-116252899	7.22673	4.736167167
Coasy	chr11:100943938-100947933	7.225653333	11.76588667
Prmt7	chr8:108734953-108775594	7.22492	6.215843333
Bbs5	chr2:69485311-69505626	7.22379	6.56608
Suv420h2	chr7:4691728-4699116	7.219856667	11.27606667
Tmem35	chrX:130829763-130840508	7.215343333	17.38507667
Myb	chr10:20844735-20880790	7.205753333	28.06916667
Ccdc149	chr5:52765889-52862782	7.200663333	5.365413333

Tpra1	chr6:88852244-88862234	7.19944	9.471363333
Prps1l3	chr12:58331398-58343155	7.19756	7.85981
Notch2	chr3:97817460-97954290	7.196416667	9.728066667
Zswim3	chr2:164630613-164647627	7.195896667	5.48035
Orc5	chr5:21992306-22056149	7.195416667	3.04349
Cacnb1	chr11:97864214-97883941	7.19178	22.03811
B430319G15Rik	chr9:92433638-92437707	7.191286667	1.250464667
Traf3ip1	chr1:93391244-93425884	7.189206667	9.669343333
Papd4	chr13:93917354-93962238	7.188966667	7.218943333
Srsf12	chr4:33295965-33320315	7.18632	2.01509
Ttc39c	chr18:12802041-12895561	7.18397	8.035336667
Ino80b	chr6:83071821-83075023	7.180901667	8.404496667
1300018J18Rik	chr15:88919536-88930770	7.17666	10.06680333
Zfp143	chr7:117205215-117238906	7.174993333	7.614783333
Hdac6	chrX:7507247-7525015	7.172173333	4.300916667
Rnaseh2c	chr19:5601872-5602959	7.16851	15.83648667
Fiz1	chr7:4958657-4966330	7.164033333	6.19158
Vangl2	chr1:173934501-173957399	7.15912	23.28708333
Tmem181c-ps	chr17:6635807-6646630	7.1528	7.02839
Usp35	chr7:104457889-104474474	7.148956667	8.642796667
Recql	chr6:142298861-142335607	7.14095	9.337433333
Mtmr14	chr6:113187836-113231386	7.14037	5.50221
Asnsd1	chr1:53401487-53409543	7.140316667	9.80901
Gng10	chr4:59048027-59054771	7.13999	11.50719667
Rnf41	chr10:127848671-127878497	7.13919	16.00873333
Ak1	chr2:32477277-32490578	7.138233333	7.41492
Hist1h2af	chr13:23625779-23626172	7.138226667	3.376276667
Atr	chr9:95758015-95852063	7.138	10.09213333
Fam78b	chr1:168931547-169021433	7.13051	6.354271333
Scarna6	chr1:89681145-89681393	7.129356667	0
2210404J11Rik	chr17:15178575-15201196	7.125213333	9.467103333
Rpl7l1	chr17:46910855-46919605	7.121116667	10.87226667
Kctd1	chr18:15127193-15309955	7.119963333	34.72806667
Rfx1	chr8:86590734-86620891	7.115866667	5.729703333
Amd1	chr10:40007263-40021994	7.11316778	13.73159877
Mapk7	chr11:61302313-61307705	7.107023333	9.824353333
Gm10033	chr8:71894923-71919443	7.103303333	8.261563333
Efs	chr14:55535379-55545625	7.101196667	3.549233333
Gm5113	chr7:30954940-30965228	7.096216667	8.546393333
Serpinb2	chr1:109407999-109422177	7.096086667	35.01394
Btrc	chr19:45438223-45607833	7.095323333	4.832796667
Tmco3	chr8:13288012-13322924	7.094733333	6.502606667
Gm5129	chr5:30061873-30062476	7.093903333	2.935443333
2210404O07Rik	chr10:80855808-80857824	7.093007333	80.54001667
Rbm14	chr19:4800924-4811634	7.089246667	5.400653333
Timm22	chr11:76220668-76229814	7.088593333	8.597186667
Fadd	chr7:151764227-151768341	7.088026667	2.275624667
Mus81	chr19:5482839-5488336	7.086923333	4.464866667
Dusp4	chr8:35870663-35882948	7.07394	7.33669
Tbccd1	chr16:22813287-22857642	7.072823333	7.118433333
Slc35a2	chrX:7461369-7471618	7.06982	9.54751
Faah	chr4:115669260-115690507	7.068813333	14.28319333

Tenc1	chr15:101933418-101946832	7.068033333	3.69034
Sigmar1	chr4:41685368-41688186	7.0657	13.12407667
Cd247	chr1:167718811-167801284	7.062933333	1.15632
Uba7	chr9:107877897-107886387	7.06136	2.497262667
Tmem2	chr19:21852831-21932817	7.058956667	14.81225667
lft27	chr15:77989892-78004538	7.054973333	13.29760667
Mtmr11	chr3:95965892-95975641	7.054493333	3.054718
ltpkc	chr7:27992188-28013616	7.053196667	16.8677
Uap1l1	chr2:25217011-25221146	7.049403333	11.3314
Tpk1	chr6:43295005-43616174	7.040463333	8.198666667
Pygo2	chr3:89234758-89239050	7.03977	9.031556667
2810047C21Rik1	chr7:10034292-10041283	7.036143333	7.260566667
Prr3	chr17:36109483-36116770	7.0331	7.53756
Crtap	chr9:114284248-114299830	7.032186667	2.888492
1190007I07Rik	chr10:82082595-82085973	7.031566667	2.444766667
Ralgps2	chr1:158734296-158869757	7.031313333	13.52874333
Fxc1	chr7:112789053-112790359	7.02705	7.63047
Tti1	chr2:157807538-157835096	7.025506667	8.89512
Rpap3	chr15:97505535-97536253	7.02458	5.374956667
Crat	chr2:30255995-30271268	7.020593333	6.010186667
Nbeal2	chr9:110527292-110556665	7.020213333	16.23753333
Nom1	chr5:29761206-29778709	7.019546667	6.816923333
Gps1	chr11:120645585-120650416	7.01909	8.596266667
Ppp2r5d	chr17:46819939-46841951	7.013536667	20.7607
Msrb2	chr2:19293262-19316597	7.01284	14.79909
Alg10b	chr15:90054741-90060985	7.01059	8.934726667
Chl1	chr6:103460869-103683029	7.008436667	18.1268
Arhgap39	chr15:76554414-76648600	7.00805	11.74631333
Gyltl1b	chr2:92205202-92211193	7.0044	27.86253333
Mgat1	chr11:49057692-49076526	7.004073333	7.048443333
Nfrkb	chr9:31193776-31228918	7.003483333	15.93555333
2810454H06Rik	chr6:134847978-134850803	7.003353333	1.10505
Mgat5	chr1:129101562-129379549	6.99375	21.2503
Znrf3	chr11:5176331-5344850	6.990903333	13.02116667
Fbxw17	chr13:50513245-50529138	6.990593333	3.16291
Nup133	chr8:126421022-126473165	6.989703333	4.03384
Zmym1	chr4:126724337-126738376	6.988766667	11.84899
Phf7	chr14:32050881-32064404	6.98625	2.85789
Cyp4f16	chr17:32673573-32688742	6.98447	13.31818333
Cpt1c	chr7:52214741-52230221	6.983603333	7.380416667
Ormdl3	chr11:98442607-98448559	6.978483333	15.140606
Zfyve20	chr6:92136705-92164805	6.973843333	14.90396333
Dbr1	chr9:99476217-99484762	6.971873333	3.345383333
Apobec2	chr17:48558555-48572053	6.970396	0.361637933
Rufy2	chr10:62442970-62481490	6.96239	6.27727
Galnt2	chr8:126755293-126869622	6.959369667	7.93946
lqcg	chr16:33014355-33056272	6.959256667	4.80083
Mamstr	chr7:52895346-52901138	6.959183333	3.085948
Hcfc2	chr10:82161751-82204137	6.958616667	3.493376667
Fig4	chr10:40907977-41023047	6.954083333	14.78876
Fam134c	chr11:100957635-100981157	6.953066667	5.800143333
Ap1g2	chr14:55717686-55725430	6.95207	7.443016667

Fam46a	chr9:85214045-85220757	6.951963333	6.908456667
Bcar3	chr3:122122697-122233100	6.951286667	3.729046667
1700123O20Rik	chr14:55305007-55309579	6.950006667	8.265013333
Cpeb3	chr19:37095780-37281783	6.94697	9.318636667
Celsr1	chr15:85729187-85864207	6.94533	8.920853333
Chd1l	chr3:97364670-97414113	6.943906667	2.637406667
N4bp2	chr5:66154759-66218023	6.941186667	8.969696667
Hsd1l	chr8:122085877-122099100	6.94097	5.310033333
Il28b	chr7:29307854-29309341	6.94059	0
1700052N19Rik	chr10:5891400-5913936	6.940036667	4.429093333
Fcgbp	chr7:28856254-28905883	6.937966667	8.82604
Gm14403	chr2:177282930-177297016	6.935443333	0.974245333
A930015D03Rik	chr17:36131448-36175119	6.928143333	6.982530333
1700020D05Rik	chr19:5502768-5503787	6.92789	1.574706667
Acot7	chr4:151552208-151645964	6.92497	26.2226
Men1	chr19:6334978-6340894	6.922866667	10.01948333
Uhrf1bp1	chr17:27993451-28036985	6.921166667	4.985423333
St3gal6	chr16:58470654-58523425	6.921046667	7.67098
Fam65a	chr8:108129128-108146118	6.92087	6.398493333
Tceal3	chrX:133200913-133202916	6.920823333	2.358682667
Slc10a7	chr8:81033233-81257904	6.92043	5.198873333
Hps5	chr7:54015835-54051251	6.920406667	8.485546667
Slc35e2	chr4:154975524-154997450	6.918483333	11.64627
Zw10	chr9:48863685-48886878	6.91731	7.882423333
Rab8b	chr9:66691470-66767512	6.915613333	5.654506667
Prosapip1	chr2:130458574-130468539	6.915086667	2.420064667
Gm166	chr7:134725896-134732109	6.914833333	4.571340003
Slc30a7	chr3:115641890-115710324	6.912433333	6.945136667
AK010878	chr12:103991484-103996020	6.91072	9.868196667
Lrsam1	chr2:32780734-32816775	6.908366667	9.489546667
Ftsj1	chrX:7815793-7829532	6.902313333	4.98495
9430016H08Rik	chr1:57463391-57472802	6.900736667	3.199973333
Efcab2	chr1:180336011-180413380	6.899856667	2.207000767
Cep97	chr16:55900000-55934961	6.895426667	6.92422
Ppp1r37	chr7:20116315-20147747	6.890086667	9.67696
Cyyr1	chr16:85456489-85550618	6.888026667	1.290813333
Sec23a	chr12:60059370-60113004	6.88777	7.119258
Abcg1	chr17:31194638-31254926	6.88726	9.695216667
Yipf4	chr17:74888832-74899617	6.885106667	7.061013333
Ptpn13	chr5:103854210-104027380	6.88153	14.99983333
Thbs1	chr2:117937657-117952869	6.880056667	16.69218667
Hirip3	chr7:134005485-134008636	6.876323333	9.299863333
Dem1	chr4:120593806-120597610	6.875566667	2.69644
Mex3b	chr7:90015842-90020086	6.87141	1.765262667
Flna	chrX:71468799-71491873	6.870333333	15.63003333
1110019D14Rik	chr6:13821568-13846421	6.867996667	8.936533333
Cdc42bpg	chr19:6306456-6325652	6.867133333	12.82492667
Tmem201	chr4:149089492-149112145	6.865416667	8.111943333
Tmem181c-ps	chr17:6814820-6825643	6.860446667	7.104303333
Scai	chr2:38921734-39046250	6.8601	8.476756667
D10Bwg1379e	chr10:18307816-18463564	6.857283333	8.406543333
Kctd6	chr14:9046661-9056083	6.8563	3.82835

Nudt13	chr14:21113911-21136797	6.854713333	3.750545
Ap4e1	chr2:126834446-126895550	6.854336667	4.72663
Fgfbp3	chr19:36992039-36994089	6.85416	0.693109
Letm2	chr8:26688961-26707959	6.85329	5.686776667
Tssc1	chr12:29436692-29552356	6.85317	7.342566667
Rpp30	chr19:36158205-36179263	6.850346667	9.836175333
Cdk20	chr13:64533860-64541029	6.849393333	2.593038633
BC067068	chr10:105200240-105278436	6.844293333	9.289156667
Mzt2	chr16:15848533-15863415	6.84342	6.977363333
Uchl4	chr9:64083007-64084169	6.842786667	4.422456667
Znhit2-ps	chr19:6061206-6062468	6.841673333	4.971941667
2310010J17Rik	chr7:97273345-97278446	6.841523333	3.250608667
Kptn	chr7:16705224-16712865	6.840526667	4.42985
Tmem220	chr11:66838655-66848292	6.838123333	3.175770333
Zfp606	chr7:13063653-13081584	6.837243333	4.514463333
Mthfr	chr4:147413185-147433671	6.830753333	9.502046667
Thada	chr17:84589395-84865548	6.828696667	9.51793
AI316807	chr8:23573085-23587351	6.82839	9.527883333
Itpr2	chr6:146060001-146450434	6.82814	9.050853333
Gm10791	chr16:84972455-84979696	6.827206667	1.453972667
Ogfod1	chr8:96561097-96591822	6.82702	9.33157
Cln8	chr8:14888535-14901719	6.823946667	6.87902
Fance	chr17:28450474-28463519	6.823827333	3.54438
Tjap1	chr17:46394799-46419975	6.822013333	2.589266667
Sh3bp5l	chr11:58144219-58161230	6.819633333	8.840096667
Aptx	chr4:40629110-40650220	6.81951	7.45342
Qsox1	chr1:157625284-157660029	6.81671	11.33770333
Ankrd28	chr14:32513200-32643601	6.814773333	10.44030667
Fut9	chr4:25536479-25727150	6.81343	6.69052
Zfp867	chr11:59274698-59285976	6.806456667	3.5175524
Acot2	chr12:85328810-85334825	6.80645	6.589763333
Erc6	chr14:33326706-33394175	6.805963333	8.66608
Gstm7	chr3:107729251-107734663	6.803546667	4.51327
Mrpl11	chr19:4962305-4966995	6.79907	3.295361333
2410042D21Rik	chr2:112219367-112254394	6.793226667	10.52697
Cd63	chr10:128345974-128349874	6.791406667	13.41070333
1700021C14Rik	chr3:88086681-88100760	6.78714	4.73707
Ube2e2	chr14:19406090-19726141	6.784993333	4.193663333
Apeh	chr9:107987744-107996811	6.779706667	4.796696667
Adam1a	chr5:121968612-121971704	6.778196667	2.66825
Agtrap	chr4:147451169-147462173	6.775786667	12.16391667
Cxcr7	chr1:92100577-92112863	6.774884667	3.556056667
Gm9781	chr2:121854318-121879367	6.77237	3.813260469
Man2c1	chr9:56978583-56990017	6.76421	15.84549
Actr6	chr10:89174717-89195040	6.763093333	2.771316667
Ell2	chr13:75844931-75909806	6.76253	18.95993333
Snx16	chr3:10417816-10440124	6.762293333	4.146233333
Dfna5	chr6:50157401-50211768	6.762183333	16.66183333
Pkd1l3	chr8:112138416-112196492	6.757506667	4.661209333
Smcr7l	chr15:80064509-80083801	6.7564	3.984444333
Rac3	chr11:120582781-120585283	6.756316667	8.616066667
Ttc12	chr9:49245065-49294330	6.754003333	1.032973

Tnnt2	chr1:137732962-137748838	6.753723333	1.248671667
Secisbp2	chr13:51747082-51779015	6.753446667	7.060463333
Ttll3	chr6:113339253-113364565	6.751983333	10.30612333
Gemin8	chrX:162608411-162628444	6.746	2.124683333
Zfp185	chrX:70232677-70276882	6.74576	9.05388
Dll1	chr17:15504317-15512787	6.743793333	35.02093333
Fscn1	chr5:143722033-143734868	6.742963333	7.231483333
Cnot8	chr11:57917654-57932096	6.74294	9.886936667
Camk2n2	chr16:20619287-20621351	6.741476667	16.65499333
Irgm1	chr11:48678750-48684848	6.740726667	1.80926
Rrs1	chr1:9535488-9537536	6.740416667	16.35493333
Wwp1	chr4:19536819-19636140	6.738976667	10.28891667
H2-T22	chr17:36175353-36179647	6.738582932	0.444810704
Car2	chr3:14886425-14900770	6.73653	14.16968333
Zfp629	chr7:134750548-134757947	6.735803333	7.104943333
Ydjc	chr16:17147059-17148950	6.73252	2.848083333
Ddx3y	chrY:597157-623056	6.730823333	5.4250861
AU040972	chr11:79295224-79297533	6.72867	27.72902
Decr1	chr4:15844386-15872654	6.726606667	8.3512
Armc7	chr11:115336990-115351780	6.726393333	3.710773333
Setbp1	chr18:78947116-79306130	6.724716667	2.83614
Wdr62	chr7:31025156-31065440	6.72452	9.289923333
Slc35e1	chr8:75001893-75016513	6.721113333	7.745803333
F2r	chr13:96371743-96388388	6.72015	21.16496667
Fmn2	chr1:176431955-176752860	6.71986	16.182
Inpp1	chr1:52846263-52874532	6.718366667	3.39286
Gle1	chr2:29790928-29814952	6.717573333	7.05179
B230216N24Rik	chr1:99927699-99944370	6.717073333	0.845962333
Parp3	chr9:106372683-106378982	6.713823333	3.55678
Tmem64	chr4:15192966-15213900	6.71057	16.25498333
Calr4	chr4:108908236-108926853	6.710238333	0.054709767
D630041G03Rik	chr7:4418846-4422486	6.70738	1.57408
1810048J11Rik	chr12:73637343-73681200	6.701253333	4.539376667
Casc1	chr6:145123391-145159490	6.69946	4.201879333
Aste1	chr9:105297721-105308086	6.69737	9.758002667
Wdr36	chr18:32996878-33026074	6.696283333	9.532666667
H2afy2	chr10:61201394-61246612	6.690546667	24.91509
Rbm11	chr16:75593135-75603070	6.68863	0.7699429
4921511H03Rik	chr5:7304163-7311491	6.686373333	0.40247
Lrch4-sap25	chr5:138070350-138084124	6.68535	2.180077333
Ctnnal1	chr4:56823806-56878083	6.685143333	17.94786667
Samhd1	chr2:156923264-156960958	6.683513333	7.92631
Ddx55	chr5:125002872-125019669	6.67815	17.53095667
Tnip2	chr5:34838744-34856628	6.677486667	11.1704
Hist1h2ad	chr13:23666339-23666732	6.676543333	3.701996667
Sgsm1	chr5:113672239-113739806	6.676476667	6.400437667
Il7	chr3:7572076-7613427	6.674163333	0.063346733
Dixdc1	chr9:50470857-50536089	6.670686667	11.84989
Notum	chr11:120515102-120522151	6.669826667	1.898644
Pelp1	chr11:70206382-70223533	6.667866667	5.211603333
1110005A03Rik	chr11:116704828-116711054	6.66656	10.94588333
BC029214	chr2:25315007-25316614	6.66266	13.55941

2700023E23Rik	chr5:74489107-74490361	6.66212	3.54916
6230400D17Rik	chr14:21521233-21522321	6.661556333	7.106993333
Samd8	chr14:22569752-22617947	6.660833333	11.39857333
6330418K02Rik	chr5:138705272-138707889	6.657673333	3.781430667
Syne1	chr10:5151833-5326342	6.65734	11.64470667
Irak1bp1	chr9:82723412-82741295	6.655433333	7.032689
Clic3	chr2:25312362-25314292	6.652753333	14.15091333
Pus10	chr11:23565673-23632876	6.65204	8.63433
Kcnab2	chr4:151764848-151851658	6.64978	5.161553333
A530054K11Rik	chr13:67717937-67738690	6.643336667	6.459956667
B9d2	chr7:26466176-26471577	6.642923333	7.725223333
Slc22a5	chr11:53678043-53705205	6.641166667	3.713541
Adrbk2	chr5:113339497-113444534	6.640216667	21.28743333
Zbtb37	chr1:162947886-162964390	6.63937	3.541454
Pikfyve	chr1:65233258-65325270	6.637786667	7.18407
Bcl2l13	chr6:120786247-120842860	6.63686	10.22892333
Uty	chrY:433586-582181	6.6359253	6.269323667
Tfdp2	chr9:96096693-96224065	6.634876667	11.1489
Nudt22	chr19:7067508-7070527	6.634826667	13.25108
Kdm1b	chr13:47138907-47179982	6.63288	8.93172
Gaa	chr11:119129280-119147012	6.629593333	18.15067667
Klhl20	chr1:163018508-163061610	6.626516667	8.342663333
1700007J10Rik	chr11:59539418-59553656	6.626099	0.736123
Cd99l2	chrX:68673234-68746024	6.622763333	14.631
1700102H20Rik	chr17:3557823-3559863	6.622563333	0.146437
Qdpr	chr5:45825270-45841468	6.621643333	15.31572067
Nr3c1	chr18:39570198-39646899	6.621443333	6.44454
Sipa1l2	chr8:127941962-128016610	6.620213333	5.119663333
Wdr85	chr2:24817941-24828991	6.619553333	7.252512333
2610029G23Rik	chrX:102275113-102280525	6.619303333	4.90403
Fam107b	chr2:3630729-3699406	6.61888	13.49556667
Exosc5	chr7:26444171-26453051	6.618624	9.386106667
Zscan22	chr7:13483163-13493588	6.615656667	3.409996667
Zbtb24	chr10:41170201-41185380	6.608603333	4.567583333
Bdh1	chr16:31422382-31458987	6.604863333	7.991906667
Frmf5	chr2:121371264-121632793	6.602643333	15.43166333
Ttc27	chr17:75117089-75262910	6.60227	5.430186667
Cul9	chr17:46637553-46683337	6.597893333	3.558726667
Atpaf2	chr11:60214125-60230601	6.59688	15.92910667
Uck1	chr2:32110521-32115625	6.591796667	4.18085
Ppp1r9b	chr11:94852525-94868212	6.585556667	9.747106667
Zfp12	chr5:143996886-144009649	6.584926667	3.480166667
Lrrc28	chr7:74658295-74790122	6.580636667	17.45084667
Nr4a3	chr4:48064119-48096224	6.578486667	2.037390667
Krt77	chr15:101690286-101700049	6.577813333	0.595946667
Ccdc43	chr11:102546001-102559039	6.573804333	12.09198
Pppde2	chr15:81822952-81846570	6.572153333	12.04901
Zfp597	chr16:3861543-3872374	6.5719	10.66471333
Grik4	chr9:42328494-42752454	6.571476667	0.381347967
2810006K23Rik	chr5:124778097-124791853	6.567373333	10.8597
Tex261	chr6:83720407-83725806	6.56678	1.991514
Gm13238	chr4:145427121-145427895	6.56551	0.564809333

5830433M19Rik	chr4:94166769-94223487	6.560826667	3.94579
Tyk2	chr9:20908511-20935719	6.560673333	6.269906667
Psd4	chr2:24240916-24264249	6.557266667	5.875533333
Zfp961	chr8:74474964-74494232	6.553333333	16.47427
Evpl	chr11:116081872-116099405	6.551463333	11.86183667
Usp49	chr17:47767638-47821016	6.550873333	3.072987
Glb1l	chr1:75194809-75207353	6.545293333	6.202775667
Mettl6	chr14:32291983-32308163	6.542043333	16.34738667
Noa1	chr5:77723193-77739111	6.541706667	11.29756667
Fam164c	chr12:86629540-86640308	6.5389	1.092303667
Nkd2	chr13:73956775-73985079	6.53879	20.3166
Ddah1	chr3:145421655-145557241	6.537746667	9.016613333
Gnpnat1	chr14:45996095-46008471	6.5349	3.86201
4732491K20Rik	chr17:12511718-12520116	6.534743333	2.739635233
Fam83g	chr11:61497911-61523452	6.534513333	6.92009
Mesdc2	chr7:91040509-91050042	6.532296667	9.661586667
Spata7	chr12:99866393-99908024	6.524026667	3.147563333
Tubg1	chr11:100981444-100987733	6.52185	9.086093333
Thrb	chr14:18493473-18870602	6.521366667	9.424536667
Tmem161b	chr13:84361900-84435571	6.519996667	4.979173333
Tssk4	chr14:56269020-56271376	6.514496667	0.203556333
2610301B20Rik	chr4:10801644-10826570	6.514153333	11.25817333
Mlh1	chr9:111130731-111174112	6.508343333	16.79306667
Sorl1	chr9:41776571-41932372	6.50724	13.49443333
Ppp1r16a	chr15:76502109-76525345	6.50559	10.62179
Tpm2	chr4:43527583-43536260	6.50334	3.683893333
Foxn2	chr17:88840051-88889873	6.494196667	10.21663333
Dscr3	chr16:94719330-94748236	6.49108	7.966693333
Lig1	chr7:13862661-13896776	6.490763333	6.369893333
Cc2d2a	chr5:44053617-44132209	6.483613333	12.10045
Galk2	chr2:125684953-125810034	6.4831	4.73915
Spns1	chr7:133513573-133521448	6.481983333	9.67243
Atad3a	chr4:155114748-155135207	6.472396667	13.78703
Fn3krp	chr11:121282686-121292082	6.47197	8.422037
Vegfb	chr19:7056961-7062141	6.469711	7.988943667
Slc30a5	chr13:101572602-101603382	6.46875	6.55939
Ccdc57	chr11:120687855-120794186	6.468666667	3.26113
Piga	chrX:160857718-160871847	6.465033333	12.57023333
Fbp2	chr13:62938244-62959730	6.464643333	0.844486333
Nop2	chr6:125081900-125094771	6.464593333	14.40492667
Vrk3	chr7:52003998-52032884	6.463783333	2.828173333
Spag1	chr15:36109284-36164932	6.462333333	8.80449
2610307P16Rik	chr13:28551902-28977291	6.461476667	7.36041
Mudeng	chr14:49686169-49707398	6.460836667	10.38829
Rrp36	chr17:46804404-46811204	6.460646667	8.354786667
Gnao1	chr8:96334737-96493288	6.459526667	6.16638
Arl6ip5	chr6:97160785-97183309	6.452576667	10.69123
Nol8	chr13:49748718-49774384	6.448616667	7.71392
Kbtbd3	chr9:4309742-4331732	6.44255	12.03881667
Gmeb2	chr2:180986155-181022671	6.442466667	6.472619333
Bcas3	chr11:85166665-85639560	6.440073333	9.324536667
Rab13	chr3:90024738-90029885	6.439825	3.302295333

Aasdhppt	chr9:4294792-4309494	6.43466	8.74575
Ndufa11	chr17:56857184-56863671	6.434523333	13.4124
B330016D10Rik	chr4:141102076-141104228	6.433483333	1.3286576
Bop1	chr15:76283425-76307699	6.43269	12.64205667
Zfp710	chr7:87169699-87237637	6.430373333	17.53666667
Hif1an	chr19:44637343-44650764	6.429736667	4.298407667
Gpaa1	chr15:76161723-76165329	6.429416667	6.704086667
Pcid2	chr8:13077524-13105343	6.42803	3.368031
Sertad2	chr11:20443255-20553026	6.423693333	13.53514
Lphn2	chr3:148478549-148617599	6.423133333	7.184333333
Sez6	chr11:77744444-77792544	6.422213333	1.442855667
Cx3cl1	chr8:97296079-97306326	6.41474	15.01887
Pqlc1	chr18:80451983-80489463	6.410923333	12.26799
Pex10	chr4:154441138-154446515	6.41011	1.819961
Eno1	chr4:149611305-149622982	6.39483	1.142615627
1200011I18Rik	chr14:76486038-76510622	6.394306667	8.39668
Kcnn3	chr3:89324085-89476416	6.39169	12.51999
Cyfp2	chr11:46007350-46126361	6.386906667	4.504533333
Sft2d3	chr18:32068747-32071557	6.385086667	4.44918
Myom1	chr17:71368896-71476196	6.384336667	2.53422
Gstt2	chr10:75294589-75297626	6.382013333	8.16667
Nkx2-3	chr19:43686814-43690382	6.38086	7.5356
Nprl3	chr11:32132418-32167614	6.380123333	5.324203333
Tgm1	chr14:56318845-56332329	6.377533333	30.89106667
C330013E15Rik	chr15:100444570-100445541	6.373494	1.13546
Ppp1r8	chr4:132382839-132399084	6.37301	22.80806
Nrarp	chr2:25036277-25038852	6.37254	5.172686667
Tkt	chr14:31362334-31387908	6.3709	6.982123333
Gm10767	chr13:67006350-67010102	6.369413333	2.744693333
Abhd8	chr8:73980598-73987556	6.369383333	5.22141
Slc25a24	chr3:108926066-108971327	6.368086667	14.28083333
Pepd	chr7:35697425-35829727	6.367606667	3.014030667
Fastkd5	chr2:130439573-130455763	6.36683	7.62178
Fcna	chr2:25480186-25483494	6.363353333	9.48799
Oscp1	chr4:125735808-125766578	6.361616667	0.558099
Ccdc62	chr5:124380697-124419904	6.358906667	3.002363333
Alyref	chr11:120455829-120459679	6.35874	4.593502667
Ccdc76	chr3:116284253-116317505	6.356966667	6.28852
Dph5	chr3:115591100-115632241	6.356713333	6.488276667
Abcc10	chr17:46440178-46464972	6.35597	2.303366667
Dpysl5	chr5:31014267-31101742	6.355673333	56.26813333
Commd8	chr5:72548238-72559422	6.351543333	10.83123667
Zbtb33	chrX:35542969-35550223	6.348103333	11.04772667
Gkap1	chr13:58334711-58375549	6.346896667	3.081623333
Dgkz	chr2:91772978-91803720	6.34126	11.33543667
Nt5c3l	chr11:100283634-100302403	6.33982	11.25290667
Lins	chr7:73834774-73862142	6.33636	4.77812
Pml	chr9:58064986-58097593	6.33461	10.75210333
Zfp462	chr4:54960816-55096435	6.33353	15.79646667
Plekhf2	chr4:10915808-10934766	6.32931	18.5861
Rdh13	chr7:4377266-4397259	6.32701	10.22679667
A530098C11Rik	chr1:44066252-44076851	6.31599	0.102538667

Heatr1	chr13:12487641-12531160	6.313753333	3.999396667
Fbxl12	chr9:20442230-20449211	6.311416667	4.658076667
Tm2d1	chr4:98022060-98049956	6.31095	10.16616667
Rpa2	chr4:132324274-132334661	6.30944	2.847513333
Nbl1	chr4:138638206-138648885	6.308746667	13.58798333
Mto1	chr9:78296016-78321959	6.30668	6.004032667
AW146154	chr7:48734243-48755260	6.306433333	7.31398
Zc3h12a	chr4:124795657-124805125	6.30422	2.380006667
Bcr	chr10:74523640-74647668	6.303896667	5.584833333
Tbl3	chr17:24837597-24844598	6.292733333	1.468696667
Dennd3	chr15:73342989-73402672	6.29163	3.654283333
Cyb5d2	chr11:72590733-72609341	6.29155	3.321026333
Plcg2	chr8:120022190-120159042	6.2912	2.65975
Nup85	chr11:115425757-115445238	6.289993333	9.704776667
Zfp51	chr17:21587315-21602553	6.287026667	5.398536667
Gm15910	chr10:120294684-120300384	6.28622	2.425011667
Mrm1	chr11:84626562-84633017	6.284893333	5.957112333
1700120E14Rik	chr18:74655331-74690778	6.284166667	3.857216667
Lpl	chr8:71404453-71430831	6.283806667	0.071138947
Arf5	chr6:28373639-28376499	6.283646667	18.15055667
Eif2b4	chr5:31489930-31495512	6.281273333	1.609655333
D11Wsu47e	chr11:113545725-113555961	6.278303333	2.506739667
2700097O09Rik	chr12:56146647-56181097	6.276563333	5.198423333
5430411K18Rik	chr18:78135205-78231766	6.276526667	7.996646667
Chaf1b	chr16:93884145-93906351	6.27615	2.327573333
Dclre1a	chr19:56603650-56622712	6.275683333	3.183226667
Stxbp4	chr11:90337806-90499422	6.270983333	7.337913333
Rffl	chr11:82617320-82684712	6.26963	10.97936667
Rccd1	chr7:87461501-87469340	6.264596667	2.516519333
Traf5	chr1:193821087-193916445	6.262033333	4.946429
Lrrc33	chr16:32142910-32165562	6.26039	1.130409333
Myh10	chr11:68505416-68630126	6.25646	4.26384
Hpcal1	chr12:17697619-17798732	6.254823333	6.116266667
Zfp938	chr10:81687601-81704020	6.253453333	2.4770518
Mthfd1l	chr10:6179459-6373466	6.252433333	3.629691333
Kitl	chr10:99478457-99563046	6.252246667	4.102513333
Tchh	chr3:93246251-93252999	6.249656667	41.2497
Slc30a1	chr1:193730659-193737126	6.246053333	7.9805
Trim65	chr11:115986021-115992442	6.243983333	5.402896333
Zfyve21	chr12:113052380-113066599	6.24265	7.505627333
Esyt1	chr10:127947305-127962915	6.23911	7.71583
Vhl	chr6:113574014-113581627	6.238336667	4.639046
Bach2	chr4:32504409-32673083	6.234183333	1.562249667
Atg10	chr13:91074953-91363592	6.23367	5.024026667
Omp	chr7:105291868-105293957	6.230083333	0.017902767
Marveld1	chr19:42221878-42226193	6.224953333	7.519693333
Akt1s1	chr7:52104593-52110791	6.22295	8.264000667
Dusp12	chr1:172804318-172815671	6.22161	6.426196667
Sfxn1	chr13:54167213-54203714	6.221403333	31.8867
Slc25a14	chrX:45976756-46015471	6.219906667	9.931393333
Krt81	chr15:101289491-101294196	6.219707	0.346444333
Psmg3	chr5:140299547-140302797	6.216366667	8.812943333

Smarcal1	chr1:72629824-72683364	6.215423333	5.755756667
B4galt7	chr13:55701471-55711315	6.201666667	4.697939
4930523C07Rik	chr1:161974510-162008717	6.200663333	5.655693333
Unkl	chr17:25325344-25371387	6.19683	9.872483333
Nhs	chrX:158274199-158597722	6.194326667	4.978103333
Ccnj	chr19:40905768-40923060	6.191476667	13.41641
Hsd17b12	chr2:93872853-93998066	6.191396667	13.45772
Fam43b	chr4:137950006-137952373	6.18821	4.362403333
Efhc2	chrX:16709174-16896494	6.18401	26.552
Bcdin3d	chr15:99300514-99305161	6.181783333	1.966560333
Rxrb	chr17:34168756-34175348	6.177253333	8.192976667
Abca1	chr4:53043660-53172767	6.17718	1.588386667
Mettl11a	chr2:30663496-30678534	6.169766667	1.873303333
Tmem25	chr9:44601861-44607299	6.168346667	2.62652
Atm	chr9:53245226-53344776	6.168313333	7.31412
Abtb1	chr6:88785907-88791929	6.166486667	2.844463333
Ppargc1b	chr18:61457789-61560085	6.166466667	0.582414
Dohh	chr10:80847172-80851097	6.16299	2.423483333
Nr2f6	chr8:73898017-73905851	6.162313333	3.686536667
Hmbs	chr9:44144430-44152311	6.16086	7.35517
Tbrg3	chr15:82720912-82728891	6.160216667	8.578076667
Slc36a4	chr9:15514212-15543233	6.158746667	5.102976667
Ccdc120	chrX:7308839-7318450	6.15672	15.86466667
Ythdc2	chr18:44988318-45049374	6.156053333	4.2725
Klk13	chr7:50967936-50982128	6.155796667	7.489443333
Zfp74	chr7:30717809-30736912	6.155406667	11.61573333
Wdr12	chr1:60133711-60155344	6.155312667	9.17344
Atp9b	chr18:80930879-81130797	6.149126667	8.72159
Cadm1	chr9:47338434-47661468	6.144223333	7.27768
Gm15455	chr1:33892743-33895759	6.14291	4.763843333
Kit	chr5:75971011-76052746	6.140886667	160.062
6330408A02Rik	chr7:13844315-13864070	6.139403333	0.744254733
Pfn2	chr3:57645816-57651679	6.13938	18.27148667
Carf	chr1:60155124-60207878	6.137496667	1.103329667
Pabpc4	chr4:122960153-122976076	6.13717	7.582906667
Taf5l	chr8:126520215-126545209	6.13683	13.32905
Gm3435	chr17:15146803-15159413	6.13675	2.93977
Ccl17	chr8:97334352-97335936	6.135877333	11.83992
Orai1	chr5:123465082-123480461	6.13586	6.261513333
Slc35b3	chr13:39024008-39052744	6.133126667	9.79686
Relb	chr7:20191570-20214787	6.130216667	3.724458
Mvk	chr5:114894314-114910599	6.12987	44.29468667
Olfm3	chr3:114607280-114828174	6.123533333	3.360769667
Ube2v2	chr16:15551078-15594611	6.122826667	8.687926667
Scrn3	chr2:73150708-73175864	6.122073333	4.881963333
Abhd14a	chr9:106342381-106350009	6.121313333	2.027731
Amt	chr9:108199252-108203928	6.12091	2.371091667
Trim34a	chr7:111392970-111410750	6.120793333	3.508454667
Rfng	chr11:120642058-120645518	6.120206667	7.45326
Zfp882	chr8:74432504-74442750	6.118583333	6.31931
Vma21	chrX:69062117-69070045	6.11826	5.012646667
Eif2b3	chr4:116692012-116759457	6.112933333	10.80545333

Uxs1	chr1:43807075-43884553	6.112746667	6.29264
Zfp281	chr1:138521477-138526968	6.11186	8.767173333
Pigh	chr12:80181657-80190657	6.111496667	23.84731667
Ccdc112	chr18:46441804-46471582	6.1013	11.09161333
Rbp2	chr9:98390955-98410190	6.10108	37.70725333
Igtp	chr11:58013057-58021094	6.098006	5.677926667
1810014B01Rik	chr10:86148271-86152699	6.09581	2.19589
Igfbp3	chr11:7106095-7113926	6.0876	16.47467333
Pih1d1	chr7:52409767-52415434	6.084076667	14.50095
Maoa	chrX:16196823-16264938	6.08011	4.743143333
Dedd2	chr7:25987858-26004878	6.077956667	12.55552333
C130060C02Rik	chr19:16059564-16085402	6.076773333	0.432524333
Zfp277	chr12:41041632-41172377	6.076433333	5.769103333
2210039B01Rik	chr12:74649469-74652973	6.074119	0.4369742
Hist1h2an	chr13:21878694-21879087	6.07247	2.851196667
Tmem69	chr4:116224132-116228548	6.069156667	5.554346667
Ano9	chr7:148287117-148303705	6.068396667	10.82158
Prdm10	chr9:31122691-31186128	6.060223333	5.419933333
Zfp746	chr6:48012393-48036592	6.054366667	13.3043
Gm12060	chr11:23458059-23458842	6.052713	5.785052
Gm15708	chr5:145037929-145041383	6.051673333	11.55208333
Paqr4	chr17:23873152-23877297	6.048666667	8.303293333
Rnf26	chr9:43918863-43921134	6.047926667	8.233331667
Rnase1	chr14:51764676-51766442	6.042873333	13.8164
Rfc3	chr5:152445398-152453783	6.040086667	4.342246667
Ap3s1	chr18:46901570-46950480	6.03799	5.500306667
Pwwp2b	chr7:146434380-146453152	6.037787333	11.13355
Edem1	chr6:108778634-108809350	6.035376667	8.62315
Ppie	chr4:122804367-122817184	6.03342	2.638713333
Fads6	chr11:115144679-115158860	6.028173333	4.547372667
2900008C10Rik	chrX:11711579-11737472	6.026133333	1.77684
Fam126b	chr1:58579649-58643177	6.025386667	5.07107
Fbxo6	chr4:147519824-147526244	6.023473333	8.655996667
2900060B14Rik	chr1:120355245-120355842	6.022846667	0.915683333
Dnajc25	chr4:59016064-59036270	6.019863333	1.641449667
Slc10a1	chr12:82054171-82069066	6.016813333	8.625473333
Celsr2	chr3:108193765-108218412	6.01008	16.85096667
Tle2	chr10:81038031-81053590	6.005883333	7.485556667
Xpo4	chr14:58201107-58283793	6.005663333	5.142976667
4930539E08Rik	chr17:29033339-29052269	6.004503333	0.176604667
Lama5	chr2:179911077-179960564	6.00371	14.36553333
Sass6	chr3:116297925-116333902	5.997873333	11.84212
Moap1	chr12:103978039-103981871	5.997793333	5.674306667
Acox1	chr2:127680363-127949628	5.994826667	0.0211859
Utp18	chr11:93720556-93747080	5.993356667	9.568723333
Eif2c3	chr4:126017921-126106786	5.986096667	11.33774333
Tmem194b	chr1:52687548-52708763	5.986043333	14.18795
Porcn	chrX:7770975-7783651	5.984796667	15.562
Guf1	chr5:69948180-69964869	5.98061	11.6128
Ocel1	chr8:73895196-73897588	5.980606667	3.311623333
Gpr180	chr14:118536348-118563454	5.97826	7.004716667
Mgat2	chr12:70285144-70287760	5.97686	1.957033333

Nup210	chr6:90963060-91066820	5.97633	9.686063333
Nicn1	chr9:108192787-108198827	5.975703333	4.502773333
E030011O05Rik	chr9:96631993-96653250	5.975653333	1.307983333
Dbil5	chr11:76031114-76032167	5.971506667	0
Slc7a11	chr3:50168857-50247535	5.96707	4.83299
Enox1	chr14:77556569-78121570	5.964803333	0.463601933
Rrp9	chr9:106379639-106387746	5.962593333	1.205379333
Sap30	chr8:59961498-59966657	5.960843333	34.45566667
Atp10b	chr11:42963378-43075787	5.958326667	2.770523333
Bysl	chr17:47736279-47748441	5.958163333	5.84197
Plscr3	chr11:69659873-69665560	5.95799	14.209
Spopl	chr2:23365573-23427624	5.95742	3.542446667
Pgm3	chr9:86446082-86465449	5.948933333	3.119193333
Helb	chr10:119520663-119550021	5.94839	3.043243333
D9Erttd402e	chr9:122714664-122745450	5.947763333	6.378316667
Ascc1	chr10:59465552-59562738	5.93519	8.700873333
Padi1	chr4:140368895-140401693	5.93435	5.326003333
Dock11	chrX:33428826-33616557	5.932976667	14.20405
Fam110a	chr2:151795133-151805955	5.929136667	18.03513333
Ppp2r2c	chr5:37259808-37346317	5.927186667	9.459436667
Farsa	chr8:87380884-87393156	5.92505	14.30415
Bud13	chr9:46091094-46106866	5.924613333	4.79057
Gm16119	chr2:181313184-181319820	5.917293333	9.507633333
Sf3a2	chr10:80261479-80267667	5.915273333	3.797347667
Map4k5	chr12:70904743-70994150	5.913743333	18.35149333
Slc6a9	chr4:117507862-117541910	5.913453333	30.92089667
1500010J02Rik	chr11:68829412-68849975	5.91208	7.753596667
Abhd10	chr16:45730509-45743019	5.910596667	14.01776333
4930471M23Rik	chr5:30950311-30962102	5.909676667	4.43455
Cxxc5	chr18:35989471-36021342	5.901853333	6.940536667
Tbc1d10b	chr7:134340973-134351982	5.901393333	6.862396667
Nup188	chr2:30141952-30199782	5.897963333	7.774703333
Rad9	chr19:4195197-4201603	5.89778	14.24078333
Slc25a21	chr12:57813620-58298459	5.89645	7.18402
Zfyve16	chr13:93257703-93300765	5.89495	13.00926667
Osbpl1a	chr18:12913820-13100350	5.888973667	6.018623333
Trnau1ap	chr4:131867677-131885453	5.879376667	4.03319
Smpd2	chr10:41206977-41210146	5.879116667	14.20630333
St5	chr7:116667424-116760661	5.873563333	15.67743333
Pip5k1a	chr3:94863519-94910780	5.87245	8.087680333
1700029I01Rik	chr4:146514185-146556724	5.87101	2.621096667
Cep135	chr5:77020738-77075491	5.869463333	3.75374
Msi1	chr5:115879693-115904211	5.867106667	27.98993333
Dus2l	chr8:108535406-108577719	5.862813333	9.08663
D8Erttd82e	chr8:37157881-37210841	5.858806667	1.768421667
Mark4	chr7:20011423-20043843	5.858173333	7.184333333
1500004A13Rik	chr3:88625931-88636409	5.848586667	3.678438667
Pm20d1	chr1:133693971-133714692	5.845333333	1.320849333
Sec24d	chr3:122970413-123068554	5.844896667	4.523167333
4933427I22Rik	chr4:139482025-139499434	5.838193333	0
Dhrs3	chr4:144482729-144517548	5.837576667	10.55258
Senp8	chr9:59582065-59598456	5.832326667	6.735366667

2700049A03Rik	chr12:72237834-72344290	5.828053333	8.163503333
Mtap2	chr1:66221902-66489157	5.827756667	13.6525
Cyp11a1	chr9:57862823-57874830	5.826766667	3.007696667
Gm15417	chr3:89195785-89202701	5.823876667	9.527804333
Slc30a6	chr17:74794947-74823569	5.820923333	14.85093667
Taco1	chr11:105927420-105934926	5.817733333	4.183242667
D430042O09Rik	chr7:132851389-133018311	5.81685	4.066593333
Mrrf	chr2:35991917-36045803	5.816756667	5.743043333
Defb14	chr8:19194327-19195309	5.81391	0
Urgcp	chr11:5613419-5662379	5.811603333	4.02732
H2-Eb1	chr17:34442811-34453619	5.811036667	3.821416333
Zfp46	chr4:135841983-135849857	5.810136667	12.38114
Kctd5	chr17:24184686-24210452	5.807533333	4.445646667
ORF19	chr17:66460885-66469843	5.806476667	4.82009
Magohb	chr6:131234406-131243262	5.806256667	3.114147
Hebp1	chr6:135087536-135118233	5.805216667	0.790746667
Lin9	chr1:182571464-182620818	5.803556333	6.899833333
Aph1c	chr9:66662800-66682513	5.801256667	6.325066667
Aph1b	chr9:66623293-66643230	5.7999	11.05696333
Pip5k1c	chr10:80755716-80782719	5.798056667	11.55188333
Rgs10	chr7:135517138-135561686	5.797	0.335537667
D7Ert443e	chr7:141457944-141568511	5.796106667	4.31407
Wdr83	chr8:87598933-87604645	5.795823333	2.652586667
Ttc30b	chr2:75773906-75776519	5.795136667	4.17679
Ppil1	chr17:29387779-29400916	5.791013333	4.90307
Wrn	chr8:34344844-34495999	5.789713333	8.007076667
Cxcl10	chr5:92775664-92777915	5.789391	0.037804333
Lamc2	chr1:154969885-155033577	5.789156667	14.06628333
A330021E22Rik	chr5:5580981-5664232	5.788563333	4.818636667
Hapln1	chr13:89680240-89751437	5.786753333	0.040570333
Trpm4	chr7:52558524-52589150	5.783413333	13.4442
Gprc5c	chr11:114712845-114733931	5.77935	52.76423333
9930005F22Rik	chr4:155506278-155507528	5.775576667	1.1916173
Lsm6	chr8:81328766-81345051	5.773343333	11.28317667
Prim1	chr10:127452270-127467086	5.77274	3.67315
Rab44	chr17:29272000-29285921	5.772236667	0.851171333
Zfp711	chrX:109714134-109748671	5.767596667	8.007066667
Zfp677	chr17:21520711-21536229	5.76305	4.741046667
Psph	chr5:130271433-130293129	5.761403333	4.86451
Zfp654	chr16:64780172-64786147	5.761133333	8.99956
Mageh1	chrX:149470708-149472106	5.76031	4.895289667
B930092H01Rik	chr9:61107033-61141616	5.75653	0.210681433
Prr18	chr17:8533270-8536978	5.755486667	7.969933333
Arhgef7	chr8:11728104-11835217	5.75199	7.35435
lpo4	chr14:56244465-56254515	5.751743333	7.03796
Tbc1d25	chrX:7731597-7753307	5.74831	20.13773667
Akr7a5	chr4:138866658-138874701	5.745873333	4.528926667
Myo5c	chr9:75079820-75153257	5.740616667	9.864570667
Pafah2	chr4:133952274-133983327	5.738266667	19.68166333
5730405O15Rik	chrX:12619140-12622421	5.736133333	0.041494667
Pot1b	chr17:55791322-55851926	5.735673333	4.97488
Cyp2a5	chr7:27620357-27628283	5.728348333	28.32651633

Kank3	chr17:33947467-33959859	5.726402	0.75862
Gatsl2	chr5:134575617-134617628	5.723497333	14.15918333
Zfp358	chr8:3493137-3497208	5.717913333	6.816426667
Ap4b1	chr3:103613439-103625948	5.717873333	2.510079667
Zfp653	chr9:21859903-21875789	5.712643333	2.272303333
Lgals4	chr7:29618812-29626722	5.710493333	8.90965
Ppfa2	chr10:105907365-106370524	5.70899	0.273581667
2810029C07Rik	chr12:112810527-112812613	5.70644	8.781153333
Endou	chr15:97541449-97561836	5.706143333	7.464946667
Trim59	chr3:68839215-68848664	5.69456	1.341657667
2810030E01Rik	chr2:17965713-17970076	5.69377	1.950343333
Il1rap	chr16:26581790-26725233	5.69283	14.9526
Casr	chr16:36493781-36562220	5.69279	7.874873333
Snapc4	chr2:26218284-26236173	5.69097	9.17032
Map3k13	chr16:21892041-21931950	5.686796667	4.769056667
E130317F20Rik	chr10:79314121-79317716	5.684276667	1.413887333
Nadsyn1	chr7:150981498-151008746	5.683776667	2.958213333
2610044O15Rik	chr17:95214078-95233760	5.68366	9.104103333
Gtf2e1	chr16:37509881-37539855	5.682973333	4.488516
Zfp90	chr8:108939238-108949789	5.680673333	5.0884
Adrb2	chr18:62337469-62339613	5.679386667	8.350556667
Ankrd22	chr19:34197038-34240531	5.678633333	5.70515
Cox18	chr5:90643749-90653021	5.676996667	4.601893333
Qtrtd1	chr16:43861525-43889789	5.675810667	4.114011333
Gm16576	chr15:79573127-79587824	5.675186667	0.408329667
4930402H24Rik	chr2:130533588-130665846	5.674403333	3.136773333
Wnk4	chr11:101121880-101138723	5.67401	1.507269667
Tmem160	chr7:17038127-17040839	5.668236667	6.48668
Nsun6	chr2:14916757-14976499	5.667476667	4.139896667
Chst11	chr10:82448241-82658636	5.664173333	11.74947333
Bet1l	chr7:148039282-148042282	5.66235	4.604624433
Pcdhb19	chr18:37656651-37661365	5.661263333	4.448403333
Slurp1	chr15:74557073-74558456	5.661066667	20.91542667
Impdh2	chr9:108462831-108467897	5.658616667	9.453716667
Snrpc	chr17:27977031-27988912	5.656836667	1.212819333
Zfp451	chr1:33818597-33871272	5.655256667	8.76148
Rnf25	chr1:74640325-74647971	5.653733333	8.354866667
Lemd3	chr10:120360466-120416386	5.653116667	4.09455
Fhit	chr14:10382607-11994546	5.652936667	2.566016667
Aldh7a1	chr18:56685389-56732593	5.65153	7.852536667
Hivep3	chr4:119487282-119808016	5.65116	7.098926667
Prps1	chrX:136991141-137010679	5.650603333	7.612633333
Clasrp	chr7:20166391-20189817	5.64921	2.822876667
Lnx1	chr5:74988471-75098928	5.64546	5.19591
Sema4g	chr19:45063833-45077885	5.643863333	6.0994
Ehbp1l1	chr19:5707373-5726317	5.643303333	1.946787333
Zfp68	chr5:139044879-139060971	5.641336667	13.839836667
Rapgef2	chr3:78866450-78949797	5.640436667	6.38379
Mmgt1	chrX:53838688-53851096	5.640416667	8.051253333
Mad2l1bp	chr17:46284333-46290500	5.63694	5.176596667
Gcsh	chr8:119505727-119517349	5.635308667	17.53017
Ints2	chr11:86024184-86071070	5.635213333	7.782486667

Ppp2r3c	chr12:56381800-56403987	5.63315	4.637086667
Zfp738	chr13:67768377-67784449	5.62987	4.291843333
Limd2	chr11:106017569-106021456	5.62957	7.51465
lfi202b	chr1:175892699-175912975	5.627756667	1.57517
Hoxb2	chr11:96212945-96215328	5.62583	1.95464
Baiap2	chr11:119804405-119868096	5.6257	17.7106
Zfp780b	chr7:28744818-28764176	5.622173333	10.78779333
Chic1	chrX:100551814-100591457	5.621316667	6.933516667
Snrpn	chr7:67127387-67285105	5.619046667	3.404249333
Cxcl17	chr7:26185071-26197905	5.619023333	36.55066667
Tas2r140	chr6:133004872-133005811	5.617386667	0
2610037D02Rik	chr15:96020904-96028405	5.615416667	0.008208467
Al646519	chr2:147187278-147188529	5.614496667	0.338820667
Tmem38b	chr4:53838916-53874890	5.60799	8.57338
Nubpl	chr12:53198732-53411946	5.606466667	4.598823
Cxcr6	chr9:123715594-123720872	5.604903333	0.915214733
2700046G09Rik	chr19:32463705-32465674	5.603363333	1.742507
Eefsec	chr6:88207327-88396533	5.60316	5.197793333
Tecpr1	chr5:144956217-144984447	5.60028	4.63908
Kcnj13	chr1:89282858-89291304	5.6001	9.390723333
1700080N15Rik	chr2:4053110-4062187	5.599413333	0.95136
BC024659	chr13:41345212-41371946	5.59881	8.69518
Aldh4a1	chr4:139178808-139205606	5.596423333	5.53577
Lgmn	chr12:103632307-103677907	5.596286667	8.84448
Gm15441	chr3:96359690-96370724	5.595566667	1.336252
BC048403	chr10:121176992-121189915	5.592733333	3.744583333
Ttc39a	chr4:109079704-109117350	5.591623333	33.11243333
Zfp768	chr7:134486308-134488828	5.590783333	5.345926667
Slc35b2	chr17:45701100-45704618	5.589866667	10.45612333
lkbkap	chr4:56762551-56815203	5.58885	5.415513333
Scd3	chr19:44277777-44318506	5.586696667	1.603951333
Eif2ak4	chr2:118214352-118300970	5.579223333	5.729674333
Gprasp2	chrX:132373572-132379269	5.57915	16.21351333
Sh3rf2	chr18:42213363-42318349	5.578896667	6.320043333
Fbxo31	chr8:124073342-124102706	5.574356333	4.27389
Nanp	chr2:150855420-150865115	5.572663333	6.693980667
Bola3	chr6:83299477-83308386	5.571432	7.40047
C2cd3	chr7:107520742-107618668	5.57109	9.730116667
Whrn	chr4:63075943-63156985	5.562881333	4.02172
Plod2	chr9:92437060-92503265	5.56012	7.172933333
AA986860	chr1:132628552-132641199	5.556265333	8.146723333
Vat1	chr11:101320061-101327513	5.552496667	12.41762
Apoc1	chr7:20274829-20278007	5.5522	14.9401
Nrm	chr17:35998262-36002345	5.55189	5.113028667
Ppp1r13l	chr7:19946564-19963882	5.551473333	12.08406667
Gpatch4	chr3:87847029-87859914	5.550796667	5.683360667
Grin3b	chr10:79433468-79439935	5.550703333	1.930238
Ephb3	chr16:21204867-21223377	5.5501	10.04978333
1700066M21Rik	chr1:57434463-57442266	5.547886667	1.565465733
Mcm3ap	chr10:75931715-75978602	5.54782	6.129126667
Gcn1l1	chr5:116015271-116072663	5.547086667	7.317723333
Spink4	chr4:40867088-40878428	5.546849	0.183995667

Odz3	chr8:49311018-49760044	5.544783333	4.380826667
Nhlrc3	chr3:53255917-53267180	5.543863333	6.664516667
Gm14479	chrX:10892283-10892601	5.543096667	0.150059667
Zfp418	chr7:7124063-7136271	5.542913333	9.523543333
Wdr5	chr2:27370666-27392055	5.53964	4.88356
Fancm	chr12:66176592-66233045	5.534733333	5.398406667
Scrn1	chr6:54458809-54516376	5.534053333	0.573231
Pcnt	chr10:75813998-75905657	5.532896667	3.9029
Galnt11	chr5:24728710-24771736	5.53101	13.0306
Galk1	chr11:115869670-115874033	5.529824333	12.98371
Zkscan6	chr11:65620745-65642741	5.526866667	5.007246667
Trim27	chr13:21271799-21286592	5.526626667	5.073993333
Gm6907	chr14:59999669-60012349	5.526193333	1.325206667
2210012G02Rik	chr4:106806766-106850971	5.525193333	5.800593333
Extl2	chr3:115710366-115731934	5.524476667	8.94269
Ggct	chr6:54935088-54942861	5.52176	3.419703333
Rg9mtd3	chr4:45310039-45329003	5.52169	15.60769667
Apobec4	chr1:154597680-154604674	5.519193333	1.310753533
4931406H21Rik	chr14:26406289-26410147	5.514586667	2.504975333
Artn	chr4:117598766-117602368	5.512006667	4.22546
Arhgap42	chr9:8994952-9239013	5.510363333	5.50326
Wdr54	chr6:83102703-83106373	5.508733333	9.441893667
Zfp120	chr2:149940142-149962414	5.50803	2.82381
Gtpbp8	chr16:44738991-44746476	5.507853333	16.24532333
Fbxl21	chr13:56623868-56639147	5.5046378	0.751406667
Syce2	chr8:87396009-87411345	5.502540333	26.01907
Slc9a3	chr13:74258962-74303512	5.501423333	0.637243667
Lgr6	chr1:136882929-137001853	5.50089	3.91078
Homer2	chr7:88745366-88851811	5.498413333	24.17033333
Ccdc32	chr2:118843514-118855129	5.498386667	8.585433333
Rbfa	chr18:80389002-80397358	5.498243333	10.13336667
4933407H18Rik	chr5:33721344-33762403	5.497136667	7.392623333
Dzip3	chr16:48924340-48994225	5.49213	2.876576667
Cntf	chr19:12838017-12840122	5.480498827	3.249151
Daglb	chr5:144225360-144265310	5.479763333	6.259596667
Rab40b	chr11:121217434-121249565	5.475703333	15.07364667
Akt3	chr1:178952245-179178898	5.474673333	5.38367
Zfp319	chr8:97850035-97855850	5.47313	3.066237333
Evi5l	chr8:4166566-4193701	5.4722	7.847873333
Cask	chrX:13094207-13423667	5.467536667	12.98843333
Gm14434	chr2:175639522-175655901	5.46724	2.17187
Rce1	chr19:4622550-4625617	5.46677	4.351849
Ccdc48	chr6:87680862-87705905	5.46506	0.652759
Tmem206	chr1:193149843-193176804	5.464693333	8.195683333
1810021B22Rik	chr15:88901627-88906284	5.46404	1.534793333
Bbs10	chr10:110735734-110738792	5.462383333	1.826963333
Bap1	chr14:32064674-32073115	5.461973333	8.213003333
Arap1	chr7:108496582-108561100	5.461823333	8.877456667
Tmco4	chr4:138528819-138615086	5.455753333	2.633854333
Lcmt2	chr2:120963027-120966434	5.454123333	2.057006333
Zfp346	chr13:55206669-55236432	5.45372	2.707686667
Inpp4a	chr1:37356737-37467580	5.45279	3.871326667

Apba3	chr10:80730916-80735992	5.450933333	7.82884
Zfp108	chr7:25039812-25047463	5.449934667	2.6505
Rnf122	chr8:32222317-32241945	5.448943333	17.33952
Cd164l2	chr4:132776723-132780469	5.448376667	40.07000667
Al480653	chr16:30955588-31081518	5.44821	3.40994
Gm14475	chrX:10895450-10895768	5.44583	0.126248667
Rnf157	chr11:116197658-116274346	5.443106667	5.206510667
Fam23a	chr2:14096150-14143620	5.437726667	0.7241175
G630016D24Rik	chr14:52636539-52639462	5.436973333	3.903483333
Vps37b	chr5:124454649-124482269	5.436583333	8.607546667
Plbd2	chr5:120933901-120953632	5.436416667	12.11139333
Dhx37	chr5:125894773-125914418	5.43542	1.679737667
Tfcp2	chr15:100333226-100382378	5.435123333	4.297513333
Gpr64	chrX:156828621-156936002	5.434856667	4.922043333
Yaf2	chr15:93114263-93167366	5.430776667	3.886176333
4930430F08Rik	chr10:100034907-100051893	5.430167	6.153143333
Gpr56	chr8:97501008-97538108	5.429766667	36.13043333
4833418N02Rik	chr17:87674225-87682154	5.42897	5.646136667
Gm5088	chr14:90296030-90299254	5.42849	5.376933333
Usp20	chr2:30837798-30878175	5.428083333	8.08318
Map2k5	chr9:63011576-63225659	5.42784	8.522733333
Fnip2	chr3:79259892-79371601	5.427676667	7.278806667
Clcn6	chr4:147380592-147412876	5.425656667	5.694783333
4933433P14Rik	chr12:106923561-106941267	5.424446667	5.313383333
Echdc3	chr2:6109510-6134040	5.420163333	2.362633333
Pthr2	chr11:86497484-86505959	5.412283333	9.00087
Map3k12	chr15:102328077-102347435	5.410563333	11.66045
Srbd1	chr17:86384004-86544515	5.409796667	4.837943333
Bcar1	chr8:114234374-114267749	5.40793	17.23506667
Pcbp4	chr9:106356168-106366342	5.40395	3.026636667
Zfp954	chr7:7067393-7074187	5.402403333	7.51011
Ccdc136	chr6:29348925-29376995	5.401716667	10.37590667
Zfp433	chr10:81167569-81184721	5.400533333	7.10677
Mettl21a	chr1:64653053-64663742	5.39963	6.969246667
Lxn	chr3:67261920-67267829	5.395954	16.79935
Ptpn21	chr12:99914950-99975615	5.395123333	3.997916667
1700112E06Rik	chr14:22838933-23875310	5.393753333	14.65112
Ttn	chr2:76542040-76820604	5.393103333	0.299658333
Haus4	chr14:55160621-55173198	5.392343333	2.16049
Rfesd	chr13:76138982-76156160	5.391753333	5.370493333
Trp53i11	chr2:93027740-93041914	5.384703333	10.70151667
Lpin1	chr12:16542474-16596576	5.383096667	4.40296
0610010B08Rik	chr2:175737073-175753460	5.381913333	2.182516667
Map3k5	chr10:19654331-19862556	5.381886667	4.581096667
D1Ertd622e	chr1:99540478-99558595	5.379063333	4.500173333
Lin52	chr12:85792457-85872483	5.375746667	2.945863333
Spry2	chr14:106291163-106296036	5.372067667	3.068516667
Mthfd2l	chr5:91360221-91450395	5.371306667	3.264293333
Cstf1	chr2:172196502-172206586	5.369903333	21.04552667
Mre11a	chr9:14589150-14638861	5.36851	4.031756667
Ubtd2	chr11:32355371-32418709	5.36701	7.031123333
Hps4	chr5:112772114-112807444	5.365076667	12.34314667

Zfp212	chr6:47870566-47882636	5.36439	5.619526667
Tspan8	chr10:115254339-115286949	5.36421	2.852026667
2310047M10Rik	chr11:68873276-68875078	5.36181	4.496281667
Clip2	chr5:134965255-135028304	5.359996667	2.021193333
Pgap2	chr7:109371587-109386265	5.35984	16.4546
Eps8	chr6:137425765-137597641	5.359636667	6.60421
Cox10	chr11:63776128-63892974	5.358426667	13.26434333
Ccl27b	chr4:42024167-42029569	5.358206667	0.858906333
Tasp1	chr2:139659215-139892521	5.353256667	4.61534
Tcof1	chr18:60973409-61008618	5.351646667	3.52445
Abhd6	chr14:8835415-8889069	5.35157	6.716853333
Nup93	chr8:96738500-96838966	5.35148	16.866
Dhdh	chr7:52728932-52744166	5.35127	1.583386667
Rft1	chr14:31467560-31504499	5.35055	3.139573333
Pkd1	chr17:24686894-24733459	5.350156667	11.43965667
Zfp628	chr7:4866818-4873605	5.348641333	7.49307
Dom3z	chr17:34973963-34976131	5.347773333	6.38087
Tor1a	chr2:30816080-30823438	5.342986667	5.129623333
1700030A11Rik	chr17:29042209-29043716	5.34282	0.82867
Chst2	chr9:95301344-95307689	5.342786667	4.174133333
Cdkn1c	chr7:150644243-150646955	5.34177	3.042426667
Armcx3	chrX:131291106-131295995	5.334586667	4.786565333
Chad	chr11:94426387-94430441	5.334288333	1.474899333
Man1b1	chr2:25188262-25207733	5.330426667	10.43968
Ppan	chr9:20692618-20696623	5.327336667	6.86994
Pigl	chr11:62271961-62327402	5.325506667	15.52715
Wdr78	chr4:102710669-102786904	5.324136667	2.3873578
Fam55d	chr9:48170123-48208108	5.322733333	4.932613333
Fam84a	chr12:14154403-14158844	5.322613333	11.69890333
Tmem45b	chr9:31233780-31271823	5.321313667	146.337
Mfsd7c	chr12:87087488-87154535	5.320456667	1.171383333
Abhd12b	chr12:71255157-71284193	5.320446667	0.0709598
Zfp566	chr7:30862355-30875529	5.320092667	1.787528667
Ren1	chr1:135247250-135256896	5.31926	0.66760373
Slc39a11	chr11:113106168-113427129	5.31864	3.969146667
Tmem180	chr19:46431369-46449744	5.317283333	7.49586
B3galt2	chr1:145487826-145497067	5.31406	8.167166667
Cd180	chr13:103483637-103496711	5.31355	12.01130667
Slc22a21	chr11:53764325-53793529	5.310596667	2.96302
6720456H20Rik	chr14:49066026-49134834	5.309973333	8.268733333
Ptk7	chr17:46701399-46766453	5.309856667	8.946113333
Hist1h3b	chr13:23844248-23844659	5.308173333	3.84783
Pdzd4	chrX:71038695-71070308	5.302823333	4.774283333
Tfb1m	chr17:3519255-3557713	5.30187	3.86531
Zdhhc8	chr16:18220845-18235229	5.301346667	6.890613333
Fnip1	chr11:54251680-54331743	5.297573333	6.28671
1700094D03Rik	chr3:89866717-89872269	5.29713	5.17302
Rhov	chr2:119094936-119096962	5.295943333	8.33816
F630043A04Rik	chr14:58425397-58445000	5.295803333	1.240741667
Ccrn4l	chr3:51028368-51055576	5.29566	9.70068
Mgat4a	chr1:37496184-37593104	5.295506667	9.71255
Gm3219	chr14:35158240-35158844	5.293824667	5.45713

4921523A10Rik	chr17:53646784-53678776	5.292676667	5.309913333
Lypla2	chr4:135524139-135528509	5.28542	2.335231
Ttc37	chr13:76236181-76325431	5.274496667	3.498533333
Pnpo	chr11:96799129-96805333	5.273336667	5.232827667
Pip4k2b	chr11:97576470-97606018	5.27062	5.966227333
Thap4	chr1:95601967-95651415	5.269333333	6.619583333
Fam199x	chrX:133584132-133617040	5.26919	5.71584
Gm14479	chrX:10898617-10898935	5.264026667	0.161577
Vrk2	chr11:26371401-26493920	5.263576667	6.170066667
Gm14430	chr2:176404641-176421028	5.263556667	2.131763333
Dhcr7	chr7:151009071-151034315	5.26305	17.335033333
Hoxb3	chr11:96184439-96209244	5.261883333	3.007648667
Pdzk1	chr3:96633987-96674849	5.260733333	1.495183033
Gm14308	chr2:176181276-176194747	5.260416667	2.013523333
Aldh1l2	chr10:82950191-82996885	5.259716667	4.92531
5530601H04Rik	chrX:102236192-102265463	5.25806	5.40165
Nfxl1	chr5:72904542-72950884	5.257586667	6.574623333
4930599N23Rik	chr6:39068471-39098311	5.255707333	1.04224672
Fhad1	chr4:141446765-141567552	5.25437	2.84723
Gm19461	chr1:135146428-135166385	5.25334	0.185770733
Dhrs9	chr2:69218518-69241143	5.25034	9.69601
Syk	chr13:52678805-52744161	5.248604	4.542808333
Ing5	chr1:95700541-95718677	5.24762	3.832086667
Slc4a2	chr5:23931049-23946765	5.245343333	6.836013333
1700067K01Rik	chr8:86525604-86528669	5.244864333	1.732589333
Zfp748	chr13:67639589-67654088	5.243403333	6.74505
Il11ra1	chr4:41707315-41716346	5.24299	3.966593333
Acad9	chr3:35964921-35991779	5.242836667	7.803163333
Zfp385b	chr2:77248688-77654873	5.238013333	0
Dgat1	chr15:76332444-76342248	5.23717	6.31422
Olfr901	chr9:38237868-38238804	5.23665	0
Ccl27b	chr4:42664135-42669537	5.236126667	3.161943
A730017L22Rik	chr2:130698276-130732132	5.233116667	4.111737
Frm8	chr19:5850973-5875208	5.231736667	2.959454667
Sepsecs	chr5:53034645-53060940	5.22806	11.10245833
Ccdc157	chr11:4041126-4060296	5.226183333	7.230033333
3110052M02Rik	chr17:21787577-21801933	5.22592	3.549893333
Jmjd7	chr2:119853218-119858340	5.224526667	1.268509667
Golga7b	chr19:42322067-42344838	5.223796667	1.092129
Tmprss2	chr16:97786288-97832802	5.21862	8.986183333
Mib2	chr4:155028580-155043363	5.217306667	2.333779
Dgcr8	chr16:18254057-18289261	5.21589	8.16844
Bbs7	chr3:36472064-36512311	5.215873333	3.82896
Slc37a4	chr9:44206258-44211048	5.215486667	8.219637667
Plxna1	chr6:89266307-89312607	5.215193333	21.219
Polr3gl	chr3:96381796-96398081	5.2139	6.205923333
Eml1	chr12:109648864-109777774	5.212333333	9.717246667
Cand2	chr6:115724574-115755573	5.210496667	14.43843333
8430431K14Rik	chr19:31288032-31290886	5.20616	0.356223333
Lysmd1	chr3:94938009-94943447	5.205426667	5.43027
Ints5	chr19:8967476-8972380	5.20467	5.382927333
Rgs1	chr1:146091798-146096234	5.201418	0.5517

Gm5901	chr7:112523611-112526801	5.201407	5.11E-38
Akap1	chr11:88692105-88725900	5.197693333	4.637663333
Tecpr2	chr12:112127473-112210604	5.19489	8.400843333
Bhlhe22	chr3:17954324-17957514	5.194873	1.531227333
Lamb3	chr1:195128187-195170072	5.19298	5.079003333
Osgin2	chr4:15924267-15941024	5.192013333	6.123763333
Zkscan5	chr5:145965427-145982619	5.190405	5.412983333
Hsd17b7	chr1:171879667-171899336	5.188003333	11.55351
Cpsf1	chr15:76426237-76438021	5.187766667	11.55581333
Coq3	chr4:21806821-21839273	5.184723333	4.060847
5830432E09Rik	chr7:142840139-142843997	5.184688	4.060071
Usp2	chr9:43875103-43903710	5.182803333	12.1464
Dcun1d3	chr7:126996676-127039259	5.182436667	5.819446667
Zfp781	chr10:81364655-81393225	5.177003333	3.725713333
Foxp4	chr17:48004081-48061581	5.175923333	15.8489
Mapk15	chr15:75824198-75829583	5.173396667	2.582343333
Arl9	chr5:77433079-77438502	5.172383333	6.642036
Rdh11	chr12:80276537-80292806	5.17085	11.48967333
Hnmt	chr2:23858431-23904899	5.164766667	11.62102667
Dapk2	chr9:66006032-66120049	5.161996667	2.405773333
Fam73a	chr3:151936423-152003371	5.161993333	9.156166667
Ciao1	chr2:127066673-127073552	5.15922	6.138536667
Pde1c	chr6:56019797-56319628	5.154796667	2.450713333
Ints1	chr5:140227235-140251632	5.15434	4.632923333
Gm5577	chr6:87931676-87934174	5.15068	11.60567667
Atrnl1	chr19:57685523-58207830	5.149793333	9.00349
Grtp1	chr8:13176868-13200624	5.149446	9.56305
Gm14137	chr2:119000244-119003311	5.145868333	6.294176667
Nol3	chr8:107800346-107805839	5.141866667	10.24606333
Fbxo16	chr14:65885537-65940339	5.141157	6.544983533
Gstm5	chr3:107698771-107701603	5.138733352	10.67283333
Anks4b	chr7:127317371-127327230	5.137896667	1.05421
Gpsm3	chr17:34726750-34728699	5.13725	2.066583333
Cacnb4	chr2:52283839-52532101	5.137193333	4.40773
Clp1	chr2:84563278-84567425	5.13694	3.071265667
E030030I06Rik	chr10:21832855-21869076	5.135963333	1.463645
Nufip1	chr14:76510697-76537186	5.13446	5.469486667
Tuft1	chr3:94416680-94462728	5.132303333	10.35566
1700012D14Rik	chr7:118261186-118266189	5.12966	0.268259667
Gm14308	chr2:175964487-175977956	5.128326667	1.982776667
Mlph	chr1:92811676-92847719	5.127149333	3.76227
Gm14430	chr2:175244891-175261278	5.12591	2.078486667
Aco1	chr4:40090297-40146042	5.12581	3.90791
Ifit3	chr19:34658018-34663472	5.125616667	0.131698667
Fastkd2	chr1:63777198-63799959	5.122143333	6.167536667
4933403F05Rik	chr18:68419838-68459987	5.120733333	5.091203333
Tnfrsf11b	chr15:54082173-54110039	5.12066	1.032484333
Rab27b	chr18:70138784-70301244	5.120153333	4.210366667
Cdk7	chr13:101466979-101500897	5.118656667	5.266256667
Mfsd10	chr5:34976295-34979763	5.116819	5.291894333
Pbx3	chr2:34027428-34227556	5.116693333	6.671549333
5730494M16Rik	chr18:25285723-25327378	5.11642	2.51559

Pdcd7	chr9:65193874-65207450	5.115816667	5.347673333
Gm9897	chr5:4192366-4197651	5.113245667	3.58665
Klf12	chr14:100269861-100549015	5.10791	8.377896667
Coq6	chr12:85702917-85714746	5.105529	6.288646667
Sdk1	chr5:141717487-142689745	5.099763333	8.52751
Rwdd2a	chr9:86465594-86468506	5.098664	10.29855667
5830415F09Rik	chr4:46389846-46402295	5.094173433	3.889073333
Rxra	chr2:27532720-27618839	5.09345	15.31906667
Fam167a	chr14:64055230-64084339	5.09273	9.87283
Eno2	chr6:124710072-124719527	5.086293333	2.748349667
Gipc1	chr8:86176576-86188688	5.08624	12.65356
C1qb	chr4:136436060-136442092	5.085203333	0
3110057O12Rik	chr3:40698198-40740229	5.084683333	3.71026
Mina	chr16:59471600-59492277	5.08367	11.74229
Bid	chr6:120843136-120866838	5.081733333	5.914175
Parp10	chr15:76063424-76073870	5.079156667	7.42822
Nr3c2	chr8:79426406-79767538	5.078823333	1.692215
Cav1	chr6:17256334-17291328	5.077855333	3.681625
Lzts2	chr19:45089665-45101594	5.077436667	9.722566667
Lrp3	chr7:35985952-36000364	5.077063333	5.930882
Mettl22	chr16:8470905-8490290	5.076646667	2.888466
Exosc6	chr8:113580238-113581499	5.075746667	4.460676667
Hao2	chr3:98678441-98697153	5.075566667	0
Sec22c	chr9:121589162-121614147	5.074356667	2.658727
Cpne1	chr2:155897576-155937701	5.072306667	4.676917
Sry	chrY:1918380-1919568	5.071833333	1.164500333
2310022B05Rik	chr8:127159655-127187269	5.070483333	10.44003
Ankrd42	chr7:99732692-99785652	5.067796667	3.789655
BC037032	chr15:3970110-3977406	5.067493333	0.407992667
Nsun4	chr4:115704374-115726481	5.06698	2.541523333
Ung	chr5:114580443-114589330	5.066833333	19.37184
Ttc13	chr8:127195226-127245875	5.066393333	4.53034
Fam125b	chr2:33585475-33743466	5.066356667	9.734196667
Dcaf15	chr8:86620970-86628661	5.06478	3.709413333
Catsper2	chr2:121220090-121239528	5.064363333	2.8558
Gpr171	chr3:58900369-58905743	5.062936667	7.28571
Tmem19	chr10:114777795-114799318	5.062806667	8.844116667
Ccdc160	chrX:50144376-50152645	5.061743333	2.1223
Mmp21	chr7:140865952-140871744	5.0616	0.102063333
Sostdc1	chr12:37040755-37045039	5.061421333	4.818123333
Tacc1	chr8:26265023-26311921	5.058056667	7.072113333
A4galt	chr15:83057151-83082204	5.057646667	2.985127
Ankrd27	chr7:36371265-36424256	5.048566667	7.981473333
Slc9a3r2	chr17:24776226-24787250	5.045356667	11.21478
Tbx2	chr11:85646116-85655450	5.045316667	6.473916667
Nup35	chr2:80478968-80500228	5.04505	2.66252
Dhcr24	chr4:106233642-106261718	5.04438	45.58933333
Ncln	chr10:80949203-80959108	5.044183333	10.63315667
Gm7854	chr5:43542924-43626593	5.04227	0.628563333
Rnf217	chr10:31221692-31329531	5.040883333	7.00004
Spry1	chr3:37538871-37543521	5.03948	11.32731
Slc5a5	chr8:73406787-73416656	5.036607333	1.78035

Aloxe3	chr11:68939878-68962617	5.03564	10.11402333
Gm4532	chr7:134375931-134376644	5.034633333	0.256584667
Fn3k	chr11:121296266-121311804	5.034363333	0.872014667
Magi2	chr5:18732863-20210610	5.02988	1.82599
Rrm1	chr7:109590208-109618285	5.02876	7.984546667
Fam187b	chr7:31758822-31774744	5.028196667	2.744716667
Adnp2	chr18:80323873-80348221	5.02317	19.14303667
Agbl3	chr6:34730431-34807932	5.022676667	2.090704667
Hist1h2ai	chr13:21808290-21808683	5.02237	3.221123333
Blvra	chr2:126896392-126922820	5.022114667	7.392996667
Zfp667	chr7:6238181-6259485	5.02146	6.202666667
2310009B15Rik	chr1:140748555-140753431	5.019301	31.08421
Tmem170b	chr13:41701584-41736726	5.01859	10.3625
Bzrap1	chr11:87574042-87599430	5.01715	1.188903667
Csrnp2	chr15:100310000-100325670	5.015426667	8.92882
Hus1	chr11:8893144-8911140	5.009543333	5.91883
Pramef8	chr4:143002328-143010990	5.00768	5.602376667
Il6ra	chr3:89673245-89717084	5.007006667	31.3097
Utp20	chr10:88209351-88289559	5.005253333	4.054236667
Exoc5	chr14:49631818-49686342	5.00436	13.94803333
2310057M21Rik	chr7:138486231-138506212	5.0043	10.10089
Rhpn2	chr7:36119255-36177306	5.001613333	6.01937
Trmt12	chr15:58704203-58708336	4.999966667	3.0284
B3galtl	chr5:150480831-150565174	4.998063333	3.443123333
Crtc3	chr7:87731517-87833763	4.99761	7.02736
Cdk5rap1	chr2:154161121-154198455	4.997064667	3.701196667
Zmat1	chrX:131505911-131543748	4.99344	1.615492667
Smpd3	chr8:108776447-108861888	4.992403333	1.332673333
Dtx2	chr5:136470669-136508751	4.992396667	3.923886667
Arid3a	chr10:79389816-79417757	4.989803333	4.962386667
P4ha1	chr10:58786043-58836052	4.988556667	6.7677231
Alox12	chr11:70054956-70068843	4.988353333	9.179336667
Cdkn2aipnl	chr11:51781132-51790838	4.98796	17.16691
Il1rn	chr2:24192379-24207011	4.985768667	17.66396667
Nop16	chr13:54685551-54691435	4.985043333	7.581122667
Zfp935	chr13:62554375-62568172	4.982606667	3.338406667
OTTMUSG000000166	chr2:176493061-176507478	4.98205	1.445493
Zfp930	chr8:71732944-71754438	4.98185	2.635043333
2510012J08Rik	chr10:80783847-80788996	4.98073	5.466153333
Ciapi1	chr8:97343718-97362240	4.97927	1.586643
Ccdc116	chr16:17139156-17144516	4.976956667	1.813063333
Dcps	chr9:34931998-34983572	4.97629	8.455
E230025N22Rik	chr18:36844576-36855579	4.976226667	0.037253
8430408G22Rik	chr6:116600701-116602865	4.97363	24.46856667
Wars2	chr3:98945012-99024126	4.97197	2.827404033
Otop1	chr5:38668642-38695456	4.968026667	2.412592
Ptar1	chr19:23761889-23795619	4.967616667	12.30632333
Rnu12	chr15:82980074-82980224	4.960866667	33.98463333
Zfp781	chr10:81205565-81233887	4.96029	3.594273333
Wdr4	chr17:31631266-31649432	4.96008	3.352016667
Etohi1	chr2:177757988-177770564	4.959613333	5.963416667
Arntl	chr7:120350978-120457640	4.959026667	7.03098

Lrig3	chr10:125403274-125452415	4.957776667	9.025116667
Tubgcp5	chr7:63049517-63086817	4.955396667	8.51785
BC006779	chr2:180962319-180976732	4.955263333	3.688920667
A930024E05Rik	chr5:123439362-123448350	4.954073	1.34131
1600016N20Rik	chr7:148395941-148399979	4.952936667	4.191816667
Ube2l6	chr2:84638984-84650160	4.952142667	4.814714333
Sox12	chr2:152219347-152223782	4.951916667	1.230055333
1700007L15Rik	chr16:33379939-33380822	4.951316	0.84746
Pkmyt1	chr17:23863302-23873696	4.951096667	3.712337333
B230378P21Rik	chr6:32461140-32465576	4.949467	2.2262285
Wdr65	chr4:118227300-118293010	4.948663333	1.611438333
Pcdhb13	chr18:37602170-37605863	4.947348	5.34021
Gpt	chr15:76527193-76530105	4.94481	2.579965333
1810043G02Rik	chr10:77441394-77448183	4.94207	5.953773333
A630066F11Rik	chr10:7383168-7384421	4.940406333	2.339637667
Pitx2	chr3:128902835-128922508	4.94013	29.61073333
Myd88	chr9:119245105-119249158	4.939453333	2.854432333
Poc5	chr13:97158248-97185542	4.938183333	5.284353333
Polr3f	chr2:144353480-144367515	4.937756667	6.48571
Zfp943	chr17:22099525-22131333	4.936866667	3.359296667
Slc16a11	chr11:70027411-70029916	4.936397333	7.21555
Zfp446	chr7:13563196-13571065	4.936253333	2.164385667
Rab11fip2	chr19:59978786-60019557	4.934396667	8.17456
Rhbdd3	chr11:4999440-5006094	4.93265	6.46419
Hmga2-ps1	chr1:178764754-178766264	4.9318399	0.125117567
Bnipl	chr3:95045214-95055115	4.928286667	6.913113333
Dnmt3b	chr2:153475189-153513466	4.925406	2.214313333
Zbtb22	chr17:34053120-34056270	4.920103333	6.208043333
Serinc5	chr13:93381092-93481901	4.917816667	13.04471333
Ptrf	chr11:100818050-100831931	4.917473333	7.630603333
Slc15a4	chr5:128076035-128097762	4.91451	6.837036667
1110038D17Rik	chr10:74969558-74980067	4.9077	3.58602
Efcab7	chr4:99496190-99585388	4.903626667	9.395466667
Sema4c	chr1:36605486-36615226	4.901273333	9.77399
lqsec1	chr6:90609591-90760117	4.900296667	4.29907
A830010M20Rik	chr5:107926763-107941575	4.89894	1.911123333
1700052K11Rik	chr11:105040334-105042747	4.897196667	0.904200667
Fam109b	chr15:82171608-82176140	4.895524333	0.4622344
5730409E04Rik	chr4:126287097-126291615	4.892406667	1.322063333
Prpf31	chr7:3581586-3594086	4.891973333	10.70429667
Tnfrsf21	chr17:43153503-43226137	4.891883333	19.9452
1110031I02Rik	chr11:121038906-121065962	4.89025	9.2563
BC037034	chr5:138700885-138705280	4.889746667	2.367542
Fry	chr5:151062504-151300328	4.888053333	7.222166667
Polk	chr13:97250643-97312440	4.886953333	9.577383333
Pdpr	chr8:113618644-113659044	4.882463333	8.08143
Tk2	chr8:106750590-106772458	4.881606667	4.52175
4933432B09Rik	chr15:79440005-79489386	4.880953333	2.627876667
Hist1h2ah	chr13:22127034-22127421	4.880006667	3.100773333
Mesdc1	chr7:91029004-91032851	4.87829	4.298743333
Sipa1	chr19:5651184-5663707	4.876499667	2.376987
Mul1	chr4:137990586-137998180	4.87624	3.453253333

Nos1ap	chr1:172247626-172519980	4.87573	5.984576667
Cep76	chr18:67777050-67800990	4.874556667	1.899651
Zmynd17	chr14:21302085-21316123	4.872616333	2.826824667
A930013F10Rik	chr8:23744856-23747281	4.870056667	4.87317
C130036L24Rik	chr1:88256148-88264539	4.869986667	1.159485667
Tha1	chr11:117729262-117734840	4.86913	2.359961467
Dbdd2	chr2:164311639-164318823	4.86738	4.701433333
Cyth3	chr5:144383315-144471117	4.865133333	9.8054
B3galnt2	chr13:14046940-14091335	4.864186667	6.663186667
1600027N09Rik	chr2:180316008-180320339	4.861663333	1.848696667
Alg9	chr9:50583329-50651744	4.860426667	6.310903333
Agpat5	chr8:18846278-18884413	4.85723	9.221953333
Ccdc61	chr7:19476232-19495753	4.853786667	4.087364
Etnk2	chr1:135260148-135276895	4.85325	2.155166667
Bcorl1	chrX:45694534-45759905	4.85246	6.44953
Per3	chr4:150377763-150418731	4.849193333	6.513116667
Mtrr	chr13:68699656-68720998	4.84144	3.461456667
Psmb8	chr17:34335139-34338399	4.840924333	0.420266667
Ccdc111	chr8:47660947-47702554	4.837343333	2.637963333
Sema4d	chr13:51796616-51889013	4.831586667	13.51128
Nat10	chr2:103561415-103601407	4.8299	9.36706
Ogfr	chr2:180324111-180330542	4.827436667	5.036373333
Tns4	chr11:98926991-98950620	4.825926667	28.5315
6030429G01Rik	chr7:4474558-4484044	4.82529	18.5658
Sigirr	chr7:148277073-148286445	4.824076667	4.254686
Sorbs2	chr8:46593141-46913260	4.82104	10.87348
Gm7092	chr7:26399639-26400911	4.820022333	10.32966
Sdr9c7	chr10:127335590-127348815	4.817457667	9.081248
1190002H23Rik	chr14:79688556-79701442	4.816356667	14.15259
Dis3	chr14:99475852-99498989	4.8131	4.023253333
Tyrobp	chr7:31198806-31202598	4.811586667	0
Mapk11	chr15:88972913-88980036	4.810333333	2.814283333
Rab6b	chr9:103014403-103087600	4.809012667	2.175224833
Isoc2b	chr7:4796561-4817781	4.806676667	5.431174667
Tnfrsf13b	chr11:60954336-60961144	4.805602	0.249286667
Srp54a	chr12:56256326-56365681	4.8016	4.550506667
Hist1h3g	chr13:23627286-23627778	4.801446667	1.27107
Slc4a7	chr14:15535538-15632457	4.795873333	14.02978333
Rcn1	chr2:105226104-105239476	4.795133333	2.155661
Cwf19l1	chr19:44183126-44210366	4.793453333	8.845632333
St3gal1	chr15:66934436-67008444	4.792996667	17.88903333
Atg16l2	chr7:108438129-108450602	4.791861333	2.031426667
Dnajc16	chr4:141317912-141346559	4.791446667	3.76551
Eci3	chr13:35038482-35055678	4.787806667	5.3502874
Dennd5a	chr7:117037294-117103936	4.781673333	4.530123333
Cd200r2	chr16:44867209-44915953	4.77831	3.719119967
Pde12	chr14:27483602-27489332	4.777346667	5.171923333
Slc39a8	chr3:135488454-135551536	4.776922	111.4998667
Nit1	chr1:173272367-173275776	4.77631	20.05563333
Mpp1	chrX:72355071-72376288	4.775216667	7.654303333
Med29	chr7:29170265-29177709	4.7724	2.22767
D930014E17Rik	chr7:116847250-116855695	4.772068667	1.589166667

4932415G12Rik	chr10:94136237-94151358	4.77184	9.455136667
S100b	chr10:75716580-75724064	4.770373333	0.615108667
Chtf18	chr17:25855974-25864360	4.768606667	7.590483333
Tox	chr4:6614532-6917870	4.76748	4.44304
Tyw3	chr3:154239483-154260062	4.766985667	2.261287667
OTTMUSG000000166	chr2:176082748-176097171	4.761476667	1.400213667
Slc9a4	chr1:40637071-40687576	4.760573333	27.5742
D230037D09Rik	chr12:103981969-103983607	4.7591	11.59631
Ankrd54	chr15:78883523-78893289	4.75859	5.13863
Tomm40l	chr1:173147933-173152645	4.753887333	6.745286667
Clip3	chr7:31076771-31093386	4.753136667	18.23066667
Vgll4	chr6:114812107-114871770	4.752818667	19.35063333
Rab71l	chr1:133763853-133769464	4.7481	4.662982667
Adck2	chr6:39523874-39538768	4.74669	4.3773
Efcab9	chr11:32422732-32427574	4.746272667	1.14795
Slc44a5	chr3:153636399-153934684	4.745523333	0.512046667
AI987944	chr7:48628299-48648749	4.744846667	2.350106667
Zfp513	chr5:31501353-31504676	4.740256667	4.819876667
Zfp563	chr17:33226311-33247649	4.738336667	6.603193333
Ankrd32	chr13:77182348-77274729	4.734013333	3.060696667
Lmbr1l	chr15:98734351-98748529	4.73273	10.71151333
Abcd1	chrX:70961935-70983626	4.732496667	11.97216333
Edc3	chr9:57556375-57597969	4.728356667	6.16603
Hemk1	chr9:107229412-107240681	4.727466667	3.856486667
Dmwd	chr7:19661548-19668124	4.727350667	7.91813
Tor2a	chr2:32612753-32617764	4.727313333	16.67229667
Rgs7	chr1:176989206-177422676	4.725626667	12.29437
Slc9a2	chr1:40738556-40825730	4.72519	6.667166667
Crybg3	chr16:59490600-59555578	4.723793333	8.694556667
Zfp944	chr17:22474955-22498367	4.72332	2.92079
Cdk2	chr10:128134994-128142107	4.72303	2.481732333
Rspry1	chr8:97125840-97184176	4.72136	5.64602
Fam122b	chrX:50596591-50622982	4.721046667	5.167176667
Hist1h2ap	chr13:21902335-21902728	4.719946667	1.590870088
Tab1	chr15:79963583-79992132	4.716423333	5.548246667
Gins2	chr8:123105165-123112975	4.71563	1.189910667
Hist1h2bb	chr13:23838602-23839070	4.71091	5.233033333
Zswim5	chr4:116550006-116661710	4.710053333	6.577126667
Malt1	chr18:65590650-65638446	4.709853333	6.975306667
Bcl11a	chr11:23978055-24073558	4.70816	7.20458
Dynlt1f	chr17:6851323-6860656	4.70751	8.476296667
Casp4	chr9:5308859-5336791	4.706976667	2.518807667
Uqcc	chr2:155672621-155756046	4.706076667	8.72419
Gm9833	chr3:10088276-10092562	4.704307	12.51734
Clec11a	chr7:51559135-51562329	4.702556667	0.15749
Gm889	chr12:40902972-40925902	4.701826667	0.57727
Fbxo30	chr10:11001127-11017767	4.70058	10.11180667
Igsf3	chr3:101181047-101266983	4.69823	11.5916
Tpcn1	chr5:120984165-121038622	4.689326667	6.506973333
Gpm6b	chrX:162676874-162826965	4.688676667	2.13238
Tysnd1	chr10:61158261-61165521	4.68746	3.71447
Rnf135	chr11:79997373-80013255	4.685226667	4.872306667

Dennd4b	chr3:90070455-90084587	4.682826667	2.231043333
Fyn	chr10:39089604-39285180	4.67908	6.432793333
Pkd2l2	chr18:34569076-34602442	4.67142	1.280394333
Ccdc141	chr2:76847962-77008692	4.6712	4.638408333
Arl5b	chr2:14976988-15000818	4.670086667	7.548183333
Mras	chr9:99285838-99337131	4.667076667	3.64736
Pck2	chr14:56159102-56168854	4.666146667	3.089
Plekhm3	chr1:64835694-65003398	4.665543333	6.174643333
Lsm1	chr8:26896062-26914447	4.662333333	2.68977
1110006O24Rik	chr5:116081057-116081825	4.661446667	1.035029
Tab3	chrX:82819360-82879808	4.661263333	6.628243333
Dynlt1e	chr17:6806387-6812617	4.661163333	5.748163333
Prss27	chr17:24175209-24182916	4.6609	2.958933333
Nme6	chr9:109735307-109745475	4.660853333	1.846053333
Noc4l	chr5:111077437-111082401	4.658276667	16.67123667
Tmem88	chr11:69210017-69211736	4.656576667	4.69257
Il1f9	chr2:24041995-24049087	4.654093333	6.844393567
Etaa1	chr11:17838751-17853878	4.650256667	4.728696667
Irx2	chr13:72766425-72771642	4.648166667	3.500623333
Mri1	chr8:86774474-86781223	4.6465	5.76962
Rassf9	chr10:101974855-102009194	4.645093333	4.789963333
C330018D20Rik	chr18:57115484-57135033	4.641663333	5.844139667
Nceh1	chr3:27081925-27143833	4.640443333	10.01058
Tpd52l1	chr10:31052185-31165727	4.639672	2.126219533
Tada2a	chr11:83892421-83943070	4.63906	12.67204667
Fndc3b	chr3:27315083-27609361	4.638906667	9.917633333
Stk39	chr2:68048503-68310038	4.63843	10.74771
Phyhd1	chr2:30122048-30137669	4.63709	15.7086
4930473A06Rik	chr4:83171448-83510574	4.63402	7.95789
Dact1	chr12:72410870-72421094	4.63391	11.11796
F730043M19Rik	chr12:33796575-33832451	4.630806	0.4020703
Nmb	chr7:88047112-88049957	4.62914	1.770854
Seps2	chr7:134415394-134417573	4.628786667	7.4865
Plag1	chr4:3828304-3865552	4.625846667	5.821703333
Pigw	chr11:84689814-84693787	4.62382	1.814631767
Golm1	chr13:59736356-59777145	4.623703333	10.57337667
Gdpd5	chr7:106530058-106609494	4.623053333	5.044103333
lspd	chr12:37108105-37416031	4.622743333	2.093943333
Gm12504	chr4:44134764-44136995	4.619313333	3.966108333
Chst15	chr7:139427937-139508838	4.618553333	32.41846667
Oxsm	chr14:17071172-17082322	4.61488	3.9685
Gfer	chr17:24830135-24833101	4.61309	11.81595333
Mtbp	chr15:55388962-55457978	4.612286667	3.294283333
Slc27a4	chr2:29658199-29673042	4.611403333	9.381046667
Lifr	chr15:7079571-7147489	4.61027	1.581142667
Sema3b	chr9:107500445-107511572	4.610216667	3.53662
Tacr2	chr10:61715185-61728738	4.608883667	0.603423733
1700110K17Rik	chr9:40141056-40150922	4.60676	1.340358333
Slc25a29	chr12:110064087-110074086	4.60326	8.120156667
Ltb4r1	chr14:56384798-56387329	4.600014333	3.90128
Aven	chr2:112333120-112471410	4.599703333	1.883359333
Scgb3a1	chr11:49477111-49478620	4.59936	18.96043

Gxylt2	chr6:100654727-100755075	4.598893333	1.434623333
Efna1	chr3:89075651-89084873	4.597390333	5.941666667
Shisa2	chr14:60244117-60250497	4.597254333	1.721807
Taf10	chr7:112891407-112892852	4.592759333	7.40597
Cd3eap	chr7:19941357-19944832	4.59059	3.872226667
Megf11	chr9:64233432-64557012	4.590586667	1.951062667
Ttc21b	chr2:66022385-66094674	4.589663333	6.259916
Acaca	chr11:84008939-84215153	4.587233333	4.192143333
Bach1	chr16:87699198-87733591	4.58444	3.115513333
Zfp568	chr7:30768973-30813301	4.584086667	5.478696667
Osbp15	chr7:150874666-150927868	4.58312	8.905176667
Sult6b1	chr17:79283277-79306332	4.583043333	0.203185
Cnksr2	chrX:154259504-154481042	4.583013333	7.6415
Spire1	chr18:67647862-67712375	4.581173333	5.306722
Cuedc1	chr11:87912647-88007642	4.581026667	5.537276667
Mgst1	chr6:138089057-138105273	4.580382667	9.812
Trub2	chr2:29631630-29643191	4.577793333	9.631393333
Bag4	chr8:26875010-26895681	4.577756667	9.174446667
Dgkd	chr1:89749861-89841064	4.577576667	13.63315667
Hist1h2bp	chr13:21879356-21881082	4.57619	6.249643333
Hilpda	chr6:29222487-29225449	4.576186667	4.855476667
Fzd5	chr1:64777131-64784324	4.575413333	4.364693333
Gm5801	chr14:56629128-56630317	4.574456667	12.62505667
Fastkd1	chr2:69524880-69550663	4.568543333	1.660260667
Ica1l	chr1:60045911-60099931	4.566786667	10.97542
Camk2g	chr14:21554096-21613310	4.565873333	11.68479667
Gm14483	chrX:10876382-10876883	4.564783333	0.329232333
Haus6	chr4:86227188-86257926	4.564506667	5.546786667
Eif2c4	chr4:126166786-126210702	4.563606667	6.313583333
Kdm4b	chr17:56465472-56542296	4.56209	4.75495
Mbp	chr18:82644514-82755029	4.56092	9.676206667
Atrip	chr9:108962260-108976638	4.560526667	5.783856667
Etv3	chr3:87329499-87344078	4.56016	10.02429333
Wbscr16	chr5:134623927-134652637	4.559716667	1.972543333
Sbk1	chr7:133416132-133438513	4.558126667	11.76422667
Xpnp3	chr15:81230617-81285318	4.557613333	9.86936
Zfyve26	chr12:80333333-80397269	4.55647	3.986923333
Gm13157	chr4:147128082-147183897	4.555536667	2.151636667
Supv3l1	chr10:61892125-61912441	4.554116667	5.868305
Slc25a34	chr4:141174739-141179749	4.553903333	1.948569667
Mki67	chr7:142881470-142908062	4.553723333	14.86579333
Mpzl3	chr9:44863270-44882971	4.5533958	7.234559333
Grasp	chr15:101054637-101063187	4.545463333	15.22279333
Gm2a	chr11:54911486-54926530	4.543446667	12.66350333
1110034G24Rik	chr2:132516018-132576791	4.542283333	1.723396667
1810008A18Rik	chr10:76949399-76978558	4.53926	2.884421333
Zfp93	chr7:25055436-25062813	4.538963333	4.197853333
Atp4a	chr7:31497250-31510553	4.53861	1.686034667
Sema6a	chr18:47404907-47528522	4.537236667	3.43963
Ube2o	chr11:116399066-116442761	4.532186667	4.362263333
Mettl15	chr2:108932456-109118447	4.531966667	5.8356
Scly	chr1:93194914-93217657	4.530333333	5.08974

2310046O06Rik	chr9:57385334-57390994	4.528766667	3.24623
Dok3	chr13:55624595-55629899	4.528053333	5.959198333
Dynlt1e	chr17:6853656-6860656	4.52709	5.08473
Slc10a3	chrX:71614557-71618688	4.52468	5.97002
Gpc1	chr1:94728262-94756773	4.52404	10.53245667
Gnpda1	chr18:38487190-38498647	4.522906667	6.740505667
Helq	chr5:101191166-101227619	4.520673333	10.91203
Zcchc8	chr5:124148310-124171053	4.520103333	8.785933333
Dennd5b	chr6:148936590-149050202	4.518796667	6.40852
Sema7a	chr9:57787941-57810672	4.517643333	35.8652
Gpr61	chr3:107951238-107957800	4.516768333	0.433858567
Pcdhgc4	chr18:37974732-38001526	4.516333333	0.583440467
Btbd19	chr4:116791822-116798330	4.515147667	8.120266667
Dpy19l1	chr9:24216224-24307584	4.514996667	6.210296667
Prrg4	chr2:104670897-104690007	4.51254	7.795136667
Gm6644	chr6:34253933-34267443	4.510666667	9.213293333
Nudt5	chr2:5766079-5789782	4.510533333	2.762286667
1110020G09Rik	chr15:9001008-9040244	4.50384	3.383283333
Rps6ka5	chr12:101787987-101963238	4.503243333	4.22146
Pank4	chr4:154338241-154355047	4.501533333	10.42510667
Gtf2h3	chr5:125029156-125047689	4.500483333	4.36492
Arl10	chr13:54676373-54682489	4.499383333	2.236233333
Epas1	chr17:87153203-87232750	4.498176667	21.36880267
Tmem98	chr11:80623916-80635535	4.497853333	5.21253
Cdk5r2	chr1:74901602-74904306	4.497672667	5.279338
Gorab	chr1:165315039-165333772	4.49391	3.910594767
Zc3h3	chr15:75584876-75672338	4.49164	6.00058
Zfp955a	chr17:33376451-33392090	4.490623333	4.2747
Alms1	chr6:85537524-85652745	4.488273333	9.036856667
Acaa1b	chr9:119057160-119066211	4.487983333	4.11048
Rslcan18	chr13:67197548-67214964	4.487573333	8.350973333
Park2	chr17:11033249-12256226	4.486176667	6.43137
Spg20	chr3:54916029-54941254	4.48471	3.326178333
Fam161b	chr12:85686266-85702771	4.483026667	2.077230667
Qrsl1	chr10:43593995-43621542	4.481	4.93756
Dnajc27	chr12:4082573-4110612	4.4809	0.724338667
AA960436	chr8:97856183-97871413	4.48023	7.812736667
Wrb	chr16:96367025-96379459	4.47917	1.326367333
Bmp2k	chr5:97426707-97520067	4.478223333	8.34932
Inpp4b	chr8:84239098-84646460	4.476723333	0.1570501
Zxda	chrX:92036623-92043628	4.47481	4.18884
Tmsb15b1	chrX:133508560-133511413	4.474606667	0.929039901
Celf4	chr18:25636120-25912484	4.474353333	6.70582
Abcd4	chr12:85943480-85958416	4.472313333	3.482393333
Dgke	chr11:88898895-88922062	4.47224	2.748185867
Maged2	chrX:147240963-147248882	4.47205	14.20282667
Apbb1	chr7:112706978-112730167	4.471503333	9.2394
Gm239	chr10:116213600-116333935	4.470696667	3.718323333
BC002230	chr12:101363661-101397863	4.468066667	1.7808
Myc	chr15:61816895-61821916	4.467916667	14.88745333
Rhbdd2	chr5:136108523-136122246	4.467496667	3.060623333
Itfg2	chr6:128359461-128374928	4.46631	4.39762

Pddc1	chr7:148594082-148600024	4.463309667	2.792018
Snap25	chr2:136539185-136608164	4.46283	16.57187667
Plat	chr8:23868215-23893320	4.462703333	9.819953333
Gm15408	chr5:149818537-149824352	4.45906	0.254518667
Proca1	chr11:78006893-78019265	4.454032633	7.842826667
Tes	chr6:17015148-17055825	4.453113333	13.18631333
Serhl	chr15:82930634-82947101	4.452735	4.593666667
Zfp668	chr7:135008872-135020337	4.451873333	2.36894
Pus1	chr5:111202685-111209634	4.449023333	11.28111333
Gria2	chr3:80488857-80606713	4.448377	0.569651667
4933403G14Rik	chr8:128193717-128197265	4.441536667	5.798713333
Wnt2b	chr3:104747722-104764627	4.43512	2.650876667
Krt42	chr11:100124195-100131185	4.432713333	4.800417667
Snx30	chr4:59818521-59917612	4.429496667	1.376978
Dscam	chr16:96813686-97392342	4.427173333	0.124958467
Rorc	chr3:94176747-94202161	4.42696	8.75067
Mvd	chr8:124957495-124967322	4.422373333	10.12589333
3632451O06Rik	chr14:50301693-50403042	4.42202	10.25144333
Tfam	chr10:70688224-70700792	4.419653333	7.224916667
Tmem190	chr7:4734541-4735942	4.417566667	0.074940667
Lag3	chr6:124854376-124861723	4.417156667	6.460013333
Tyw1	chr5:130731488-130817437	4.417103333	1.769856
Mphosph9	chr5:124700967-124778460	4.41512	7.413216667
Zfp433	chr10:81326678-81343831	4.412553333	10.92967333
Zfp385a	chr15:103144325-103170517	4.409872	8.468203333
Arhgap23	chr11:97311473-97363714	4.40767	6.87656
Nudt1	chr5:140807875-140814089	4.406583333	6.79162
Ccdc148	chr2:58674108-58998684	4.406246667	0.986987333
B230206F22Rik	chrX:100756248-100819093	4.40347	12.21537
Mrps34	chr17:25032064-25033218	4.403436667	3.059473333
Tmprss11bnl	chr5:87088546-87105323	4.400656667	5.760796667
Bcap29	chr12:32280218-32319523	4.399483333	15.10120667
Tubgcp6	chr15:88929527-88953580	4.394976667	4.748053333
Dlec1	chr9:119011595-119056812	4.39485	1.3103296
Lrrc4c	chr2:97307830-97471821	4.392513333	2.107693333
3200001D21Rik	chr12:89603757-89615767	4.392299667	1.092400233
E2f3	chr13:29998443-30077932	4.391196667	2.26457
Smurf1	chr5:145637363-145726699	4.389713333	8.970816667
Zfp282	chr6:47827553-47858483	4.3893	3.257519333
Tnk2	chr16:32644728-32683579	4.38861	3.84179
Galnt6	chr15:100520345-100559807	4.38842	0.633163333
1110002B05Rik	chr12:55746360-55757559	4.38725	10.66987667
Trim32	chr4:65266019-65277274	4.385713333	14.13243333
Ndr4	chr8:98226936-98239019	4.38557	8.892463333
Prkaa2	chr4:104702254-104782503	4.383113	3.06874
Psm19	chr5:123678198-123700134	4.381903333	5.116973333
Gm3336	chr8:73242441-73246534	4.381496667	1.896696667
Zfp709	chr8:74405966-74416464	4.380516667	3.752123333
Mthfd1	chr12:77356218-77420807	4.380393333	2.243958333
Cadps	chr14:13205076-13655593	4.378863333	24.77243333
F630111L10Rik	chr3:58950217-58957550	4.376916667	3.063037
Kremen1	chr11:5091555-5161613	4.374013333	6.152483333

Ammecr1	chrX:139288016-139401271	4.373533333	8.303376667
Gm13034	chr4:146034924-146036119	4.373503333	6.820226667
Slc25a22	chr7:148615647-148623773	4.371043333	8.677623333
Vpreb2	chr16:17980657-17981173	4.370123333	0
Yod1	chr1:132613903-132618634	4.36968	10.85990333
Lmcd1	chr6:112223751-112280417	4.367317667	1.715875967
4930520004Rik	chr9:114277441-114286356	4.363603333	0.9423111
Rpia	chr6:70715713-70742169	4.36251	6.54035
Frmd4b	chr6:97236860-97567651	4.361686667	7.02717
Ccdc99	chr11:34622686-34647143	4.361063333	2.536397333
Ssbp4	chr8:73121388-73132213	4.360435667	1.987286667
Wibg	chr10:128184934-128203624	4.360313	9.368776667
Mlycd	chr8:121918791-121934988	4.359533333	3.538452333
Wdr18	chr10:79422896-79431991	4.35849	10.29309667
Zbtb43	chr2:33305807-33324052	4.357476667	6.906716667
Gnal	chr18:67247989-67386445	4.356383333	17.84421667
Recql5	chr11:115753908-115794806	4.348675	6.89382
Serpinh1	chr7:106493884-106501749	4.34788	5.800451667
Zdhhc2	chr8:41509168-41570196	4.346853333	3.967513333
Zfp438	chr18:5210028-5334437	4.346463333	4.852931667
Cpvl	chr6:53823374-53928656	4.344203333	0.170028667
Olf998	chr2:85430666-85431678	4.342711333	0
Cdkn2c	chr4:109333480-109337977	4.342396667	9.87822
Lce3f	chr3:92796147-92797348	4.342136667	5.58407
Plxdc2	chr2:16277948-16673742	4.338293333	11.45506
Slc25a32	chr15:38925736-38944262	4.337426667	3.374203333
Zfp35	chr18:24148134-24163872	4.334236667	7.55145
Mpg	chr11:32126504-32132702	4.33378	1.32396
Dnahc9	chr11:65644825-65982053	4.333363333	0.880868267
2610027L16Rik	chr14:56364529-56374471	4.331481667	4.68936
Gpsm1	chr2:26171052-26203757	4.326243333	4.304943333
	9-Mar chr11:105222111-105318049	4.325813333	0.691083667
Nudt6	chr3:37303905-37318512	4.32552	12.27056867
Ppm1e	chr11:87040407-87172496	4.325323333	4.798266667
Kdelr3	chr15:79346837-79358169	4.3249	2.182724333
Zfp119b	chr17:56077797-56084682	4.324793333	4.146076667
Lym7	chr11:54652790-54674093	4.323536667	4.37104
Sh3bp5	chr14:32187149-32249219	4.322876667	13.52374667
Has3	chr8:109394141-109406802	4.319716667	5.033016667
E330009J07Rik	chr6:40357496-40386132	4.31767	15.8832
Arrdc2	chr8:73359036-73363619	4.31758	4.94671
Fosl1	chr19:5447697-5455938	4.317453333	6.70183
Pgcp	chr15:33012883-33524307	4.31671	9.619316667
Zfp119a	chr17:56004191-56018195	4.311636667	1.809766667
Gpr155	chr2:73179563-73224455	4.31108	3.601753
Fbxo47	chr11:97715620-97745468	4.310756667	0.809428667
Hist1h2bq	chr13:21898280-21902068	4.30945	5.25397
Sgcb	chr5:74023987-74038970	4.308843333	10.45462
AA474331	chr10:39612565-39619044	4.308193333	0
Cdkn2d	chr9:21092907-21095653	4.306333333	7.128736667
Cdkn2d	chr9:123836859-123839607	4.306333333	6.96893
3110082I17Rik	chr5:139835692-139936488	4.305	10.17693333

Dbf4	chr5:8396968-8422716	4.304352333	2.644720667
Pcdh15	chr10:73284614-74112477	4.304146667	2.413441333
1700066J24Rik	chr4:41464469-41465962	4.300416667	6.495246667
Gm885	chr11:106612581-106628882	4.299573333	1.96537
Pon3	chr6:5170851-5206233	4.295443333	5.105577933
Ccl25	chr8:4325209-4360020	4.293668667	0.304851667
Gpr137c	chr14:45839391-45900651	4.29116	1.343251
Cdc42ep4	chr11:113588163-113613129	4.291063333	10.51235
Pcdhb4	chr18:37467108-37470827	4.290783333	10.71344333
6330416G13Rik	chr4:63221393-63247387	4.290354333	2.67915
0610009B14Rik	chr12:81787361-81793453	4.290253333	0.130847667
Fam73b	chr2:30219752-30241039	4.28953	3.342516667
Ccdc3	chr2:5058821-5151912	4.2885	11.67836333
2310028H24Rik	chr4:41465961-41516560	4.287852	1.35234
Gba2	chr4:43579799-43591736	4.286603333	6.583636667
Wdsub1	chr2:59690421-59720663	4.283826667	8.653513333
Cd37	chr7:52489001-52494209	4.281346667	0.469966667
Thop1	chr10:80532827-80545105	4.281322	10.97509
Plcg1	chr2:160557045-160601496	4.28099	7.22277
Zbtb26	chr2:37287687-37298641	4.279963333	4.095856667
Chchd8	chr7:107685613-107688326	4.278753333	6.922624333
1700012D01Rik	chr10:127104178-127105907	4.276194333	0.115865
Tmprss11a	chr5:86839434-86898015	4.275303333	26.61175
Fastkd3	chr13:68721124-68731156	4.274094	4.881306667
Blcap	chr2:157382097-157392097	4.27374	6.411093333
Pdp2	chr8:107115367-107120749	4.270640667	9.32215
Gm16907	chr13:63390461-63398455	4.26664	15.52983333
Zkscan17	chr11:59299022-59320142	4.266223333	6.13728
Ptgfrn	chr3:100844158-100914089	4.266213333	11.35124
Dner	chr1:84366413-84692796	4.2662	53.07523333
Plch2	chr4:154357223-154385093	4.264883333	8.807946667
1110034A24Rik	chr12:70290824-70299416	4.26355	6.569073333
lfrd2	chr9:107490048-107495369	4.26236	1.514568
Hspbap1	chr16:35770471-35828548	4.261406667	1.301557333
X99384	chr10:60782404-60846271	4.25865	9.895983333
Sorbs1	chr19:40366529-40588302	4.25772	9.06149
Mndal	chr1:175787350-175810318	4.256083333	0.155398667
Gm7120	chr13:120276845-120284312	4.255856667	0.547346667
Hist1h2br	chr13:21925611-21929399	4.25447	5.050373333
9430015G10Rik	chr4:155484106-155501372	4.254149667	5.881266667
1700010B08Rik	chr2:173544915-173547587	4.252763667	0.809573667
Sulf1	chr1:12682510-12850453	4.252183333	0.327713
Als2cr4	chr1:59157436-59176940	4.251166333	3.25167
Xdh	chr17:74233247-74299522	4.248716667	3.050492467
Gm4013	chr18:42434033-42434851	4.24639	2.125616667
Pitx1	chr13:55926414-55932786	4.245183333	14.31386667
Map3k9	chr12:82815936-82882157	4.244486667	5.38927
Ddx20	chr3:105481379-105490489	4.23982	9.36116
Scel	chr14:103912557-104012563	4.239663333	14.24993333
Ephx1	chr1:182919686-182947626	4.23926	13.15945333
Cd55	chr1:132335606-132359317	4.238618667	6.414793333
Obfc2a	chr1:51526331-51535243	4.235323667	4.675216667

Gm6225	chr18:3336413-3366861	4.235146667	0.542823333
Sema3f	chr9:107583832-107612806	4.234363333	8.749093333
Bahcc1	chr11:120094260-120153611	4.22998	3.328
Slc5a6	chr5:31338408-31351297	4.224543333	1.731455667
Psd2	chr18:36124488-36174369	4.22413	0
Pus7	chr5:23246513-23289479	4.222926667	5.765473
Tlcd1	chr11:77992267-77994274	4.222816667	4.782506667
Klhl15	chrX:91480268-91518854	4.220813333	5.088431667
Zbtb40	chr4:136535646-136604610	4.220756667	1.930867
C530008M17Rik	chr5:77269623-77302579	4.220636667	5.047166667
Lrtm1	chr14:29831393-29846828	4.220326667	0.222403667
Themis	chr10:28388200-28602555	4.219293333	1.772759
1700034H15Rik	chr1:193717950-193731406	4.21914	2.53583
Prdm15	chr16:98013073-98072834	4.21874	7.728776667
Jmjd4	chr11:59263546-59272069	4.218183333	7.831646667
Cdon	chr9:35259660-35315237	4.21802	4.38527
Rap2b	chr3:61168428-61172625	4.217456667	5.440413333
Mettl8	chr2:70802619-70893663	4.217023333	2.726815
Srm	chr4:147965621-147968728	4.216563333	14.79366667
Hcn4	chr9:58671318-58708762	4.216353333	16.97016667
Cog8	chr8:109572608-109580637	4.211333333	5.866076667
Sdsl	chr5:120908210-120922772	4.207506667	5.51047
Adam28	chr14:69224083-69273899	4.20746	5.314319333
Zfp59	chr7:28623602-28641793	4.20694	5.649456667
Niacr1	chr5:124313578-124315525	4.205983333	3.1269766
Hist1h2ap	chr13:21924951-21925344	4.204226667	1.811606804
Mfge8	chr7:86278653-86293946	4.20354	11.02546667
Ppp1r35	chr5:138220145-138221335	4.202523333	14.22266833
Dhx35	chr2:158620555-158683950	4.200593333	2.44385
Tatdn3	chr1:192869708-192886811	4.200333333	4.012111333
Smug1	chr15:102983720-102993715	4.199526667	8.00939
Dpy19l3	chr7:36470518-36539473	4.197236667	4.99648
Esrra	chr19:6985466-6996298	4.193473333	1.677666667
Zfp219	chr14:52625749-52640408	4.189806667	6.512513333
Iqcb1	chr16:36828485-36872801	4.18973	13.88953333
Tmem120b	chr5:123526283-123567454	4.18946	5.364973333
Stard4	chr18:33361074-33373470	4.187813333	6.95917
Ube2m	chr7:13620468-13623624	4.181853333	4.583373333
AA987161	chr13:67690375-67710644	4.181796667	6.24309
Slc25a45	chr19:5878465-5885768	4.1807	0.717818933
Dll3	chr7:29078573-29086804	4.178936667	24.05843333
Fzd6	chr15:38837825-38869736	4.17779	17.91473667
Gm13306	chr4:42349016-42351113	4.177443333	0.394930816
Cebpd	chr16:15887378-15889638	4.177024	3.799213333
Polr1a	chr6:71859046-71929355	4.175176667	11.36948667
A630072M18Rik	chr5:20456806-20462216	4.1735	0.067696333
Trpv3	chr11:73081121-73110702	4.173156667	4.65959
Ltbp3	chr19:5740903-5758532	4.172743333	9.08939
Elovl6	chr3:129235303-129341411	4.17269	10.18183667
Nccrp1	chr7:29328615-29332273	4.171336667	10.89122333
1700001O22Rik	chr2:30651082-30659184	4.168324333	2.16303
L3mbtl3	chr10:25995257-26094991	4.168220667	4.470996667

Cbwd1	chr19:24994405-25036106	4.166263333	7.72528
Gorasp1	chr9:119834790-119846676	4.164923333	4.031406667
Polr1b	chr2:128926731-128952331	4.16445	1.511697
Slc2a8	chr2:32828508-32837576	4.15288	6.73503
Nob1	chr8:109936388-109948938	4.15284	2.923037667
Mmab	chr5:114881042-114894036	4.150843333	9.5042
Col25a1	chr3:129883762-130302801	4.1487	3.351025667
Trpt1	chr19:7070620-7073536	4.147866667	34.9549
Tmem150c	chr5:100506891-100588827	4.14754	4.098046333
Cln2	chr16:20703038-20716709	4.14703	6.262593333
Pcdhb7	chr18:37501355-37504861	4.14661	2.318006667
Ecsr	chr18:35872742-35881145	4.146029333	0
Cln3	chr7:133714913-133727794	4.144883333	14.01471333
Bckdhb	chr9:83842387-84017847	4.144226667	12.2408
Incenp	chr19:9946786-9974023	4.141724667	3.4426
Stradb	chr1:59030414-59051965	4.141176667	5.874583333
Gm14434	chr2:176266768-176283149	4.138836667	1.5279
2210015D19Rik	chr11:5662152-5684713	4.138653333	4.140116667
Wwc2	chr8:48912963-49075905	4.138083333	1.160039
Zfp697	chr3:98186403-98235872	4.137756333	0.038232267
Pcdhga6	chr18:37866882-38001524	4.13696	2.733771667
Slc38a7	chr8:98359822-98377391	4.13664	2.000764333
Cap2	chr13:46597271-46745650	4.135256667	1.300588067
Srrd	chr5:112766410-112772060	4.13286	0.557599667
Plcx2	chr16:45959373-46010526	4.1316	1.371784667
Elk1	chrX:20510520-20527726	4.12983	6.542896667
Ldlr	chr9:21528019-21554362	4.129026667	23.86846667
Agbl2	chr2:90622900-90656388	4.128513333	53.5575
Arpp21	chr9:111967594-112137345	4.12522	0.0164025
Fads1	chr19:10257377-10271362	4.124993333	6.9772
Zfp287	chr11:62524987-62542595	4.123183333	3.032016667
Plin2	chr4:86302468-86315963	4.12262	7.20334
4933433F19Rik	chr8:31678866-31686045	4.122426667	0
Twistnb	chr12:34114488-34124245	4.1216	6.064976667
Slc25a42	chr8:72708238-72736180	4.116823333	2.930603333
Galnt7	chr8:60002621-60131852	4.11543	9.56378
Mppe1	chr18:67385183-67405484	4.113883333	1.055741
Tbc1d9	chr8:85689250-85796839	4.112733333	10.18604333
Fam124a	chr14:63174573-63227322	4.11238	7.069138667
Kcnmb4	chr10:115854923-115910579	4.109963672	1.914987
Abl2	chr1:158488917-158579750	4.106683333	6.566756667
Thbs3	chr3:89019108-89030759	4.105703333	12.38078
Ccdc77	chr6:120274339-120314387	4.10426	1.55978
Ears2	chr7:129182334-129210577	4.103646667	3.660525
Pycr2	chr1:182834404-182838219	4.100672	7.232351333
LOC626049	chr1:108049201-108068101	4.099231	0
Mcm6	chr1:130228167-130256233	4.09736	3.175523
Fbxw8	chr5:118514989-118605467	4.092186667	4.84193
Ppp1r1b	chr11:98210051-98219109	4.083830333	10.09332267
Heatr5a	chr12:52976859-53072308	4.083566667	1.774832333
Fbxl2	chr9:113886075-113935869	4.08174	2.52691
Cnm4	chr1:36528441-36565621	4.080903333	4.968863333

Zfa	chr10:52262125-52265545	4.080596667	2.039756667
Spata9	chr13:76105186-76136416	4.07988	6.611323333
Degs1	chr1:184205900-184212890	4.07974	17.61433333
D16H22S680E	chr16:18300917-18344025	4.079703333	4.89233
Polg	chr7:86594268-86611159	4.078016667	6.609486667
Gm14477	chrX:10885949-10886267	4.074039333	0.0135858
Mkl1	chr15:80842710-81021187	4.072066667	8.08742
Zfp579	chr7:4944453-4947703	4.07064	3.20902
Ppp1r18	chr17:36002539-36012541	4.070317	2.403158333
Ubash3b	chr9:40821723-40965577	4.06917	3.062891667
Cdc42ep5	chr7:4102861-4116301	4.06836	25.22814333
Capn10	chr1:94830984-94844525	4.066733333	5.16861
1700011J10Rik	chr2:72817488-72827306	4.06631	7.605566667
Gnaz	chr10:74429975-74478622	4.065815667	2.395848
4921530L18Rik	chr2:13991959-13995561	4.063053333	1.874353333
Kazald1	chr19:45150628-45153779	4.060891	3.618792333
Rasef	chr4:73360482-73436506	4.05984	9.404393333
Ankrd26	chr6:118452581-118512274	4.058526667	5.500913333
Slc26a11	chr11:119216870-119242390	4.05774	3.197869667
Cyp4f39	chr17:32589667-32630265	4.057048667	7.369506667
lfitm1	chr7:148153327-148155726	4.056543333	45.75172
Pik3ip1	chr11:3230733-3242974	4.05583	14.40187667
9930104L06Rik	chr4:124614291-124621905	4.050576667	2.125166667
Urb1	chr16:90751771-90810658	4.049613333	1.953048333
Gale	chr4:135521079-135524093	4.046731333	7.419073333
2410127L17Rik	chr19:18745269-18779282	4.046046667	7.87256
4933433C11Rik	chr2:25068078-25070150	4.045248	4.273538
Id4	chr13:48356795-48359405	4.043756667	16.35956667
Rab3d	chr9:21711954-21722565	4.0437	14.15716667
Arv1	chr8:127246038-127258023	4.04264	6.88529
Sh2b3	chr5:122267223-122286810	4.042017	1.901694
Lbh	chr17:73267644-73291286	4.04201	15.31394667
Nudcd2	chr11:40547143-40553549	4.040806667	4.305423333
Igsf9	chr1:174412343-174429008	4.040013333	12.95135
Krt85	chr15:101346118-101521940	4.036466667	11.17355333
Ccnd2	chr6:127075726-127101066	4.03283	18.09386333
Rims2	chr15:39029831-39515918	4.027353333	7.260333333
4921517L17Rik	chr2:156138208-156201374	4.022323333	1.803663333
Morn1	chr4:154460685-154519616	4.021033333	1.981919333
Gm11818	chr4:12833983-12908632	4.019926667	2.695055467
Ankrd24	chr10:81091284-81110357	4.019603333	3.807793333
Pparg	chr6:115311238-115440419	4.015916667	0.894042667
Alg8	chr7:104520126-104540668	4.015320667	20.26703
Dock3	chr9:106795155-107134240	4.014296667	1.053505
D10Jhu81e	chr10:77624811-77632513	4.013573333	2.865878
Prim2	chr1:33510655-33726603	4.012626667	0.8434582
P2ry14	chr3:58918546-58934546	4.01022	1.028149667
Myof	chr19:37973525-38118067	4.009893333	10.09253333
Umps	chr16:33955097-33967089	4.007957667	10.95886
Cish	chr9:107199019-107204292	4.006616667	7.434438467
LOC433944	chr5:120135096-120141227	4.00568	11.87138667
Sqrdl	chr2:122591094-122635287	4.005606667	18.30464667

Kif6	chr17:49754496-50049172	4.00232	0.858993333
Stoml1	chr9:58100970-58110331	4.002243333	3.421656667
Rbm24	chr13:46513668-46526468	4.0021	13.69944667
Slx4	chr16:3979122-4001680	4.001886667	5.468376667
9830001H06Rik	chr2:156836177-156905001	4.00019	9.89717
Ccdc46	chr11:108286579-108721929	3.99925	3.378166667
Txndc11	chr16:11075003-11134625	3.99754	11.53597333
Kti12	chr4:108520461-108522017	3.993213333	7.686616667
Sepn1	chr4:134093806-134108081	3.993063333	7.717733333
Arhgap33	chr7:31307244-31320028	3.992154	2.605361333
4930444A02Rik	chr8:27091075-27104593	3.991763333	7.528663333
Ccdc88c	chr12:102150909-102267193	3.99024	3.567953333
Osgepl1	chr1:53370506-53380908	3.98846	5.33246
Wbscr25	chr5:135463302-135477220	3.987199333	0.287586067
Zfp524	chr7:4967109-4970090	3.9855	5.606853333
Ppp1r3f	chrX:7135687-7151246	3.985308333	2.1944
2700038G22Rik	chr5:23356414-23360851	3.984523333	1.210913333
4930511A02Rik	chr12:11445038-11451618	3.980926667	0.0246768
0610043K17Rik	chr4:101026387-101071790	3.979371667	0.995083333
Sectm1b	chr11:120914736-120924883	3.973848	4.882016667
Sntb2	chr8:109459649-109538092	3.973212333	8.89598
Ace2	chrX:160577273-160626350	3.970844667	10.56951333
Alox15	chr11:70157648-70165533	3.968158	11.42671293
Dnajb3	chr1:90101306-90102323	3.967826667	5.097851
Wwc1	chr11:35652679-35793591	3.96739	5.033416667
Dolpp1	chr2:30247935-30256047	3.963616667	4.464243333
Rdh10	chr1:16095962-16122631	3.963003333	6.061163333
Bglap2	chr3:88181657-88182621	3.957506667	413.5813333
Gpr98	chr13:81234066-81772143	3.956006667	0.910829
Tmem63a	chr1:182872648-182905235	3.95292	7.887033333
Gch1	chr14:47773569-47809077	3.952863333	4.11735
Tsix	chrX:100626855-100680296	3.952413667	0.112710395
Lipe	chr7:26164545-26181006	3.949123333	5.50073
Dvl2	chr11:69814127-69823611	3.94886	1.66178
BC051226	chr17:34045126-34046123	3.947586667	2.031916667
Elk3	chr10:92710160-92773904	3.943573333	4.369106667
Gm129	chr3:95682427-95686151	3.942630667	2.0411714
Epn3	chr11:94350912-94361288	3.94133	6.555046667
Gpr68	chr12:102114891-102146408	3.941109667	0.689618333
lqsec2	chrX:148578810-148659779	3.94099	6.625666667
Snrpd3	chr10:74980786-74998185	3.937893333	17.25118667
Slc35e4	chr11:3807024-3814667	3.937873333	5.626613667
Sytl3	chr17:6877959-6942393	3.936496667	14.93342667
Dnajb7	chr15:81237517-81238703	3.935902333	0.103416
Gbp3	chr3:142223015-142236176	3.933579667	1.891116
Gla	chrX:131122707-131135544	3.932395333	5.74394
Nup37	chr10:87609736-87641140	3.931635667	1.419403333
Slc38a9	chr13:113450973-113528960	3.93075	4.829496667
Dimt1	chr13:107737208-107750304	3.929426667	4.42789
Mipep	chr14:61403402-61524317	3.9259	8.14287
Unc119b	chr5:115572574-115584984	3.92574	8.12131
Caprin2	chr6:148791033-148844648	3.924953333	3.775393333

C330006K01Rik	chr5:142939884-142954669	3.924463333	4.750226667
Ribc1	chrX:148439126-148450838	3.923033333	2.287505333
Rbm19	chr5:120566521-120648980	3.921646667	2.165919333
Vldlr	chr19:27291509-27328721	3.921386667	1.451799
Tmem132a	chr19:10932318-10944269	3.919443333	10.94894667
Cpsf4	chr5:145928092-145942909	3.916412333	1.81063
Runx2	chr17:44740949-44951746	3.916326667	54.43933333
A430090L17Rik	chr13:114914555-114941800	3.915596667	1.45924
Fbxl18	chr5:143633467-143656917	3.914393333	2.122646667
Sh2d3c	chr2:32576574-32610527	3.914336667	3.879709
C920021L13Rik	chr3:95675444-95693016	3.914106	0.177523333
1700105P06Rik	chr19:7457492-7458047	3.911833333	0
9230114K14Rik	chr5:52581919-52589223	3.911153333	4.976686667
Pstk	chr7:138514659-138531352	3.910691	3.200840667
Tmcc2	chr1:134252891-134287858	3.910576	1.520058333
Abcb10	chr8:126476358-126507022	3.91042	8.398313333
Prkce	chr17:86567124-87057259	3.90962	6.20171
Krt79	chr15:101759762-101770755	3.904136667	1.358266
Scn5a	chr9:119392525-119488134	3.90413	6.77626
Adamts11	chr4:85699818-86074286	3.901573333	2.054934667
Tdp2	chr13:24923527-24934022	3.90124	8.232863333
Gm4944	chr17:22334231-22362581	3.900416667	1.27583
Mtmr7	chr8:41635512-41720146	3.89985	3.070973335
1700018L24Rik	chr8:11840520-11855761	3.8991	0
Hexdc	chr11:121065746-121083970	3.897036667	4.390856667
Mrpl15	chr1:4763278-4775807	3.89293	2.120878
Thsd7b	chr1:131169880-132115855	3.890893333	0.007043133
Nr2f2	chr7:77496835-77511632	3.890796667	4.863353333
Tctn1	chr5:122691523-122714469	3.885653333	5.546836667
Chac2	chr11:30876708-30886365	3.884403333	4.603886667
Ppil3	chr1:58487836-58502330	3.883816667	12.40370333
Cdc42ep3	chr17:79733364-79754431	3.882433333	4.353284667
Efnb2	chr8:8617438-8660773	3.88073	10.29384
Rarg	chr15:102065370-102087914	3.878886667	8.376543333
Zfp52	chr17:21672502-21699565	3.878333333	3.11678
Capn3	chr2:120289328-120330655	3.876573333	11.92381667
Rnf138	chr18:21159841-21186724	3.873506667	4.316293
Slc16a6	chr11:109312169-109334910	3.871553333	2.26057
Pcdhb8	chr18:37514924-37517264	3.869066333	6.786015
Bad	chr19:7016344-7026383	3.868173333	6.10315
Qpct	chr17:79451245-79489583	3.854403333	0.157012
B3gat1	chr9:26559146-26568923	3.853126667	0.96809
Sh3kbp1	chrX:156065339-156413849	3.852435	13.82600333
Zfp688	chr7:134562479-134565548	3.852146667	2.696181667
Cdk5rap2	chr4:69884057-70071401	3.851056667	5.53147
Dgcr6	chr16:18052952-18071435	3.850296667	6.86995
Sap30l	chr11:57615138-57624117	3.847973333	4.378506667
Kif13b	chr14:65271367-65425133	3.84783	3.838306667
Gpr19	chr6:134819110-134847943	3.84593	5.722133333
Nxn	chr11:76070727-76212643	3.845153333	13.98541667
Adprhl2	chr4:125993594-125998947	3.844023	3.401433333
Adhfe1	chr1:9538126-9568049	3.842326667	13.08529667

Nfkbil1	chr17:35357119-35372760	3.84163	0.188544333
Glyat	chr19:12707797-12726227	3.840163333	0
Lrfn4	chr19:4611783-4615667	3.838493333	4.314893333
Nudcd1	chr15:44206772-44259853	3.838316667	2.268773
4831440E17Rik	chr5:25005614-25010291	3.836623333	2.438263333
Zfp787	chr7:6083090-6107573	3.833149	6.88099
Gm5796	chr14:4126976-4144402	3.830636667	2.73995
Pcp4	chr16:96689212-96747400	3.829786667	6.530413333
Gm3414	chr5:46110905-46118817	3.82976	3.324513333
1700040L02Rik	chr10:67893703-68004623	3.829591	3.06648
Rcbtb2	chr14:73542316-73583861	3.82891	8.305196667
Zfp82	chr7:30841052-30857842	3.823186667	5.674400333
Nupl2	chr5:23670780-23689826	3.821363333	7.530156667
Mob3a	chr10:80147997-80164565	3.814083333	6.294086667
Kif5a	chr10:126662750-126700419	3.81122	6.211593333
2810008M24Rik	chr13:108834667-108839340	3.806603333	11.42534333
4930534B04Rik	chr12:92236931-92622849	3.805327333	5.84534
Tef	chr15:81633102-81657293	3.804123333	5.544113333
Gigyf1	chr5:137960107-137969163	3.804053333	6.961413333
Ctu1	chr7:50927400-50933667	3.803594	2.200043333
Tinf2	chr14:56297917-56300654	3.8034	7.229253333
Tdrkh	chr3:94217239-94235421	3.799030667	5.518353667
Nkrf	chrX:34427536-34442894	3.798246667	10.31203333
Dars2	chr1:162970743-163000763	3.797586667	4.782446667
Them4	chr3:94114053-94136454	3.79697	2.900186667
Grm2	chr9:106546865-106558440	3.795873333	6.01955
Pin1	chr9:20456573-20471028	3.794493333	1.727522667
Jub	chr14:55186305-55196498	3.792596	5.67892
Tnfrsf9	chr4:150294263-150320211	3.789186667	0.42447
Atp8b2	chr3:89743402-89767430	3.788753333	4.413473333
Mum1	chr10:79689342-79707889	3.78857	3.390296667
Fbxo10	chr4:45047119-45097476	3.78686	2.884386667
Zc3h8	chr2:128752003-128769756	3.786697667	10.71197
4930414L22Rik	chr6:72388676-72390609	3.786416667	0.930476
Ubtd1	chr19:42056252-42109131	3.78119	3.359811
Paox	chr7:147311583-147320233	3.781081333	2.35775
Ttc18	chr14:21213411-21271447	3.78044	3.663763333
Ctns	chr11:72996634-73012521	3.77628	7.407263333
Serpib1a	chr13:32933960-32943054	3.775776667	4.906713667
Kcnj3	chr2:55289566-55447936	3.774968533	0.118491567
Idh2	chr7:87239733-87260236	3.77273	17.12094333
Plxna3	chrX:71574404-71590028	3.772266667	8.162496667
Tgif2	chr2:156665812-156681267	3.770676667	3.158976667
Gins3	chr8:98157458-98168959	3.769943333	6.656166333
Zfp934	chr13:62618156-62659959	3.769343333	0.338666667
Susd3	chr13:49326199-49344075	3.76916	0.663493333
Slc24a1	chr9:64770667-64799414	3.765933333	0.354588667
2210414B05Rik	chr4:3583652-3590255	3.759983333	0.506776667
Fam123b	chrX:92615652-92640179	3.75988	4.443256667
Shpk	chr11:73012983-73038008	3.759393333	5.304786667
Slc15a2	chr16:36750249-36785048	3.75878	13.28017
Pgm2	chr4:99602055-99659899	3.758206667	13.57973333

Mybph	chr1:136090024-136097809	3.756453333	5.64179
Eya2	chr2:165480797-165597131	3.756143333	5.385975333
BC068281	chr12:4850108-4863773	3.755945	5.955686667
LOC100642166	chr5:110362581-110370729	3.752586667	4.108738
Zfp41	chr15:75447114-75455725	3.751216667	0.924205667
Ddx25	chr9:35349432-35366055	3.75081	2.026826667
D430020J02Rik	chr12:117640419-117643634	3.750663333	4.310690467
Gstm2	chr3:107784619-107789354	3.7486	15.26239
5930416I19Rik	chr6:128307017-128312915	3.746903333	5.213123333
Slc9a6	chrX:53863011-53917407	3.746233333	7.744316667
1700017B05Rik	chr9:57100128-57110406	3.745863333	71.08993333
4933407K13Rik	chrX:72970796-73010038	3.744933333	3.051453333
Pld6	chr11:59597394-59601159	3.743005	2.945504667
Arid5a	chr1:36364577-36380874	3.74253	2.574916667
Zfp111	chr7:24978233-24993168	3.740773333	3.58411
1700084E18Rik	chr2:30092717-30093151	3.739646667	3.458433333
Bin1	chr18:32536870-32595394	3.737010667	4.504246667
Elac2	chr11:64792536-64815578	3.73588	6.340426667
Pex5	chr6:124346833-124365085	3.731351333	5.730746667
Mterf	chr5:3890580-3893933	3.72889	3.92884
Slx1b	chr7:133832440-133839297	3.727056667	2.99559
Gm4285	chr14:76242724-76244771	3.727006667	0.667080333
2400009B08Rik	chr8:3671184-3672321	3.72698	2.213993333
Irak4	chr15:94374090-94398747	3.725566667	4.604590333
Star	chr8:26918984-26926454	3.72445	5.50229
Ndrp2	chr14:52524945-52533163	3.723886667	31.1019
Agl	chr3:116442916-116511084	3.721163333	3.488926667
Tmco1	chr1:169238800-169264109	3.7196	4.65789
Ccdc107	chr4:43506236-43508793	3.715318	10.83953433
Galnt14	chr7:118615174-118923491	3.714406667	2.820653333
Zdhhc18	chr4:133162906-133189344	3.714076667	12.6711
Igsf21	chr4:139582766-139802726	3.7138	5.848456667
Pola2	chr19:5940542-5964206	3.713276333	2.32884
Aldoc	chr11:78137699-78140262	3.712666667	2.83761
Abcb9	chr5:124511865-124545807	3.712120333	1.276461267
Abl1	chr2:31544075-31659747	3.71143	6.824266667
Lynx1	chr15:74578285-74583409	3.709616667	5.915916667
Sv2a	chr3:95985149-95999103	3.70946	13.73659667
Hist1h3h	chr13:21809496-21809984	3.709023333	1.843106667
Pla2g4b	chr2:119859168-119868768	3.708206667	6.04014
Nr2c1	chr10:93610675-93659959	3.7082	10.80395667
Fgfr2	chr7:137305964-137410322	3.705216667	16.97277333
Stx1a	chr5:135499441-135526969	3.70521	3.93275
Kcnc1	chr7:53651837-53694074	3.70454	47.90873333
Tgfb1	chr13:56710963-56740700	3.704303333	8.025136667
Abra	chr15:41696838-41701266	3.70083	2.121354333
B130006D01Rik	chr11:95584899-95588087	3.700594	1.430831333
Fam173b	chr15:31531870-31547290	3.698396667	4.25315
Ppp1r14d	chr2:119043858-119055601	3.696886333	0
Fkbp5	chr17:28536039-28623057	3.696363333	1.898867
Atp7b	chr8:23104819-23170546	3.695163333	3.197715
Gan	chr8:119682034-119729086	3.694293333	5.07701

Tmem71	chr15:66357773-66392608	3.69401	0.7650726
Ccnyl1	chr1:64737918-64772216	3.6916	4.186946667
Plekha8	chr6:54545104-54595816	3.691086667	5.50811
Bend3	chr10:43198945-43235223	3.69032	4.388876667
Ccdc96	chr5:36827236-36830820	3.68823	1.206627333
Zfp420	chr7:30644997-30662321	3.686863333	2.083773333
Epha6	chr16:59653308-60605357	3.68602	0.031898267
Otub2	chr12:104615103-104644560	3.684933333	2.175462667
Mipol1	chr12:58331411-58558228	3.68167	5.22468
Cox11	chr11:90499497-90507291	3.68161	1.903263333
Ebpl	chr14:61958599-61979282	3.681184333	0.616219933
Gmds	chr13:31911454-32430413	3.679286667	12.57048
Tubd1	chr11:86358492-86380862	3.674049667	2.267694333
Mrps11	chr7:85928016-85937874	3.673733333	2.881817
Fmo2	chr1:164805177-164828843	3.673236	3.101876667
2010109K11Rik	chr12:33063653-33067808	3.67138	6.332526667
2810408I11Rik	chr1:64726442-64737233	3.670018333	0
Acn9	chr6:6906017-6989220	3.668696667	5.272806667
B3gnt9-ps	chr8:107776537-107779051	3.668041333	2.148500333
Plip	chr8:97198794-97220142	3.668003333	5.555211333
Prmt6	chr3:110049027-110053916	3.666104333	8.631583333
Ptdss2	chr7:148317184-148342053	3.663963333	4.856796667
Hmgcl	chr4:135502367-135518532	3.663933333	1.930003333
Mfsd11	chr11:116715328-116736951	3.66289	8.20305
AU041133	chr10:81590757-81615810	3.662823333	1.71993
Prss12	chr3:123149830-123209520	3.661959333	1.480644333
1110054M08Rik	chr16:24392641-24393741	3.65325	1.252417667
Pomc	chr12:3954950-3960618	3.65262	1.613516667
Ppih	chr4:118972614-118993128	3.6503	6.80198
Fmo3	chr1:164883930-164914622	3.647619	14.43183333
3110056O03Rik	chr10:80318019-80331453	3.646362667	4.990866667
Arhgef9	chrX:92244282-92361825	3.645113333	3.046393
Mcm4	chr16:15623989-15637493	3.644176667	2.547256667
Narfl	chr17:25910720-25920277	3.6438	4.199246667
Wdr24	chr17:25960571-25965675	3.643493667	2.521336333
Vangl1	chr3:101960618-102008616	3.642913333	7.155956667
Nlgn2	chr11:69636624-69648351	3.63987	16.65213333
Ahcy	chr2:154885047-154900233	3.638513333	4.76164
2310011J03Rik	chr10:79780999-79783293	3.637606667	8.722556667
Thns1	chr2:21127350-21136636	3.632903333	2.926768333
D830029L11	chr18:16974915-16981292	3.631290233	0
Toe1	chr4:116476607-116480164	3.629403333	0.520679667
9130230L23Rik	chr5:66379166-66395524	3.629206667	1.924066667
BC030336	chr7:127821133-127878368	3.62727	4.12256
Paqr8	chr1:20880702-20928837	3.626532	2.417012667
Ovol1	chr19:5549136-5560575	3.62628	10.63642667
9430091E24Rik	chr8:113651343-113669398	3.626216667	1.450517333
Ugt1a6a	chr1:90031383-90116577	3.62309	6.576779333
Fam175a	chr5:101233820-101249954	3.61981	8.779756667
Pgam2	chr11:5701639-5703799	3.619036667	4.676676667
Inpp5a	chr7:146575007-146765551	3.61839	5.898666667
Dnlz	chr2:26203637-26207630	3.61662	7.953674333

Trib2	chr12:15798532-15823591	3.61629	14.4437
Art1	chr7:109250256-109259662	3.615727333	0
Tmem115	chr9:107436275-107440987	3.615356667	3.17815
Ripk2	chr4:16050521-16090645	3.61467	9.0869
Lbr	chr1:183745445-183772532	3.6133	12.89742333
Prkd3	chr17:79348744-79420156	3.612536667	7.611946667
Zfp958	chr8:4613169-4630231	3.61207	2.497563333
Yars2	chr16:16303057-16309733	3.607043333	4.5432
1700001P01Rik	chr11:97632794-97637232	3.606843333	1.546243333
Gm5803	chr15:22643574-22644739	3.603273333	4.65725
Pgbd1	chr13:21513143-21532922	3.602466667	1.295469
Pex12	chr11:83108146-83112479	3.601106667	5.205913333
I830012O16Rik	chr19:34682446-34687891	3.600072333	0.60029
Mrpl35	chr6:71762990-71773778	3.59894	3.55068
Rps6ka1	chr4:133403205-133443714	3.59361	7.00264
Asb1	chr1:93437141-93456167	3.589693333	3.89457
Zfp946	chr17:22561234-22593656	3.586146667	1.557812667
Lrriq1	chr10:102525831-102698956	3.586006667	5.400936667
1700036G14Rik	chr3:85121440-85135949	3.5855	0
Naglu	chr11:100931407-100938985	3.585396667	4.065583333
Flt3l	chr7:52386558-52391802	3.585326667	6.281813333
Pdxk	chr10:77899491-77927693	3.582836667	4.622621
BC026585	chr1:159388712-159418864	3.577933	0.624733333
Sult1c1	chr17:54100939-54129956	3.577890333	1.345193333
Gm13032	chr4:140366907-140373426	3.577576667	1.528629383
Il1f6	chr2:24070936-24081221	3.577433333	5.11769
Als2cl	chr9:110782677-110803034	3.576413333	2.090554467
Zfp607	chr7:28645603-28665844	3.57623	3.110446667
Fam102b	chr3:108773914-108830525	3.5728	6.3168361
Zfp472	chr17:33102775-33116156	3.57225	2.154856667
1700017J07Rik	chr2:168803768-168804406	3.570696667	0
Adora1	chr1:136095798-136132008	3.56803	10.83717667
Spata17	chr1:188872285-189039325	3.566653333	1.162060833
Fam33a	chr11:86922762-86936476	3.565436667	4.46227
Slc5a1	chr5:33446867-33505348	3.565256667	3.39271
Map3k10	chr7:28441395-28459617	3.56425	1.671904333
Sidt1	chr16:44240292-44332951	3.562753333	0.332154633
Ptpm	chr17:67016187-67703799	3.562486667	1.511523333
Tor3a	chr1:158583747-158604470	3.560213333	9.138592333
Tagap	chr17:8118864-8127762	3.558276667	1.113678
Fez2	chr17:78777224-78817443	3.55637	3.489210333
Siah1b	chrX:160508634-160513981	3.555626667	3.905413333
Mbtps2	chrX:153985753-154036647	3.554283333	7.922076667
Slc7a6	chr8:108692774-108722604	3.552936667	7.280663333
Tnfrsf22	chr7:150822629-150835543	3.552306667	1.626109333
Ap1f	chr6:87578422-87622162	3.550396667	1.447656667
Mgmt	chr7:144086293-144319871	3.550266667	0
Gm16897	chr1:196781952-196803153	3.549183333	2.322626667
Car13	chr3:14641726-14663002	3.548576667	10.53185
Rassf5	chr1:133072986-133141755	3.54849	5.37883
Lysmd4	chr7:74367429-74373354	3.542323333	4.391393333
Mblac1	chr5:138635541-138636849	3.538410667	2.797510333

Ttf2	chr3:100742782-100773586	3.538145667	3.281403333
Cbx2	chr11:118884342-118892584	3.537876667	15.67153333
St3gal2	chr8:113443764-113496397	3.536916667	14.13563333
Gm8801	chr17:36084098-36090262	3.53619	4.91307
Crebl2	chr6:134780216-134807901	3.53604	0.872199833
Vopp1	chr6:57702257-57775119	3.534946667	11.05891333
Arhgef4	chr1:34858566-34869599	3.534806667	8.899006667
Grik5	chr7:25794869-25857388	3.534386667	6.89391
Zxdb	chrX:91969907-91975530	3.533123333	2.203373333
Rcl1	chr19:29175864-29218333	3.531473333	0.912864
Pik3r2	chr8:73292079-73300611	3.530686667	8.83005
Cxcl1	chr5:91320270-91322141	3.529206667	16.02441
D17H6S53E	chr17:35263346-35265800	3.52898	1.844578
Cdk17	chr10:92623620-92704087	3.526933333	10.15858667
Fam126a	chr5:23466753-23536501	3.52523	4.67607
Acer3	chr7:105362169-105458037	3.524243333	3.34392
Eme2	chr17:25029096-25032032	3.522903333	4.866896333
Prdx4	chrX:151758462-151772997	3.522214333	12.70659333
Def8	chr8:125966855-125987799	3.521902333	7.0143
2810408M09Rik	chr2:165315611-165318814	3.52162	2.464786667
F2	chr2:91465476-91476571	3.521136667	0.461108
Trip6	chr5:137751126-137755469	3.51982	3.799333333
Cep192	chr18:67959760-68044824	3.51918	7.239363333
Mrpl38	chr11:115993130-116000182	3.51624	4.251023333
Osbpl7	chr11:96912133-96930218	3.512213333	12.55194667
Slc6a17	chr3:107270465-107320936	3.511136667	13.43723333
Sdc2	chr15:32850477-32964476	3.509666667	10.64095
Pgp	chr17:24607417-24608541	3.505846667	5.42633
Hdac10	chr15:88953732-88959130	3.504856667	3.488746667
Manea	chr4:26251652-26273799	3.50162	4.99894
Mtap1s	chr8:73429872-73441428	3.499472333	4.98452
Pdzd7	chr19:45101396-45120262	3.498303333	5.484173333
Pcdhb20	chr18:37663917-37667314	3.497482333	8.823196667
Ggta1	chr2:35255698-35316945	3.490721	1.060929667
Tdp1	chr12:101122724-101193426	3.490033667	3.753682667
Cerk	chr15:85969530-86016571	3.489826667	10.54826
Cep152	chr2:125388823-125450849	3.489776	3.22016
Gm3383	chr14:5671163-5681081	3.488836667	0.677992667
Tpst1	chr5:130549195-130611602	3.48833	4.039263
Ttpal	chr2:163428049-163444749	3.487336667	8.243213333
Lats2	chr14:58308498-58364960	3.487126667	1.999696667
C030048B08Rik	chr5:3583977-3596547	3.483143333	6.298346667
2310061C15Rik	chr8:119412584-119445336	3.481365	7.066596667
Atad2	chr15:57925601-57966637	3.478333333	2.795202333
Slc30a4	chr2:122506974-122528399	3.469906667	8.906296667
Hs6st2	chrX:48740388-49034779	3.469646667	0.0095341
Ptges	chr2:30744990-30758817	3.469053333	6.39502
A930017M01Rik	chr15:44712939-44716289	3.467915333	0.0107124
lfit2	chr19:34625183-34651024	3.463598633	0.260886667
Gm6249	chr7:143859637-143902287	3.461653333	0
Nrg4	chr9:55068028-55131432	3.461456667	1.141669667
Akap17b	chrX:34148177-34185409	3.46094	9.83033

Cyba	chr8:124948670-124956840	3.460848667	22.7748
Zfp69	chr4:120602741-120624306	3.459586667	0.602303467
Tspan32	chr7:150190950-150205390	3.459386667	1.203676667
Zfp661	chr2:127401268-127410413	3.459142	4.690743333
A630020A06	chr15:3946038-3965858	3.458433333	0
Slc39a3	chr10:80491284-80496657	3.457143667	3.197405333
E130307A14Rik	chr10:39341216-39451813	3.45522	6.104656667
Dus1l	chr11:120650515-120657709	3.454661	10.36871333
Lace1	chr10:42032390-42198371	3.453049333	1.459073333
Birc5	chr11:117710550-117717057	3.452315	0.938037333
Tnfaip8l1	chr17:56301913-56313378	3.451639	12.84796
Ephx3	chr17:32320714-32326408	3.45065	13.90988333
Abhd1	chr5:31252438-31257468	3.447400569	5.565970082
Snx21	chr2:164611520-164618270	3.446119667	10.93088233
Dbp	chr7:52960616-52965573	3.445536667	3.609224333
Olf996	chr2:85419371-85420439	3.44251	0.039214667
Zfp763	chr17:33153808-33170326	3.44183	10.75061567
D14Ertd668e	chr14:59966243-59984327	3.441026667	2.976238667
1700008J07Rik	chr7:134653951-134656383	3.440373333	2.747433333
Sfrp5	chr19:42272460-42276742	3.440045333	0.258768667
Gm14420	chr2:177249446-177263899	3.438796667	1.179024667
Actr5	chr2:158450648-158464947	3.437326667	0.346123
Hsd11b1	chr1:195047834-195090239	3.435913333	7.726376667
Prkch	chr12:74686027-74879171	3.434903333	8.891996667
Fgfr1	chr5:109123247-109135969	3.433733333	16.74276667
Tcf7	chr11:52066105-52095752	3.430193333	11.27079333
Stat5b	chr11:100642044-100711899	3.429066667	3.35036
Thap1	chr8:27268640-27274623	3.424946667	4.94854
Dnajc12	chr10:62845190-62871588	3.423333333	11.70299667
Zfp595	chr13:67413933-67433496	3.423226667	0.4613834
2610020H08Rik	chr7:126937643-126992455	3.422206667	3.023444
Kdelc1	chr1:44163390-44175618	3.42113	7.0695
Manba	chr3:135148574-135234367	3.420836667	6.10542
Creb3l4	chr3:90041421-90047434	3.420463	3.790663333
Fan1	chr7:71491643-71518981	3.420356667	2.143369
Foxred1	chr9:35011805-35018510	3.418699333	7.13988
Sat2	chr11:69435610-69437371	3.418636333	6.75988
Rgs19	chr2:181423127-181428629	3.416623333	11.30210133
Gm10516	chr1:193960779-193974907	3.41593	1.496843667
Ccdc138	chr10:57960684-58038992	3.413435	3.73634
Rfxank	chr8:72654704-72663096	3.410586667	5.947076667
Zfp11	chr5:130160469-130175963	3.40379	1.814999333
Gm5176	chr10:110937843-110938401	3.399884	0.664602667
B3gntl1	chr11:121477521-121534465	3.399043333	6.577056667
Sirt5	chr13:43466084-43490572	3.395242667	7.949203333
2610019F03Rik	chr8:13952007-13974777	3.394925667	4.933320333
Ttc30a1	chr2:75817162-75820024	3.393793333	5.296396667
Ncrna00085	chr17:17967938-17976035	3.39299	1.996113333
Zfp367	chr13:64234364-64254507	3.392323333	1.593514667
Ubiad1	chr4:147808605-147818860	3.392001	8.566
Chid1	chr7:148679034-148725756	3.391031333	5.060923333
Cftr	chr6:18120686-18272769	3.389696667	2.327036667

Car12	chr9:66561492-66614652	3.389219667	13.40164
Arhgef3	chr14:28051224-28217090	3.38695	3.5029
Mreg	chr1:72205806-72258881	3.385336667	5.735262333
Ctu2	chr8:125000042-125006992	3.38435	2.057514333
Sv2c	chr13:96729397-96902532	3.382056667	3.037216667
Tubb3	chr8:125935463-125945910	3.381838333	13.5528
Plin3	chr17:56418384-56429934	3.379984667	4.000603333
Fgd3	chr13:49358478-49404577	3.377706667	1.259639333
	8-Mar chr10:126493105-126497240	3.376543333	2.523273333
Zfp160	chr17:21145904-21165820	3.375823333	8.081076667
Pnp2	chr14:51575815-51584424	3.375531333	4.686667
Bahd1	chr2:118727350-118750260	3.374833333	5.739326667
Nle1	chr11:82714269-82721897	3.373253333	0.547871
Pelo	chr13:115878562-115880366	3.370782	7.905943333
Lce3a	chr3:92729208-92730152	3.366092333	12.72884
Trub1	chr19:57527395-57565495	3.36543	2.91904
Pdp1	chr4:11885331-11893597	3.35727	4.33595
Mfap4	chr11:61298945-61302206	3.357003	3.87561
Mboat7	chr7:3629390-3645127	3.354646667	5.69725
Mical2	chr7:119369349-119498708	3.35431	17.63406667
Herc6	chr6:57530985-57615130	3.354016667	0.684334
Wdr34	chr2:29887077-29904399	3.35182	19.64453667
2210408F21Rik	chr6:31170350-31287394	3.34904	6.13415
Zfp959	chr17:56031515-56038353	3.347913333	1.4463932
Heph11	chr9:14856284-14916552	3.34662	0.038915333
Urb2	chr8:126547372-126572404	3.34576	6.70368
2010305A19Rik	chr4:108000756-108013323	3.340479667	0.807257233
Gm88	chr17:46391113-46394265	3.339744767	0.919031333
Wdr5b	chr16:36041275-36043060	3.339365333	2.104960667
Zfp623	chr15:75771381-75779830	3.3386	3.990336667
1810049H13Rik	chr11:120317917-120319377	3.338153333	3.305381667
Adm	chr7:117771182-117773333	3.336016667	6.1284
Gm4724	chr2:175147334-175163713	3.335143333	1.341873667
Adck4	chr7:28018031-28042968	3.332972667	10.08871667
G2e3	chr12:52449216-52477973	3.33297	5.849863333
Harbi1	chr2:91551106-91561723	3.332356667	10.54267667
3110001I22Rik	chr16:13672112-13678478	3.331267	7.080683333
Phgdh	chr3:98117093-98143892	3.3283	3.060496667
Sema3c	chr5:17080633-17236085	3.326233333	4.710572333
Ebf1	chr11:44431635-44818674	3.325656667	0.750361667
Tmco6	chr18:36894723-36902045	3.324403333	2.798823333
Nthl1	chr17:24769626-24775783	3.323503333	2.294864667
Entpd3	chr9:120448935-120477443	3.322766667	7.818429333
Sgsh	chr11:119204802-119216824	3.322723333	4.071476667
Slc39a14	chr14:70703273-70751231	3.321935667	3.32598
Nudt18	chr14:70977653-70982378	3.321934333	2.191054
AW112010	chr19:11122101-11125056	3.321463333	3.193303333
2810422O20Rik	chr1:165925075-165927374	3.320943333	7.731125
Tmem149	chr7:31350445-31352981	3.319763333	7.08055
Cacna1a	chr8:86939262-87164148	3.31973	7.713076667
Cebpa	chr7:35904311-35906951	3.317879667	2.155879833
Ncapd2	chr6:125118024-125141604	3.317686667	3.52696

Gm8994	chr6:136277556-136280001	3.316699333	4.567476667
Zfp157	chr5:138882703-138901922	3.312866667	5.119836667
Neurl3	chr1:36321446-36330270	3.311266667	6.462273333
Erbp2	chr11:98273797-98299030	3.31102	11.67401333
Lysmd2	chr9:75473538-75485580	3.309474333	8.09363
Pldn	chr2:122564240-122575223	3.30889	5.136536667
Fam46c	chr3:100275458-100293115	3.307333333	12.62363667
Ccng2	chr5:93696598-93705257	3.304556667	14.24747333
Ralgs1	chr2:32992492-33226998	3.304553333	8.936793333
Wls	chr3:159502658-159598139	3.302766667	5.274716667
Gpr135	chr12:73170604-73171978	3.302669333	0.578056667
Gpsm2	chr3:108481555-108525217	3.302523333	4.85011
Asrgl1	chr19:9186208-9210056	3.302175	9.498426667
Ly75	chr2:60131816-60221288	3.302146667	8.852803333
Tbc1d10a	chr11:4086835-4115508	3.301750667	4.802213333
Sh2d5	chr4:137806325-137816883	3.301011033	2.585106667
9530027J09Rik	chrX:45629968-45638603	3.295532333	4.33E-09
Rrp12	chr19:41937340-41970643	3.295306667	2.683506667
3830408C21Rik	chr13:107812649-107823598	3.29055	1.86448
Ahi1	chr10:20672352-20800235	3.289773333	12.97383667
Armcx5	chrX:132277230-132281865	3.287	1.405016667
Gpr21	chr2:37372145-37374801	3.286863333	5.034206667
Wdr81	chr11:75254444-75268219	3.284156667	3.540503333
Gm6710	chr2:175018480-175032418	3.283686667	0.905253
Serpinb10-ps	chr1:109425579-109445848	3.281297667	6.531173333
Dolk	chr2:30139748-30141874	3.280768667	8.48574
Slc26a2	chr18:61356507-61371250	3.27521	6.708546667
Zfp758	chr17:22498419-22514248	3.27304	3.727028333
Gm8773	chr5:5573798-5576203	3.272116667	0
Ptges2	chr2:32251409-32258260	3.271220333	3.584175333
5031434C07Rik	chr6:112236787-112240313	3.267770667	0.389163333
Tap1	chr17:34324500-34334170	3.26406	0.922537
Mdga2	chr12:67567045-68323536	3.26181	1.435098333
Rassf8	chr6:145756902-145766104	3.259474633	0.681890667
Igsf6	chr7:128207580-128218044	3.257916667	3.892976333
Rhbdf1	chr11:32109584-32122293	3.257756667	11.00991
Gm10509	chr17:21827178-21829180	3.257501667	0.707866
Klf16	chr10:80029865-80040041	3.256676667	3.131906667
Hist1h4i	chr13:22132684-22133221	3.25638	8.662891667
Vdr	chr15:97684857-97738727	3.255681333	0.6783614
E2f8	chr7:56121798-56136411	3.255320667	1.570121
Slc35d2	chr13:64197617-64230638	3.25444	3.05981
Spata1	chr3:146120166-146162717	3.252298333	3.726303333
Acad8	chr9:26781725-26807134	3.251706667	1.999110667
Gm14477	chrX:10876446-10876764	3.24952	0.067964667
C230091D08Rik	chr7:66563293-66579519	3.248053333	4.835063333
Ankrd35	chr3:96474053-96494957	3.247846667	6.101163333
Pter	chr2:12845667-12925080	3.246779	0.453287633
Tmem81	chr1:134402806-134405216	3.245498667	2.683494333
Mtss1l	chr8:113245383-113265300	3.241783333	15.6087
2610204G22Rik	chr4:155135300-155137669	3.240983333	1.017283333
Mpst	chr15:78237141-78244445	3.239573333	3.423076667

Srgap3	chr6:112667965-112897260	3.238963333	3.911936
Tmc8	chr11:117643610-117654451	3.238103667	1.962875
Etv1	chr12:39506844-39594802	3.236246667	186.982
Oas2	chr5:121180341-121199857	3.23554	1.551648
Hist1h3i	chr13:21874783-21875266	3.232166667	3.462591667
Trnp1	chr4:133047014-133054465	3.23193	8.342956667
Commd9	chr2:101726418-101741796	3.230636667	5.010158333
Gm6710	chr2:175868376-175882314	3.230506667	0.910122
Mrpl45	chr11:97177029-97191234	3.228931	1.471833
Plk4	chr3:40603872-40620805	3.22815	3.591476667
Sema5b	chr16:35541447-35664344	3.22769	0
Cbln3	chr14:56497756-56503093	3.22673	0.0454657
Tmem101	chr11:102013860-102017721	3.2266	12.03682
1700019G17Rik	chr6:85849043-85854932	3.22645	2.430443333
F930015N05Rik	chr11:64246636-64250176	3.223993333	1.172906333
Tmem95	chr11:69690185-69691520	3.221778333	2.075573333
Cd4	chr6:124814710-124838227	3.221440967	8.284753333
Trim46	chr3:89038098-89049819	3.220810333	2.001097
Tbc1d12	chr19:38911068-38994413	3.21853	2.618313333
Dusp6	chr10:98725864-98730123	3.217923333	16.33673333
Shisa4	chr1:137268032-137271640	3.21693	0.137325
Zfp213	chr17:23693733-23701193	3.210326667	1.445160333
1700113I22Rik	chr11:101280127-101286647	3.20859	8.075566667
Samd12	chr15:53293355-53733991	3.204498667	9.88862
Anapc10	chr8:82235718-82301220	3.202423333	8.304236667
Hist1h4n	chr13:21923715-21924027	3.201193333	4.856923333
Azi1	chr11:119925743-119948141	3.200788333	2.68627
Anxa3	chr5:97222403-97274987	3.20016	14.60662333
Pet112l	chr3:85378050-85458392	3.199833333	3.55162
Tns1	chr1:73956804-74171021	3.195483333	2.351106333
Trim14	chr4:46519718-46549016	3.19542	9.747666667
Gm11961	chr11:4520277-4530014	3.19512	1.234876667
2410066E13Rik	chr6:54631765-54650400	3.19389	2.956253333
Cybas3	chr19:10652212-10664320	3.19359	10.0325
Tmem125	chr4:118213545-118216331	3.19096	5.129213333
Vars2	chr17:35792579-35804537	3.18503	4.186207333
Adck5	chr15:76406788-76426241	3.182692667	8.8442
B930059L03Rik	chr12:111829583-111830889	3.182575333	0
lfitm7	chr16:13982891-13984714	3.181279667	7.933555667
Lin7b	chr7:52623260-52625934	3.18067	1.064281333
Hist1h2ab	chr13:23842956-23843462	3.1788	1.737173333
Pmf1	chr3:88198064-88214238	3.177663333	2.80257
Ubac2	chr14:122277827-122420257	3.17751	12.392
Sec1	chr7:52933056-52934928	3.17672	0.903256
Zfp948	chr17:21704009-21725649	3.176466667	8.015623333
Erc2	chr7:19967387-19981041	3.174073333	4.611603333
Ufsp1	chr5:137735896-137736892	3.173155333	8.002076667
Rasgef1b	chr5:99646438-99681946	3.172916667	3.685263333
Xkr4	chr1:3204562-3661579	3.172163333	1.864073333
Ntf5	chr7:52669064-52672549	3.170653333	0.048061
Atp10d	chr5:72594567-72690010	3.16984	6.050826667
Asb6	chr2:30678617-30683820	3.166136667	5.17064

Zfp27	chr7:30678355-30691123	3.165903333	2.111729333
Galnt4	chr10:98570768-98575881	3.164703333	7.011465667
Ube2c	chr2:164595428-164598402	3.1622255	8.285866667
Lrrc24	chr15:76545705-76552603	3.162187333	1.416696
Naa11	chr5:97811227-97821349	3.162163667	0.341447233
Bpifc	chr10:85422435-85474605	3.160302333	6.033875333
Yif1a	chr19:5088537-5092879	3.159246667	6.46643
Rin3	chr12:103521283-103629064	3.158113333	2.681819
Gmnn	chr13:24843713-24853806	3.157846667	3.93453
Zfp395	chr14:65977512-66017767	3.156003333	9.794596667
Tusc1	chr4:93000838-93002202	3.155363333	1.340353333
	9-Sep chr10:58604374-58684595	3.15525	8.799336667
Cdan1	chr2:120541889-120557253	3.154803333	2.148978667
Tmem168	chr6:13530688-13558063	3.15384	2.407769
Tcp10a	chr17:7529008-7550209	3.151883333	0.811186333
Gm13251	chr4:145728598-145749009	3.151866667	1.683914
Tpcn2	chr7:152439827-152469832	3.149943333	1.506866667
Gm5424	chr10:61533769-61535319	3.147783333	7.13592
Nfkb2	chr19:46379226-46386580	3.147656667	2.887276667
Mogs	chr6:83065499-83068892	3.1462	7.735826667
Tgfbr2	chr9:115996812-116084481	3.145735333	2.901146667
Coil	chr11:88835248-88852927	3.144538333	2.457199667
Amd2	chr10:40007270-40021992	3.139769238	6.4441111
Gpr160	chr3:30754871-30796114	3.138863333	2.104949333
Txnrd2	chr16:18426509-18479166	3.136696667	2.195677333
Sema3e	chr5:14025275-14256689	3.134573333	5.619906667
Map3k6	chr4:132796732-132808843	3.132743333	3.986203333
Engase	chr11:118338273-118350512	3.12841	1.515536667
Zfp526	chr7:26006469-26012524	3.126663333	2.040493333
Trp73	chr4:153430357-153514317	3.125443333	0.628596067
Lrig1	chr6:94554522-94650139	3.12342	6.645016667
Kprp	chr3:92626995-92631169	3.122513	0.158344
Gm3264	chr14:4534030-4622491	3.12207	0.982733333
Catsper4	chr4:133767882-133783298	3.120866667	2.288403333
Stat5a	chr11:100720664-100746483	3.120486667	2.140116
Blvrb	chr7:28232996-28251000	3.119453333	5.569043667
D2Wsu81e	chr2:30028966-30033979	3.11926	4.83445
Fsd1l	chr4:53644342-53719881	3.118776667	3.607916667
Sp100	chr1:87546624-87606023	3.11628	0.902053333
Gm14483	chrX:10885885-10886386	3.114520931	0.189529867
B3gat2	chr1:23768764-23854697	3.111361	4.91776
Orm3	chr4:63017195-63020545	3.109180333	0.179322667
Igf2bp3	chr6:49035216-49164953	3.105211667	3.62407
Rgs6	chr12:83718024-84259799	3.103498667	4.480806667
Fbxl6	chr15:76366157-76369176	3.101888667	8.71323
Bace2	chr16:97578334-97660619	3.101671	6.840926667
E230016M11Rik	chr6:66986592-67030646	3.100848	1.074666667
Nol12	chr15:78765362-78772340	3.100279	3.921773333
Cnga4	chr7:112553081-112557252	3.09994	0.437216667
Jag1	chr2:136907186-136942256	3.097253333	10.02698333
Cntfr	chr4:41604528-41644123	3.096266667	0
Npff	chr15:102354269-102355373	3.095486667	12.78934333

Carns1	chr19:4164323-4175479	3.094448333	9.328576667
Clpb	chr7:108812281-108938682	3.094016667	3.723706667
Dcaf4	chr12:84861415-84882942	3.093996667	5.570603333
Zfp772	chr7:7154832-7162709	3.093753333	5.58242
Depdc7	chr2:104561943-104582958	3.089209333	7.180036667
Cdk6	chr5:3344311-3522225	3.086039667	12.97692667
Pmaip1	chr18:66618257-66625212	3.08526	4.539673333
Fcer1g	chr1:173159702-173164480	3.082546667	3.232296667
Acap3	chr4:155265983-155281360	3.08029	13.9817
Cenpo	chr12:4211671-4234294	3.078521333	7.232476667
Gtf3c4	chr2:28677819-28695880	3.076246667	2.504566667
2610203C22Rik	chr1:9550913-9621173	3.076073333	3.091624667
Rbms3	chr9:116481863-117539031	3.075193333	6.654086667
Arrdc4	chr7:75881879-75894124	3.075043333	10.00164
Atpaf1	chr4:115457418-115484919	3.073816667	3.286157667
Entpd1	chr19:40734283-40816092	3.072953333	2.361843333
Dhx34	chr7:16782569-16807381	3.07249	3.874076667
Cdkl3	chr11:51817722-51898169	3.07166	5.122366667
Zdhhc12	chr2:29946463-29949155	3.0713	7.032256667
Zfp518b	chr5:39059722-39076065	3.070399333	7.123433333
Kcnj6	chr16:94970289-95219303	3.070073333	0.457729667
Prickle1	chr15:93329544-93426322	3.067853333	2.505416667
Phf21b	chr15:84615805-84686559	3.066186667	1.625337333
AW011738	chr4:155577392-155580137	3.065709667	2.531317567
Klhl26	chr8:72974126-73000842	3.064953333	3.628763333
Amigo3	chr9:107955489-107958032	3.064889	2.922228
Gpat2	chr2:127250934-127261828	3.064493333	0.226354333
Amph	chr13:19040239-19242784	3.063796667	4.478266667
Ttll12	chr15:83405523-83425587	3.058696667	10.92591333
Efhb	chr17:53538213-53602646	3.058193333	1.585750333
Ttc24	chr3:87873331-87882226	3.057722	0
Man1c1	chr4:134117604-134260205	3.057636667	3.2359
Invs	chr4:48292673-48444825	3.05735	9.710363333
Nxt1	chr2:148498350-148501762	3.05652	8.77499
Setdb2	chr14:60020847-60059714	3.05521	6.457106667
Hspa1l	chr17:35109647-35116173	3.05422	3.37867
Gm6623	chr17:36315721-36318309	3.05331	1.835756667
4930405P13Rik	chr11:88767241-88797375	3.052353333	0.046744667
Pmp22	chr11:62945011-62973048	3.050343	3.375836667
Zbtb49	chr5:38591282-38611667	3.050073333	1.971538333
Snx29	chr16:11322996-11755566	3.04804	2.260774
Tk1	chr11:117676832-117687328	3.047813333	1.550163333
Gcnt3	chr9:69879302-69885895	3.047586667	3.029183333
Selenbp2	chr3:94497494-94508328	3.047558	12.67886667
Snx11	chr11:96628862-96638869	3.043336667	5.558083333
Slc5a9	chr4:111547981-111575401	3.040924333	1.157812
Abhd15	chr11:77328618-77334130	3.04079	4.31442
Tnf	chr17:35336335-35338941	3.03809	7.366066667
Ppcs	chr4:119091137-119095025	3.036462333	4.551983333
Alkbh4	chr5:136614650-136617484	3.033673333	0.355211667
Wnt9a	chr11:59120431-59147054	3.03356	1.999363
Rilpl2	chr5:124913273-124928244	3.033509667	2.25582

Slit3	chr11:34934957-35522009	3.032477667	0.564017333
4933432I03Rik	chr14:103386628-103433020	3.031831667	0
Il1rl2	chr1:40381471-40422316	3.03122	8.479303333
Rpp14	chr14:8912826-8924360	3.030906667	9.657543333
Glb1	chr9:114310236-114383495	3.028614	9.521176667
Phlpp2	chr8:112392502-112468571	3.028110667	3.22236
Rttm	chr18:89141181-89300406	3.028026667	4.80897
Akap7	chr10:24888895-25018969	3.02625	6.409923333
Cntrob	chr11:69112997-69137375	3.026246667	6.557056667
Bcl2l12	chr7:52246591-52252949	3.025266667	4.77448
Unc93b1	chr19:3935185-3949340	3.024906667	5.642543333
Pmel	chr10:128143313-128157294	3.023427667	0.321070667
Hace1	chr10:45297634-45432151	3.022673333	10.50531333
Cdkn3	chr14:47380215-47391200	3.021353667	0.099803333
9130019O22Rik	chr7:134525773-134530680	3.019156667	1.743964
Zfp599	chr9:22051873-22064339	3.018244333	2.82964
Ubac1	chr2:25852477-25877280	3.016456667	5.44001
Trmt11	chr10:30254030-30320555	3.016118	7.64395
Stra6	chr9:57976894-58001804	3.016011367	5.302003333
Syt14	chr1:194723500-194861892	3.014303333	3.813676667
Zfp94	chr7:25086722-25101685	3.013442	0.683133333
Coro2a	chr4:46549808-46614801	3.013335333	3.273958667
Micalcl	chr7:119511821-119556618	3.009741667	26.3852
Plekho1	chr3:95792762-95799762	3.00894	27.36441667
Il17rc	chr6:113421448-113433157	3.007906667	5.63333
Gm14484	chrX:10889059-10889553	3.00702	0.068633267
Serpinb11	chr1:109258890-109277052	3.00672	8.697906667
Ccr9	chr9:123676328-123692575	3.006349667	0.745506667
Zfp945	chr17:22983663-23004101	3.006193333	3.286926667
AI450353	chr11:83106931-83108431	3.00585	2.606126667
Ercc4	chr16:13109828-13152102	3.00397	5.241883333
Apoo	chrX:91612448-91662431	3.00235	4.52991
9430008C03Rik	chr2:158179435-158187258	3.000476667	4.273736333
Trp53i13	chr11:77321600-77326775	3.00022	2.248676667
Tmem177	chr1:121804477-121809745	2.998130333	0.503257767
Sergef	chr7:53698528-53895177	2.997776333	0.969754333
Palld	chr8:63993819-64381487	2.997472667	6.30463
Muc4	chr16:32735971-32782476	2.994807667	24.1291047
Gm11202	chr11:79420580-79436665	2.994279333	0.421195567
Plekhg1	chr10:6379238-6606164	2.993513333	2.488213333
Tmem121	chr12:114424113-114427733	2.992628667	0.795555333
2610002I17Rik	chr9:110207695-110224606	2.992188333	0.44162
Abat	chr16:8513521-8621660	2.991724667	1.123239967
Polrmt	chr10:79198869-79209326	2.990063333	2.310266667
Enpp3	chr10:24493619-24556001	2.98786	7.020916667
Fam166b	chr4:43439891-43442006	2.984756333	2.499118
Hps6	chr19:46077967-46080663	2.983743333	1.8039685
Nphp3	chr9:103904873-103946141	2.983033333	3.803223333
Pard6g	chr18:80243633-80316379	2.98055	13.38774667
Reep4	chr14:70945057-70948742	2.97835	15.4379
Sars2	chr7:29526986-29538898	2.976998667	5.984198
Mef2b	chr8:72676676-72691387	2.9764	4.448029

Ubxn10	chr4:138274440-138281166	2.97454	4.91807
Dhrs11	chr11:84634229-84642505	2.971503333	2.10317
Itpa	chr2:130493576-130507350	2.970883333	12.81298333
Ly6k	chr15:74627303-74630398	2.968053333	3.320433333
Lyz1	chr10:116724850-116729924	2.96773	3.362186567
Arg1	chr10:24635012-24647276	2.9676	11.51521133
Nnt	chr13:120123123-120197945	2.967426667	5.899803333
Cnksr3	chr10:3134303-3227479	2.965565333	1.186931
Acpp	chr9:104190569-104240052	2.96514	4.25914
Tfap2c	chr2:172375092-172384121	2.96391	5.849603333
4930562C15Rik	chr16:4835415-4867691	2.963076667	2.580646667
Itgb3bp	chr4:99432092-99495809	2.962255667	1.54376
Aasdh	chr5:77304959-77334539	2.961966	2.7893
Dhx58	chr11:100556197-100565585	2.96182	0.517009333
Ereg	chr5:91503642-91522675	2.960530333	0.503849333
Acot6	chr12:85441603-85450733	2.960043333	0.970381967
Tmem194	chr10:127114120-127138103	2.957663333	3.791206667
Nr6a1	chr2:38578893-38781981	2.956736667	4.705223333
Rfc4	chr16:23114020-23127803	2.955953333	8.12744
Naf1	chr8:69384115-69414463	2.954976667	1.948113333
Bcl3	chr7:20393810-20408104	2.951793333	1.771697667
Specc1	chr11:61890598-62036515	2.9504	5.05284
H6pd	chr4:149353589-149383132	2.949323333	6.055226667
Fam35a	chr14:35050220-35123689	2.948836667	2.148095667
BC057079	chr4:87740533-88056915	2.9482	7.08795
Slc15a5	chr6:137932110-138028437	2.947053333	1.862790667
Clstn2	chr9:97344813-97933586	2.946263333	6.338916667
Zbtb17	chr4:141000587-141023852	2.945896667	5.609863333
A830018L16Rik	chr1:11404185-11965983	2.945413333	0.633472333
Enpp1	chr10:24361216-24431908	2.94156	2.548691667
Fam196a	chr7:142073590-142130113	2.93865	1.119336
Sertad3	chr7:28258858-28262383	2.937220667	3.763956333
Mcph1	chr8:18595172-18803188	2.933093333	4.24798
Nup54	chr5:92844565-92864225	2.93294	4.563773333
Prss32	chr17:23990738-23996743	2.932213333	12.46995667
Procr	chr2:155576952-155581214	2.930679667	2.179157
Med26	chr8:75018457-75072209	2.929796667	1.262596333
Gm10560	chr4:155395753-155397933	2.929511667	0.74425
Tirap	chr9:34991975-35007876	2.928706667	9.724423333
Gsto2	chr19:47940034-47960795	2.927126667	1.94822
Tgfb1	chr7:26472020-26490015	2.925140333	1.893956667
Bmf	chr2:118354492-118375414	2.92494	10.93836267
Plekhh2	chr17:84911234-85021482	2.92437	8.739896667
Kif20b	chr19:34996847-35050221	2.923506667	1.770743333
Lrrtm2	chr18:35368662-35374678	2.92344	4.55344
Csgalnact1	chr8:70880679-71259045	2.92271	10.90946333
Fxn	chr19:24335942-24355076	2.922057333	8.845416667
Supt3h	chr17:44914119-45256233	2.92031	18.65532667
AF251705	chr11:114858082-114863194	2.918477133	0.496905
2810408A11Rik	chr11:69710859-69714488	2.917821	3.063706667
AU016765	chr17:64863428-64904930	2.917353333	0
Samd5	chr10:9347056-9395006	2.917176333	2.996583333

Klhl36	chr8:122386204-122400889	2.916086667	1.888443
E130003G02Rik	chr2:25146739-25154448	2.915200667	1.7556
Copz2	chr11:96711189-96722516	2.9136	0.085869
Zfp109	chr7:25012813-25022617	2.913365333	2.60614
Lmln	chr16:33062606-33125745	2.912813333	4.268196667
Afmid	chr11:117687232-117701222	2.909334	4.640063333
P2rx3	chr2:84836708-84875991	2.907806667	1.158743333
Lgals6	chr7:29619200-29626652	2.907679401	9.71694
Zfp54	chr17:21560190-21572348	2.906686667	2.781533333
Rpusd4	chr9:35075465-35083542	2.903728333	1.477457667
Cr2	chr1:196963004-197002909	2.90302	1.309116033
Rbak	chr5:143933867-143942422	2.898646667	10.04088667
Mslnl	chr17:25872984-25885275	2.897926667	7.726416667
Eid2	chr7:29052899-29054187	2.897533333	6.5301
Adck1	chr12:89599244-89700162	2.897473333	4.073653333
Gm20597	chr10:53218248-53238795	2.896341	0.0063752
F3	chr3:121426454-121437970	2.896204667	10.14066667
Casp1	chr9:5298516-5307281	2.895646	14.45621
Pram1	chr17:33775000-33782651	2.894756667	6.920487667
Taf5	chr19:47142237-47157969	2.891374333	10.30414333
Zscan12	chr13:21454688-21464171	2.889656667	3.111628
Rbks	chr5:31926811-31999983	2.888454333	3.408603333
Klk12	chr7:51024469-51028851	2.887634333	2.876473333
Rgag4	chrX:99261880-99266646	2.887386	6.295413333
2310046K01Rik	chr2:151822246-151834994	2.882814667	22.90661333
Tnfaip2	chr12:112680871-112693229	2.88146	7.150906667
Zfp580	chr7:5003133-5005325	2.877709333	2.20343
Leprel4	chr11:100270063-100276133	2.876889	9.257603333
Zfp804b	chr5:6769029-7344378	2.876016667	0.316413333
4930547C10Rik	chr4:52609145-52625035	2.875510667	0
6230427J02Rik	chr9:107886554-107888247	2.875177	1.601441667
Fgf11	chr11:69611703-69615127	2.87469	7.295716667
Sfxn5	chr6:85163044-85283416	2.874390333	3.086239667
Cib3	chr8:74728233-74736736	2.873919667	184.0224
B3gnt8	chr7:26412642-26414509	2.869196667	6.838342
Phf15	chr11:51626957-51670983	2.865756	1.973473333
Rps6kl1	chr12:86476545-86492214	2.864133333	0.057897
Rps6ka4	chr19:6903573-6915091	2.864006667	3.257303333
Defa-ps12	chr8:19210461-19212760	2.86283	0
Tctn2	chr5:125048757-125077658	2.862697333	7.506256667
Zfp619	chr7:46773135-46795785	2.862411	3.73563
Wrap53	chr11:69375255-69392826	2.862052667	1.867652
Pdss1	chr2:22751041-22795779	2.858926	2.784432333
Muc1	chr3:89032973-89037291	2.858666	16.25895433
Hist1h3f	chr13:23635920-23636923	2.85685	1.136503333
Pvrl1	chr9:43552658-43615544	2.855266667	8.369386667
Kcnh6	chr11:105869516-105895378	2.85137	11.54214667
E430018J23Rik	chr7:134534349-134537135	2.846631333	1.688255667
Ankrd39	chr1:36595017-36604046	2.846167	2.714727667
Cul7	chr17:46787286-46801313	2.844336667	4.3715
Arhgap10	chr8:79774264-80041806	2.844306667	2.263536333
Akr1c13	chr13:4190432-4204849	2.84343	2.533853267

Fancf	chr7:59115948-59117637	2.843266667	0.823345
Nr4a2	chr2:56959636-56976414	2.840746667	11.17231667
Gas1	chr13:60275765-60278896	2.84071	2.19127
Vmn1r43	chr6:89819454-89820523	2.838923333	0
Gpam	chr19:55144223-55173937	2.838616667	2.976217
1700049G17Rik	chr7:28692410-28714449	2.83794	6.094283333
Phlda3	chr1:137662661-137665711	2.837702	5.991816667
Rhox4a	chrX:34805369-34810130	2.837573667	0.082501667
Aqp11	chr7:104874888-104886757	2.836402667	2.166669
Dhodh	chr8:112117147-112132573	2.835766667	2.037608
Gdap1	chr1:17135453-17154351	2.83309	6.76019
Dnajc30	chr5:135540075-135541235	2.828814	9.718233333
1500001M20Rik	chr6:114954398-114987892	2.827266	1.959676667
Apba1	chr19:23833365-24024087	2.826872933	3.867733333
B230217O12Rik	chr19:57397686-57435389	2.825973333	1.502004567
Cad	chr5:31357183-31380852	2.824573333	1.880356667
Slc8a1	chr17:81772444-82137717	2.822858667	2.438390333
Sdc3	chr4:130348451-130382233	2.821946667	4.75679
Lig4	chr8:9970019-9976323	2.820863333	4.222783333
Rgs14	chr13:55471092-55486048	2.818363333	1.134615667
Lrrc14b	chr13:74497029-74501448	2.816196667	0.560523667
Gm4349	chr3:95231270-95235007	2.81278	2.26144
E4f1	chr17:24580723-24592256	2.81239	6.497656667
Slc16a4	chr3:107094209-107115033	2.811313333	2.050626667
Fuk	chr8:113406362-113426359	2.809733333	2.664613333
Itgav	chr2:83564553-83647073	2.80624	8.63618
Galnt11	chr12:81619976-81704883	2.799243333	0.164349667
Abtb2	chr2:103406466-103558580	2.799080333	2.443487667
Nova2	chr7:19511236-19550668	2.797473333	2.728283667
Solh	chr17:26096500-26102450	2.79566	4.959533333
Pms2	chr5:144670869-144692625	2.792470333	2.638853667
Pusl1	chr4:155262968-155265871	2.792413334	4.291913333
Msto1	chr3:88713537-88717872	2.790846333	9.570349333
Scgb1a1	chr19:9158131-9162446	2.7896	0
2410016O06Rik	chr12:85291557-85293903	2.788432667	6.512283333
Pxmp4	chr2:154412779-154429409	2.786468667	14.45721333
Txnl4b	chr8:112089885-112097951	2.786170333	2.053469333
Gm3002	chr14:3920623-3936392	2.78503	2.168833333
Cyp27a1	chr1:74760147-74784464	2.784365333	1.288499333
Shisa9	chr16:11984205-12270997	2.783836667	11.95753333
Myo7b	chr18:32118887-32196585	2.782876667	0.248977333
5830418P13Rik	chr9:103325907-103363590	2.781046667	0.292891333
St8sia2	chr7:81084005-81158568	2.778886667	0.054366333
Stac	chr9:111463937-111592720	2.777543333	0.029187167
Ttc23	chr7:74792295-74871462	2.776436667	2.698716667
Rnf148	chr6:23603894-23605136	2.774440667	6.685653
Gm6994	chr14:77879289-77906675	2.774238333	0
Ccdc17	chr4:116269334-116272871	2.772336667	8.962446667
Nap1l2	chrX:100379397-100382003	2.77145	3.46057
Mettl2	chr11:104987738-105002460	2.767686667	4.777976333
Kif27	chr13:58388876-58456223	2.767446667	0.738931033
Homer3	chr8:72806897-72818260	2.76744	2.908217667

Pkhd1	chr1:20047859-20608138	2.7668	6.503956667
Alkbh2	chr5:114573942-114578185	2.765436667	2.7875161
Sh3gl2	chr4:84851359-85035283	2.765076667	7.2441
Gpr3	chr4:132765254-132768451	2.763836667	5.616833333
Ptprn2	chr12:117724192-118516640	2.76366	1.014815333
Micall2	chr5:140182646-140212287	2.763016667	7.600783333
Gm10639	chr9:78137734-78153332	2.762468	3.508496667
Snn	chr16:11066390-11075078	2.76189	10.20258333
Glmn	chr5:107977985-108026907	2.758726667	2.288497333
5430402013Rik	chr6:50516641-50544864	2.757876333	0.096806333
Smad7	chr18:75527018-75555588	2.75676	9.79105
Immp2l	chr12:41750676-43056573	2.754163333	6.984806667
Rasip1	chr7:52882906-52894462	2.751426667	2.24006
Slc46a3	chr5:148690016-148706378	2.746316667	2.879397
Tgds	chr14:118511132-118531987	2.743432667	6.13523
Polh	chr17:46308941-46339574	2.743033333	4.024806667
Nek11	chr9:105064796-105297617	2.739875333	2.893202767
Pou5f1	chr17:35642976-35647722	2.734587667	0.269265667
Fst	chr13:115242469-115248938	2.733748333	4.55942
Zfat	chr15:67915299-68090418	2.733712	1.312080667
Agbl4	chr4:110070395-111330115	2.732826667	0.603923
Vps18	chr2:119114477-119124189	2.732401	6.106166667
Zfp637	chr6:117791259-117795974	2.732203333	4.190706667
Plcxd1	chr5:110528987-110534971	2.731148	1.482588333
2200002K05Rik	chr9:15043488-15063857	2.730593333	2.213256
Rnase4	chr14:51710751-51725826	2.729166	15.47704667
Alpk1	chr3:127373227-127483445	2.727996667	2.180131667
Cks1b	chr3:89219393-89222213	2.727716333	7.62928
Atad5	chr11:79902901-79949293	2.72667	1.608409
Ankrd13d	chr19:4270179-4283137	2.726423333	4.616996333
Mpi	chr9:57392074-57400559	2.72453	2.609846667
Nav1	chr1:137331156-137481932	2.723863333	6.155173333
Slc25a40	chr5:8422849-8454793	2.723159333	5.11717
Tfeb	chr17:47873985-47929365	2.723065333	1.00221
Tsr2	chrX:147521636-147531086	2.72174	3.719833333
Taf1c	chr8:122121873-122129140	2.719553333	0.993074333
Slc37a3	chr6:39284769-39327706	2.719073333	6.947886667
Glr3	chr3:80647525-80717546	2.717116667	2.726236667
Frdm6	chr12:71926500-72003221	2.71565	4.749023333
Krtap13-1	chr16:88729106-88729856	2.71216	6.02611
4931414P19Rik	chr14:55202499-55224745	2.711551333	2.167440667
Stk17b	chr1:53812355-53842059	2.711076667	11.17414
2310057N15Rik	chr16:88773425-88774451	2.71	10.08068
Cnpy4	chr5:138628762-138635122	2.709436667	9.773
Top2a	chr11:98854260-98885503	2.70657	7.14491
Ttc26	chr6:38331523-38377647	2.70621	2.663585
Fam185a	chr5:20930720-20987942	2.704919333	13.20363333
Acot9	chrX:151697042-151732050	2.704139333	9.049483333
Trim47	chr11:115967063-115971549	2.702838333	2.588466667
Scfd2	chr5:74600840-74927774	2.701713333	1.86056
1700030K09Rik	chr8:74967778-74984440	2.700633333	2.42886
lck	chr9:77956998-78019916	2.700436667	6.955773333

G6b	chr17:35201381-35202541	2.70011	0
Gemin5	chr11:57933502-57982041	2.699273333	5.821486667
Parp11	chr6:127403740-127444257	2.698066333	3.66434
Cebpb	chr2:167514414-167515918	2.696986	1.023861667
Bfsp1	chr2:143652263-143688909	2.695892	2.654929
Fam158a	chr14:56200360-56204091	2.694782667	2.55359
E130309D14Rik	chr11:74433106-74455018	2.694052	0.316642667
Gramd4	chr15:85888124-85968066	2.693993333	1.609605
Dhrs13	chr11:77845814-77851366	2.691526667	3.33111
Eno4	chr19:59017914-59045911	2.690723333	1.636738233
Tril	chr6:53765461-53770819	2.689063333	7.068566667
Rgmb	chr17:15943216-15963550	2.68807	7.72688
Rnf125	chr18:21103125-21142349	2.686548667	2.689981667
Fbxl7	chr15:26470213-26825319	2.685946667	0.762219333
Ptprcap	chr19:4154645-4156710	2.685157667	13.935121
Nfatc2ip	chr7:133526367-133540251	2.682701	4.496037667
Pigy	chr6:57634732-57642072	2.68137	4.765186667
Lipt1	chr1:37929050-37933143	2.680598333	1.603908
Srpx2	chrX:130442964-130466989	2.679119	26.48126667
Chadl	chr15:81516596-81527717	2.67799	1.051696667
Zfp819	chr7:50862538-50873649	2.676736333	0
Hpse	chr5:101108504-101148702	2.676701567	0.600099
Epb4.1l3	chr17:69506149-69639327	2.675206667	5.36615
Wdr89	chr12:76731580-76770524	2.674353333	3.392323333
4930486F22Rik	chr10:85558598-85576330	2.6743	3.6623
Six2	chr17:86083607-86087594	2.673382333	2.97133
Ypel1	chr16:17070403-17086781	2.67008	11.78644667
Wipf3	chr6:54402876-54453762	2.66769	2.40031
Ttc22	chr4:106295053-106312792	2.665851667	12.15621667
Sp6	chr11:96874882-96886052	2.665553333	8.716706667
Fbxl22	chr9:66356265-66362400	2.66462	2.101451
Atxn7l2	chr3:108005172-108013852	2.664604333	3.030459667
Smarcd3	chr5:24098439-24107820	2.664059333	4.559043333
BC061194	chr2:18620648-18671232	2.662930667	0
4930419G24Rik	chr3:32923698-32987529	2.661773667	5.875828333
A130040M12Rik	chr13:62184506-62397849	2.66127	2.702146667
Zfp708	chr13:67170333-67198912	2.659863333	1.496563333
Ppap2b	chr4:104829951-104905372	2.657903333	10.76285333
Sfmbt1	chr14:31528034-31635907	2.657626667	1.412113333
Gm8615	chr5:149965703-149967768	2.65587	2.245475267
Ahdc1	chr4:132567420-132634025	2.653596667	8.454453333
Dyx1c1	chr9:72806591-72820874	2.652926667	1.0401404
2310014F07Rik	chr9:50296903-50312910	2.650654	2.013963333
Alg6	chr4:99382320-99430151	2.650106667	3.854423333
Elmod2	chr8:85836530-85856385	2.6495	5.146853333
Ttl	chr2:128891682-128922019	2.649414	1.75649
Ccno	chr13:113778009-113780986	2.6461281	0.708
Gng4	chr13:13876805-13920162	2.645956667	24.33966667
Gm14478	chrX:10895411-10895853	2.644666667	0.0949088
Cxxc4	chr3:133899458-133925053	2.642333	1.145632667
Nr2c2ap	chr8:72655231-72657647	2.641153333	4.887933333
Galnt12	chr4:47104824-47135914	2.63986	15.48583667

Zmynd19	chr2:24805321-24814933	2.638576667	1.89698
Frem3	chr8:83134937-83219456	2.633791	1.894216667
BC018242	chr9:21742717-21753351	2.633473333	7.06665
Elp4	chr2:105540265-105744657	2.63063	4.782927667
Gm3383	chr14:5923635-5933553	2.630374667	0.678953667
Cdk18	chr1:134010123-134036262	2.629356667	3.360126667
Otud1	chr2:19579688-19582217	2.62814	5.056803333
Cdh24	chr14:55250828-55260201	2.62796	8.801493333
Mycl1	chr4:122673341-122679723	2.627576667	16.4071
Cox6a2	chr7:135348948-135349880	2.626546667	0
Gpr63	chr4:24900565-24936380	2.62603	3.594803333
4933439K11Rik	chr1:174471750-174480937	2.625130333	14.13128133
Tbc1d16	chr11:119004356-119089813	2.624026667	2.431236667
Sco2	chr15:89202067-89204249	2.620503333	3.02E-77
Ces1e	chr8:95725116-95753518	2.618349667	0.054169667
BC031361	chr16:38085149-38089346	2.618085	2.29137
Vmn2r29	chr7:7165706-7231000	2.61754	6.52587
Tacc3	chr5:34000795-34014846	2.617379667	3.415493333
Ankrd60	chr2:173394161-173403842	2.616666667	0
Mkks	chr2:136699516-136717142	2.610746333	7.651516667
Fam203a	chr15:76199327-76201841	2.609762333	4.46217
Ddx51	chr5:111082469-111089515	2.607899667	5.773746667
Cep57l1	chr10:41438645-41529674	2.606986667	7.9218
Doc2g	chr19:4003384-4007005	2.606735333	5.929174333
Map4k2	chr19:6341249-6353527	2.600336	11.84785333
Prss36	chr7:135076151-135090239	2.59983	2.191745
Zfp942	chr17:22063929-22099431	2.59962	2.315746667
Rom1	chr19:9001871-9003846	2.59905	2.677123333
2410075B13Rik	chr15:75810301-75812715	2.598646667	2.052825333
Fam113a	chr2:130243419-130250377	2.598230333	3.343296667
Serpib9c	chr13:33241143-33251623	2.593223333	8.158576667
4930547E14Rik	chr16:59636770-59672819	2.592338333	0.331626333
Zfp36l2	chr17:84583268-84587287	2.59187	5.0802
Hacl1	chr14:32420411-32454151	2.590606667	2.839033333
1700034I23Rik	chr3:40704120-40706465	2.588643333	0.577304567
Zpld1	chr16:55225287-55283350	2.587673333	1.357528667
Zfp316	chr5:144011373-144031701	2.587433333	1.3841368
Aox1	chr1:58086812-58163254	2.587006667	3.89038
Zfp442	chr2:150232872-150277230	2.586543333	2.8949
B4galnt1	chr10:126602211-126609396	2.586327333	10.83691
Ctsh	chr9:89949104-89970933	2.58462	3.976340333
Zswim4	chr8:86734840-86760941	2.58253	12.18154
Bcat2	chr7:52825522-52845080	2.581703333	4.163403333
Ryr1	chr7:29788358-29910170	2.581356667	0.013338753
Smad3	chr9:63494573-63605801	2.580783333	11.32770667
Mocos	chr18:24812191-24860057	2.580626667	8.16368
Frk	chr10:34203205-34331036	2.580596667	8.86525
Setmar	chr6:108015039-108027114	2.57644	2.635496667
Lrrc14	chr15:76541169-76545521	2.575416667	5.86291
Dpp7	chr2:25207809-25211852	2.575235333	7.69419
6530402F18Rik	chr2:29100635-29108513	2.572576667	3.615578
Gm6568	chrX:153978616-153979714	2.572456667	14.9485

Zc4h2	chrX:92834535-92853771	2.572067	7.09136
Sparc	chr11:55208002-55233582	2.571685	9.219896667
Dync1i1	chr6:5675638-5978039	2.571089333	1.014643333
Cldn10	chr14:119187092-119273747	2.568213333	7.858839667
Arhgef26	chr3:62142698-62266143	2.5653987	2.990656667
Tap2	chr17:34341423-34353266	2.564855667	2.562233333
Gm14295	chr2:176583304-176593409	2.563816667	1.059396
Muc15	chr2:110561764-110578120	2.559623667	10.10336
Cldn1	chr16:26356731-26371925	2.558670667	22.18636667
Rtel1	chr2:181054428-181091321	2.556323333	4.94549
Dsg1c	chr18:20405840-20442424	2.555923667	8.991886667
Tnik	chr3:28162135-28569507	2.555506667	0.3036191
Rnft1	chr11:86298158-86312509	2.555503333	3.110916667
5330426P16Rik	chr16:50726863-50732886	2.551396667	8.336626667
H2-DMb1	chr17:34290135-34297174	2.55124	2.636690333
Gm14478	chrX:10898578-10899020	2.54671	0.055161467
Krt32	chr11:99942161-99949540	2.546632	3.7363045
Mylpf	chr7:134355121-134357801	2.54514	2.113583333
Gm12216	chr11:53598990-53672758	2.544481767	0
Hspb6	chr7:31338320-31340458	2.543546667	6.124306667
Gm13283	chr4:88406677-88407488	2.54338	0.043869467
Peli2	chr14:48740543-48880558	2.53976	4.958136667
Hist1h2ag	chr13:22134345-22134818	2.539456667	2.667223333
Zfp280b	chr10:75495356-75505714	2.537319667	4.913833333
Ttc9	chr12:82732355-82765928	2.536344333	3.988405467
Npy1r	chr8:69221320-69230697	2.53422	6.354547333
Fcgr3	chr1:172981299-172989534	2.532793333	0
Tfap4	chr16:4544660-4559720	2.532676333	2.000991
Atp10a	chr7:65913571-66084796	2.532479333	1.846680333
Arrb2	chr11:70246154-70254176	2.53172	4.654061
0610010B08Rik	chr2:175017505-175163713	2.531593333	0.945038333
Lrrk2	chr15:91503654-91646555	2.53075	2.482857333
Dnahc11	chr12:119116454-119437516	2.53053	9.366003333
4632415K11Rik	chr8:122284486-122302316	2.529261	0.332231333
Gcat	chr15:78861303-78872961	2.528954	8.88126
Figf	chrX:160811479-160840579	2.526110333	1.669183667
Rassf10	chr7:120097475-120100972	2.523063	2.56162
Ccdc86	chr19:11015970-11023756	2.522719667	2.545053333
2410124H12Rik	chr16:92478986-92497610	2.521686667	0
Ccdc8	chr7:17579936-17581994	2.520422333	0.886433
Mettl7a2	chr15:100183630-100192250	2.51959	2.918103333
Cd97	chr8:86247149-86265210	2.519496667	9.032793333
Gabrb2	chr11:42233258-42446093	2.519356667	0.042310533
Hist4h4	chr6:136750073-136752952	2.51856	0.424894
Ppil6	chr10:41210244-41234094	2.518264667	10.61088667
Cgref1	chr5:31235515-31247853	2.518176667	7.188963
Gm505	chr8:127421785-127427713	2.517123333	4.353236667
Lce3c	chr3:92748407-92749652	2.51456	10.22129
Rbm41	chrX:136424049-136533134	2.51321	5.317656667
Plekho2	chr9:65402190-65427841	2.510714667	0.247912567
Gm9776	chr13:95126703-95128878	2.506347667	0.985969
Amacr	chr15:10911510-10926379	2.505763333	3.667796667

Tmsb15l	chrX:133489528-133511413	2.505359	7.248766667
Enho	chr4:41585176-41587335	2.503626667	0.742014
Sac3d1	chr19:6116003-6118586	2.50189	2.913523333
1190007F08Rik	chr4:153394578-153400153	2.501726667	4.31672
Zbtb39	chr10:127176593-127184395	2.49908	7.72799
Lfng	chr5:141083294-141091499	2.498203333	7.714363333
Extl1	chr4:133912287-133928462	2.495506667	8.458693333
Sgms2	chr3:131021903-131047841	2.495486667	2.617134267
B4galt4	chr16:38742376-38769158	2.495241	14.76202333
Adat1	chr8:114490807-114516202	2.493636667	3.441147667
Hist1h4n	chr13:21903652-21903964	2.493076667	4.097073333
Prdm9	chr17:15680042-15700287	2.492547	1.571270667
Wdr92	chr11:17111895-17135203	2.491763333	0.849380333
Ak7	chr12:106944191-107020657	2.491293333	3.540954133
Wdr96	chr19:47811346-47911851	2.489736667	3.412322
Wdr25	chr12:110132481-110266662	2.487807	0.548327
Unc13d	chr11:115923409-115939275	2.487548333	0.258494333
AW146020	chr6:81873662-81909092	2.486	3.05293
Cd1d1	chr3:86799757-86803262	2.485623667	1.57434
2500004C02Rik	chr2:153166892-153171546	2.482643333	10.64539333
Rnf39	chr17:37079995-37084931	2.480536667	16.55652667
Zfp870	chr17:33016165-33028548	2.4784072	1.158293667
Olfr107	chr17:37542421-37543454	2.478316667	0
Tspan2	chr3:102538692-102576233	2.478013333	5.479256333
Lrrc25	chr8:73140742-73144749	2.47634	2.554606667
Gpr125	chr5:50351189-50450235	2.475976667	9.078033333
Zfp341	chr2:154439103-154472553	2.474373667	4.027246667
Cecr5	chr6:120459511-120481317	2.473709333	6.075892667
Tagln	chr9:45737710-45744141	2.473679	1.825544333
Zfp879	chr11:50645536-50655054	2.47184	0.865830667
Sun3	chr11:8916056-8948994	2.470949	2.425081
4732471D19Rik	chr13:54605165-54652651	2.468393333	4.643666667
Lama3	chr18:12492532-12741521	2.46794	10.70703333
6430598A04Rik	chr5:138172190-138181226	2.467920667	1.389896667
Pdss2	chr10:42941291-43184688	2.467526	7.573663333
Nudt15	chr14:73919670-73948049	2.466236167	1.271410333
Camkk1	chr11:72832509-72855567	2.464436667	2.852550667
Grk5	chr19:60965651-61168458	2.462966667	3.740346667
Gm11549	chr3:36413978-36420367	2.45913	0.049902333
Sox7	chr14:64562542-64569569	2.45899	3.379355
Bckdha	chr7:26414870-26443780	2.458491333	5.928403333
Psapl1	chr5:36546669-36549216	2.457773333	14.22076
4930539J05Rik	chr3:135099186-135101629	2.457316667	23.88318
2810417H13Rik	chr9:65738129-65751358	2.456468	2.702533
Aoc2	chr11:101186376-101191008	2.454781333	1.006246667
Pop1	chr15:34425065-34460408	2.449048667	0.904625333
Stx11	chr10:12659786-12684065	2.445262	1.097094833
Il23a	chr10:127733195-127735140	2.444956333	0.7626069
Cnih4	chr1:183081061-183099125	2.444106667	5.735023333
Pigr	chr1:132723260-132748826	2.443796333	7.626833333
Fhl2	chr1:43179918-43220806	2.443781333	5.94128
Saal1	chr7:53941477-53966021	2.442403333	2.437403333

F830016B08Rik	chr18:60453033-60462670	2.440882333	0.015492367
Sco1	chr11:66866171-66880942	2.438984	3.944653333
Mdm1	chr10:117578842-117606055	2.438846667	6.655206667
3110070M22Rik	chr13:120276063-120277191	2.43709	9.600369428
Cno	chr5:37138612-37139918	2.436013333	2.667709667
Zfp296	chr7:20162635-20166005	2.435194667	5.237243333
Gm9961	chr16:11901456-11930687	2.434291667	0.102019667
Apaf1	chr10:90452055-90545488	2.434056667	2.743346667
Serpnb3b	chr1:109050537-109057691	2.433443333	8.078426667
Clybl	chr14:122580915-122801456	2.433163333	2.59181
Zfp202	chr9:39999900-40021189	2.432993667	1.511893333
Aldh16a1	chr7:52397209-52409908	2.431756667	4.113013333
Gm10677	chr9:47607242-47626291	2.431674333	2.124853333
Tmprss11g	chr5:86914901-86947625	2.43037	0.417678667
Zfp354c	chr11:50624586-50641233	2.430162333	8.664186667
Zfp939	chr7:46704887-46732786	2.428543333	3.841123333
B4galt2	chr4:117545604-117556081	2.425050333	3.08942
Gsdmc4	chr15:63722819-63743852	2.423596667	0.223405467
Zfp184	chr13:22036962-22052354	2.42263	3.818353333
Zfp71-rs1	chr13:67806242-67830110	2.42199	4.319556667
Gm3383	chr14:6727191-6737109	2.421007667	0.693146333
Serpini1	chr3:75361454-75446445	2.420432333	29.27466667
Sumf2	chr5:130322865-130339827	2.420002414	1.270532033
Zfp275	chrX:70587958-70604419	2.419846667	3.904133333
Rhbdf2	chr11:116459478-116488333	2.416533333	1.745913333
D830031N03Rik	chr4:123080843-123089154	2.415660333	6.610123333
Paqr5	chr9:61801544-61874597	2.414503333	1.977050667
Asb3	chr11:30854397-31002704	2.412823333	6.909003333
Cd320	chr17:33980035-33986719	2.412221333	12.56293
Prph	chr15:98885604-98889409	2.411719	0.218479333
Tifa	chr3:127492830-127501307	2.411468333	4.586287
Wdr90	chr17:25981678-25998460	2.410436667	3.465263333
Pcdhb11	chr18:37581071-37584686	2.409193333	5.455003333
Suv39h2	chr2:3373086-3392258	2.407629333	4.127073333
Mthfsd	chr8:123621456-123632279	2.406909	4.501385333
Adc	chr4:128609389-128639661	2.405971667	5.329217
Rhof	chr5:123568188-123582638	2.40482	1.884568333
Zfp239	chr6:117813094-117822784	2.404386667	1.610523333
Clca5	chr3:144733228-144762005	2.403164333	8.73862
Taf4b	chr18:14941753-15058868	2.402613667	1.681831667
Crlf2	chr5:109983727-109988012	2.401613333	0.916433333
Glpr1	chr10:111422503-111434320	2.400246698	4.17E-07
5730422E09Rik	chr5:149931140-149993612	2.40008	0.961163333
Zfp770	chr2:114019196-114027168	2.39831	2.1385349
Gtf2ird2	chr5:134659907-134694013	2.398261667	2.192031
Lypd6b	chr2:49643205-49804366	2.397857	25.54175667
Ece2	chr16:20611673-20645988	2.397413333	7.597673333
Zcchc4	chr5:53174305-53211004	2.394669667	0.688329
L2hgdh	chr12:70791422-70825861	2.39404	11.25707333
A330076H08Rik	chr7:69088786-69127189	2.393252667	0.209436333
Pitpnm1	chr19:4100116-4113965	2.39192	4.164723333
Cotl1	chr8:122333113-122364479	2.390214667	0.808832667

Armc5	chr7:135380870-135388614	2.388956667	2.409203333
Rnaseh1	chr12:29334466-29344456	2.388774333	14.25439333
Osbp2	chr11:3603733-3763906	2.38854	0.8023042
Trem12	chr17:48439362-48451859	2.387353333	0
Polr1e	chr4:45031496-45046564	2.386587333	2.951965
Vps37d	chr5:135548769-135554136	2.384643333	2.303953333
Synpo	chr18:60753643-60783959	2.382543333	3.30746
BC023829	chrX:67713230-67730218	2.380262333	1.875260333
Zfp229	chr17:21870690-21885936	2.380116667	3.558956667
Cacnb2	chr2:14525932-14909535	2.38006	4.19269
Xrcc3	chr12:113041403-113052052	2.37993	7.410266667
Gm10804	chr2:93292975-93310031	2.376	0.204559667
1110002L01Rik	chr12:3403882-3426747	2.375058333	2.385230667
Uxt	chrX:20528790-20539104	2.374359	1.303935667
2410002I01Rik	chr11:119951835-119960045	2.37431	6.354863333
Slc7a4	chr16:17572110-17576764	2.372896667	4.896483333
Gm12359	chr11:98659622-98671403	2.37286	3.823642
Cryz	chr3:154259674-154286146	2.372773333	2.108673333
Olfra458	chr6:42410074-42411016	2.371936667	7.343046667
Celf6	chr9:59426143-59455099	2.370815667	0.2439768
Slc24a6	chr5:120961200-120984033	2.368731	1.83969
9630033F20Rik	chr6:127035133-127059570	2.366834667	1.61482
Fabp7	chr10:57504728-57508256	2.365666667	0
Kif15	chr9:122860198-122927851	2.363826667	1.175664667
Prnd	chr2:131776596-131781866	2.363819667	0.237027333
Ccdc114	chr7:53183767-53204326	2.363198	1.828246667
Nipsnap1	chr11:4774005-4794203	2.36298	18.80596667
Fbxo46	chr7:19705207-19723610	2.3625	3.703750333
Zfp53	chr17:21625951-21647441	2.36202	2.33034
Zfp862	chr6:48454337-48484831	2.3604	1.952080667
2010002M12Rik	chr19:34691540-34715233	2.36029	0.576253767
Tubb2a-ps2	chr12:11889001-11889705	2.359656667	2.716861667
Trpc2	chr7:109214226-109244930	2.359033333	0.763899667
Magix	chrX:7250291-7258377	2.357063	0.226342667
Styx	chr14:45970860-45996559	2.355336667	4.097993333
Nwd1	chr8:75170609-75238645	2.354935667	0.982672333
1700024B18Rik	chr14:124386856-124414906	2.351948	2.078637
Clu	chr14:66587319-66600382	2.348850333	12.27322667
Dapk3	chr10:80645751-80655942	2.348813333	13.55824333
Kcnk7	chr19:5704475-5707101	2.347702667	3.494735667
Zdhhc11	chr13:74101309-74130288	2.347560333	0.0257441
Hist1h3a	chr13:23853721-23854255	2.347183333	2.412508
Ccdc37	chr6:90353729-90378474	2.34712	0.397796667
Cdc45	chr16:18780539-18812065	2.346233333	1.678496667
Mkx	chr18:6934963-7004777	2.343253333	0.989422667
Stk36	chr1:74648028-74683467	2.342626667	4.89109
Rhobtb2	chr14:70184796-70205352	2.340023333	4.071566667
Rnf215	chr11:4035162-4041195	2.33922	3.468904
Commd5	chr15:76730370-76731727	2.338920667	8.892803333
Mpp3	chr11:101860966-101888269	2.338906667	0.213319
Acta2	chr19:34315580-34329826	2.336609667	6.917552667
Gm14057	chr2:130627701-130629837	2.33594	3.51715

Mcm2	chr6:88833467-88848774	2.335473333	26.7989
Meis3	chr7:16760728-16771852	2.3341	11.11959
D130020L05Rik	chr12:102320660-102327137	2.333581333	0.392230667
Prkab2	chr3:97462134-97476990	2.333555333	5.316186667
Acads	chr5:115560307-115569322	2.333484333	3.959643333
Asphd1	chr7:134089521-134093095	2.33279	0.401149
Grm5	chr7:94732677-95283573	2.330723333	0.22541
Foxe3	chr4:114597751-114598618	2.3304	3.91855
Notch3	chr17:32257837-32303797	2.326646667	6.150596667
Clec2g	chr6:128884398-128934725	2.325459	1.579965333
Opn1sw	chr6:29326670-29330513	2.324998667	5.188271667
Gm5141	chr13:62873559-62887168	2.324123333	1.142954667
Dnajb13	chr7:107651528-107663324	2.321185	3.302696667
Pgap1	chr1:54529843-54614528	2.320783333	6.886393333
Traf2	chr2:25373501-25402414	2.32064	0.956706333
Gsg2	chr11:72948985-72951796	2.3205305	1.367601
Peo1	chr19:45081047-45087252	2.320273333	2.38547
Gm11127	chr17:36192760-36195316	2.318616667	0.925136333
1110028F11Rik	chr11:87513025-87518829	2.317663333	3.72185
Igdcc3	chr9:64988995-65033677	2.31616	0.076568667
1700001K19Rik	chr12:111905898-111920829	2.315006667	5.399513667
Baat1	chr5:141180976-141195288	2.31414	4.297956667
Gm7030	chr17:36264553-36266370	2.31328	1.372445333
H2-T9	chr17:36175353-36179637	2.31266673	5.1525
Cyp3a13	chr5:138334160-138362847	2.312509067	1.3714541
Sh3pxd2b	chr11:32247810-32328183	2.310063333	3.497367
B230206H07Rik	chr7:148545076-148551009	2.309350667	4.406509333
Serpina9	chr12:105234829-105251862	2.307427333	5.389326667
Spsb1	chr4:149270392-149329115	2.30641	5.33977
Lmnb1	chr18:56867466-56913079	2.30535	7.534456667
E330012B07Rik	chr6:147128762-147156816	2.303379667	1.604626667
Dennd1b	chr1:140860285-141072619	2.303053333	4.639256667
Dlgap2	chr8:14095874-14847686	2.2972	3.66954
Rragb	chrX:149574500-149606486	2.29712	1.735883333
Pde3b	chr7:121558767-121681451	2.296226667	0.642880333
Il13ra1	chrX:33652133-33711256	2.295726667	20.72686667
Acvr2b	chr9:119311618-119342624	2.295023333	0.77912
Gm17801	chr17:25411068-25412473	2.293253333	0.070917
Lrrc4	chr6:28778125-28781747	2.289537	5.783162333
A930001C03Rik	chr19:4439322-4448325	2.288943333	0.052721667
Sgcd	chr11:46792284-47192804	2.28651	5.381903333
Hrh3	chr2:179834177-179838927	2.28588	11.12638333
Ropn1l	chr15:31370964-31383444	2.285248333	4.177536667
Pgap3	chr11:98249985-98261804	2.284883667	2.187527333
Eri2	chr7:126927339-126937572	2.28241	6.8481
Zfp808	chr13:62231249-62275296	2.282326333	0.372942667
Tbc1d2b	chr9:90096886-90165607	2.281636333	3.066846333
Tmem88b	chr4:155155699-155159983	2.280699333	5.168453
Suv39h1	chrX:7638296-7651886	2.279073333	3.282647667
Gm3383	chr14:5541919-5551837	2.276360667	0.611279667
Lrrn4cl	chr19:8925274-8928399	2.275891	0.11886122
Farp2	chr1:95408680-95518553	2.273093667	2.516446667

Upk2	chr9:44260797-44262850	2.27309	2.58076
Gp1ba	chr11:70452623-70455557	2.272768333	1.020537333
2310003H01Rik	chr11:120230875-120240060	2.272123333	3.75024
Dclre1b	chr3:103604527-103613310	2.27194	1.478431333
Rapgef4	chr2:71819271-72095531	2.26946	7.946976667
Gm3264	chr14:4974180-4978876	2.268326667	1.163136667
Setd4	chr16:93583705-93604060	2.265945	1.210643667
Gm16516	chr11:60734442-60745369	2.265173333	0.848881667
Gm5595	chr7:49915477-49948088	2.264876667	2.524983333
Relt	chr7:107994361-108011927	2.264783333	1.501389333
Fgf16	chrX:102959815-102971871	2.264042667	0.822102867
Zfp58	chr13:67591102-67601458	2.262125667	2.364326667
Lpar5	chr6:125017937-125032490	2.260946667	2.925903333
Vat1l	chr8:116729539-116897970	2.260345	0.599265667
Best1	chr19:10059661-10076123	2.259986667	1.806005367
4632415L05Rik	chr3:19794870-19798984	2.259681	5.036663333
Cald1	chr6:34659443-34725469	2.257712667	9.40453
Sox15	chr11:69468538-69470229	2.256605667	10.73732
Tpbp	chr9:85735986-85740662	2.25523	8.824633333
Actr3b	chr5:25265843-25356159	2.254218667	0.3150749
Mtap7d2	chrX:155852509-155936879	2.253487333	5.109891667
Kctd7	chr5:130620757-130631678	2.25269	0.990096
Plekhh3	chr11:101023992-101032616	2.2521	2.74077
Cox6b2	chr7:4703395-4704696	2.251923333	5.772633333
Zfp956	chr6:47903388-47915298	2.251873333	4.862766
Mtrf1	chr14:79797578-79823457	2.24975	4.738036667
Sema4a	chr3:88239883-88265104	2.2491428	13.96751
Adcy7	chr8:90796301-90853861	2.248886667	0.451751667
Zfp773	chr7:7083388-7089466	2.248503333	3.617446333
Fgf15	chr7:152082436-152086856	2.247176667	0
Gm10433	chr12:101426177-101431748	2.247035667	0.487619333
Hist1h3c	chr13:23836910-23837390	2.246213333	1.452372667
Ect2	chr3:26996143-27052800	2.245986667	1.891559167
Arl4c	chr1:90594800-90598766	2.24467	8.95347
Serpina1b	chr12:104966365-104976399	2.24451	0.487053167
Nradd	chr9:110523638-110526897	2.242936667	5.763652
4930594C11Rik	chr1:37542695-37545450	2.242906667	0.965926667
Katnb1	chr8:97605100-97623774	2.242006667	3.46223
Aim1	chr10:43670112-43724652	2.24126	8.494373333
Fdxacb1	chr9:50576342-50580775	2.239303333	6.414863333
4933431E20Rik	chr3:107691767-107699131	2.233930667	5.007649333
Lrrc39	chr3:116265890-116286052	2.232606667	2.883956667
Defb48	chr14:63596360-63603347	2.231856667	0
Clcn5	chrX:6735537-6896484	2.230116667	5.212226667
Thumprd2	chr17:81425666-81464425	2.226541	0.364683667
Sh3bgr	chr16:96422076-96450540	2.224587667	1.701886667
Nudt12	chr17:59140823-59152745	2.223926667	1.327913333
Dcdc2b	chr4:129285574-129291501	2.221033667	0.245425333
Hspa13	chr16:75755435-75767063	2.220916667	3.777203333
Lekr1	chr3:65470149-65635084	2.218326667	6.893266667
Ccdc93	chr1:123327643-123403037	2.217906667	6.5582
Lass3	chr7:73888389-73968578	2.217106667	9.221666667

Gmip	chr8:72332585-72345769	2.214856667	1.039191667
Fndc4	chr5:31594618-31598250	2.214339333	1.728643167
Ccdc87	chr19:4839365-4842528	2.213948667	1.12212
Gm4371	chr15:96013230-96033901	2.21362	0.144177
Tbc1d8b	chrX:136219534-136288757	2.212946667	3.83138
Vwa5b2	chr16:20589654-20605450	2.211506667	9.949476667
9330020H09Rik	chr15:98397754-98401295	2.210816667	2.030801333
Fam161a	chr11:22913386-22923741	2.210306	6.865706667
Ubxn11	chr4:133658497-133682695	2.208727667	2.28076
Cxcl5	chr5:91188324-91190651	2.20657	0.93956
Cbx8	chr11:118899749-118902227	2.205012	1.660876667
Nek5	chr8:23184087-23235525	2.204268333	1.702407
Mettl21d	chr12:70678614-70684015	2.203728667	4.213893333
Ankrd55	chr13:113078658-113174210	2.200679667	0.245798
Ccdc134	chr15:81958351-81972632	2.200493333	4.988544667
Lpcat2	chr8:95379248-95443178	2.200450667	6.551260333
Pou2af1	chr9:51021794-51048184	2.199620333	1.915906667
Evi2b	chr11:79326886-79344091	2.195553333	0.684327667
Lrp2bp	chr8:47095955-47114830	2.194616667	1.146286
Adat2	chr10:13272712-13283182	2.19458	4.74773
Orm2	chr4:63023482-63026911	2.193494	1.250771
Zfp248	chr6:118377336-118405524	2.193426667	2.471987
Snx8	chr5:140816256-140865201	2.19247	4.406593667
Abca12	chr1:71289663-71461484	2.19224	8.536813333
Lonrf3	chrX:33868403-33906851	2.192043333	2.083554
Bcl11b	chr12:109148612-109241624	2.191308667	2.527
Slc8a2	chr7:16715648-16745860	2.191084667	0.552465667
Dtwd1	chr2:125977876-125991013	2.190566667	5.242903333
Gm16386	chr17:22916824-22954714	2.188643333	0.958476667
Homez	chr14:55471573-55482995	2.188011333	3.41469
2900041M22Rik	chr11:117472560-117474731	2.18736	0.97547
Loxl4	chr19:42666768-42687296	2.185172667	2.820596667
Doc2b	chr11:75582591-75609559	2.184806667	2.68791
H2-Q4	chr17:35516561-35521619	2.183173333	1.931450833
Dcbld2	chr16:58408647-58469858	2.182886667	3.765023333
Rai14	chr15:10498732-10644386	2.182818	0.460034
Tubb6	chr18:67550384-67562403	2.182426667	11.97174333
Axin2	chr11:108781662-108812095	2.1813	1.283790667
Pecr	chr1:72305746-72330888	2.180436667	3.977327667
Lep	chr6:29010220-29023876	2.180373333	0.0581268
Tmco7	chr8:109206967-109375339	2.179772667	2.193187
Dmrta2	chr4:109650629-109656289	2.178299667	2.19805
Cend1	chr7:148612349-148615319	2.175987	0.069746333
Rad51c	chr11:87191108-87217997	2.17593	3.419486667
Pdpx	chr15:78744348-78749947	2.175533	11.10248333
Comtd1	chr14:22665082-22668132	2.17511	2.845123333
Zfp128	chr7:13466526-13478771	2.17461	1.015567167
Soat2	chr15:101981005-101993867	2.174306667	0
Tmod2	chr9:75413428-75459132	2.173162333	6.02438
Fzd4	chr7:96552875-96558620	2.172022	3.877966667
Fam189b	chr3:88987146-88993211	2.170825333	11.93751
Plau	chr14:21655883-21662610	2.170635167	0.4658949

Serpine3	chr14:63282503-63311080	2.169693	0.833180667
Vgll3	chr16:65815877-65863311	2.168792	1.954818667
Trdmt1	chr2:13431787-13466291	2.168469333	1.402838333
Fam178b	chr1:36619540-36740028	2.168280333	0.518171667
Tac4	chr11:95122842-95130575	2.167652	3.92676
Oas1c	chr5:121250207-121262523	2.165254	2.3458506
Dkk2	chr3:131748255-131843268	2.162950667	0.0915601
Gas6	chr8:13465373-13494535	2.160583333	16.57140333
Lrrc8e	chr8:4226826-4237470	2.160374667	6.040503333
Rad18	chr6:112569844-112646664	2.160165	5.119156667
Zfp963	chr8:72265537-72273861	2.158748333	0.790714
Klhl22	chr16:17759713-17793475	2.158122333	5.855603333
Ttc30a2	chr2:75814228-75816236	2.15695	1.193797667
Zfp97	chr17:17258346-17283842	2.15405	0.774151667
Echdc1	chr10:29032971-29066467	2.153775333	11.75876333
Hk2	chr6:82675020-82724448	2.149832333	8.802886667
Gm16596	chr12:109774611-109793828	2.147063333	1.431238667
Omg	chr11:79314483-79317584	2.14583	1.510274233
Gm17677	chr9:35548633-35549837	2.144406667	0
Dnahc17	chr11:117883036-117990533	2.144387667	0.679977
Mcm3	chr1:20793094-20810294	2.143706667	0.60865
Lgr5	chr10:114887369-115024836	2.143443333	3.63195
Synm	chr7:74875046-74904628	2.142055333	0.348767
Pole2	chr12:70302765-70329177	2.140365	3.008899167
Hr	chr14:70953862-70973349	2.138	13.49947333
Rrp15	chr1:188544964-188573237	2.136181	6.796586667
Wasf3	chr5:147196581-147282701	2.136151	0.237905
Palm	chr10:79256316-79283641	2.135649	6.81177
Tymp	chr15:89202361-89207468	2.13514	2.119715333
Zbtb42	chr12:113917050-113920958	2.129917667	0.643682667
Dbnidd1	chr8:126028617-126039355	2.12871	2.090421
Telo2	chr17:25236513-25252912	2.126993333	1.123377
9930014A18Rik	chr15:60654519-60662955	2.125916	0.0436306
Gal3st1	chr11:3883638-3899331	2.124683333	1.423184333
Tpst2	chr5:112705726-112744376	2.123892	7.206226667
2700070H01Rik	chr14:63673909-63676986	2.12297	0
Als2	chr1:59219599-59294075	2.121276667	2.95366
Egln2	chr7:27943676-27951821	2.11958	7.391273333
Rnd2	chr11:101329651-101332620	2.11934	0.745876667
Zfp456	chr13:67464519-67476699	2.1158	0.4819307
Creb5	chr6:53523367-53645826	2.1137074	4.67295
4930556N09Rik	chr10:96498401-96523693	2.113382667	0
Trim16	chr11:62633754-62656450	2.11254	4.807303333
Athl1	chr7:148127479-148133557	2.112104333	2.945687333
Fmo5	chr3:97432726-97459210	2.111491667	2.380956667
Adig	chr2:158328347-158333934	2.11104	0
Gm5126	chrX:100127385-100129562	2.109168267	0.153915333
Dleu2	chr14:62221672-62301210	2.10828	3.322946667
C77370	chrX:101272774-101396456	2.107803333	2.166216667
Pthlh	chr6:147200631-147212607	2.107773333	5.041233
Nedd4l	chr18:65047409-65377480	2.107106667	4.556816667
Klhl3	chr13:58106317-58203789	2.105898333	0.213043333

Gjb3	chr4:127002478-127008080	2.104924667	0.653258667
Smo	chr6:29685496-29711366	2.104893333	3.54538
Gm16062	chr11:59623581-59631864	2.104390001	9.159100031
Trp53rk	chr2:166619266-166624992	2.10357	1.507854333
Ppp1r9a	chr6:4853319-5115661	2.10352	3.120848
Vwa2	chr19:56948905-56986568	2.10319	5.89465
Pex11a	chr7:86882149-86887911	2.100023333	9.01253
Rftn2	chr1:55227003-55283626	2.099413333	1.907215667
Zfyve9	chr4:108311863-108396481	2.093606667	4.41453
1700028K03Rik	chr5:107963729-107980561	2.092813667	3.00376
Sptlc3	chr2:139319655-139463410	2.091652	7.106317667
Polr3h	chr15:81745459-81756643	2.090446	4.763373333
Gm8348	chr14:3757740-3778983	2.088376667	1.152336667
Mastl	chr2:22972063-23011544	2.088003667	2.74238
Cdr2l	chr11:115243229-115257446	2.086934	3.068791333
Lhfp14	chr6:113118080-113145378	2.086348367	2.305984
Fam38a	chr8:125005597-125075229	2.084549667	3.215632
Dennd1c	chr17:57205477-57217933	2.083863333	9.791806667
Gbp7	chr3:142193301-142213047	2.083677667	0.8153088
Ppapdc3	chr2:31951170-31966340	2.0835715	1.574443667
Kif2c	chr4:116832240-116855229	2.080386667	0.304328
Kctd14	chr7:104599843-104608067	2.080157333	2.24657
Olfml3	chr3:103539316-103541924	2.078853333	1.197909333
Col4a4	chr1:82447297-82583424	2.071485333	0.105264967
Mtr	chr13:12278806-12350380	2.071196667	2.33332
Tgm4	chr9:122943858-122976676	2.070520333	0.931158
Rgs18	chr1:146599970-146622551	2.069204333	0.323150667
3300002I08Rik	chr2:150136672-150188501	2.067353333	1.091243
1700029J07Rik	chr8:47038959-47060606	2.062866667	8.283983333
Grwd1	chr7:53080592-53086159	2.06268	0.016598033
Tlr4	chr4:66488844-66503830	2.061363333	0.799473333
Cdc20	chr4:118105505-118109948	2.060945	1.287283333
Pcdhb12	chr18:37595274-37598308	2.059336	5.63089
Brsk1	chr7:4642529-4667599	2.057451333	4.593994
Sobp	chr10:42722305-42894336	2.057013333	1.456517667
Mfsd7b	chr1:192829710-192850069	2.05564	1.616389
Fzd10	chr5:129106980-129109968	2.054636667	7.55593
Vasn	chr16:4639944-4651166	2.052876667	2.55007
Gm15412	chr7:103487992-103490474	2.05133	2.288536333
Aatk	chr11:119868631-119908459	2.047828667	6.47071
Wnt5b	chr6:119382548-119494365	2.04597	0.490686
Nmnat1	chr4:148842895-148859251	2.044987333	0.512272333
Emp3	chr7:53173392-53176796	2.044863333	1.844533333
Prss48	chr3:85797731-85806413	2.04351	5.07572
Vtcn1	chr3:100629381-100700845	2.043281533	1.159278
Slc6a2	chr8:95484945-95525566	2.040493333	2.713736667
Gpr1	chr1:63229267-63260783	2.037123333	0.244476
Hic2	chr16:17233679-17263523	2.035225	1.891326667
Lpcat1	chr13:73604830-73651986	2.03496	1.555711333
Csdc2	chr15:81767188-81781371	2.033731	5.284393333
Csta	chr16:36120031-36131275	2.032438667	4.677951333
4933427E11Rik	chr15:74539590-74540804	2.031176667	0.033510333

Cyb5r2	chr7:114891968-114901546	2.029591667	0.145576133
Gdnf	chr15:7761010-7787575	2.028773333	0.595202667
Irf5	chr6:29476624-29487320	2.027453333	4.721063333
1700086O06Rik	chr18:38398058-38410219	2.026333333	3.628043333
Cd79b	chr11:106172654-106175843	2.025133333	5.837306667
Zfp960	chr17:17201066-17226595	2.022116667	0.995328333
Tceanc	chrX:162937746-162948410	2.022093333	1.104373333
Phyhip	chr14:70857323-70868631	2.021788333	3.982996667
Fbln1	chr15:85036437-85116724	2.021374	0.925959967
Gm11944	chr11:3209002-3220725	2.021135333	1.827763333
Frat1	chr19:41904459-41907073	2.021018	1.100737867
Zfp39	chr11:58701654-58717727	2.019689667	4.439633333
Slc12a4	chr8:108467489-108490015	2.019328667	7.57539
Zfp791	chr8:87633065-87646994	2.016805667	2.019006333
Al182371	chr2:34937380-34956205	2.015806033	0.2778086
B930003M22Rik	chr17:10512783-10514006	2.015431	0.285372833
Gm2518	chr19:8848974-8851452	2.014773667	0.997833333
Rnf165	chr18:77694848-77803875	2.01465	1.456158333
Fzd8	chr18:9212853-9216199	2.01429	1.625986667
Mad2l1	chr6:66485461-66490985	2.01414	3.89895
Rnmtl1	chr11:76057237-76064124	2.013676	2.135371667
Lrp11	chr10:7309597-7345275	2.012505333	11.45620667
Lilrb4	chr10:51210780-51216417	2.011466667	0.06975
Tmem120a	chr5:136211359-136220042	2.011196667	1.183354933
Ankrd6	chr4:32891009-33037801	2.011123333	2.048773667
Sowahb	chr5:93470148-93474048	2.01066	3.713368067
Sox9	chr11:112643523-112649071	2.00994	2.201992033
Aldh3b1	chr19:3913490-3929716	2.008829333	3.896749667
Kbtbd12	chr6:88563744-88577439	2.008069	0
Nup107	chr10:117187698-117229761	2.007716667	5.990136667
Adamtsl4	chr3:95480126-95491781	2.007676667	2.892415667
2310008H04Rik	chr16:15889319-16146926	2.006164333	3.264776667
Gda	chr19:21465796-21547151	2.005356667	4.182733333
E130311K13Rik	chr3:63718617-63733307	2.004999	4.883663333
Adap1	chr5:139747829-139801418	2.004696333	0.988988667
Mad1l1	chr5:140484642-140797506	2.002660333	4.6181
Eif2ak3	chr6:70794520-70855234	2.002186	6.237096667
Zfp13	chr17:23712818-23736454	2.001706667	3.003066667
Hexim2	chr11:102994652-103001222	1.996033333	0.974533333
Tnn	chr1:162015162-162083706	1.993443	0.2628708
Doc2a	chr7:133991066-133996219	1.992127	0.420493
Ush1g	chr11:115176505-115183232	1.991576667	0.426917533
2310030N02Rik	chr4:10978194-11003351	1.990360667	6.680436667
Pcdhb6	chr18:37493681-37496000	1.989107	2.200113333
Ckap2l	chr2:129093945-129122948	1.988570333	5.909166667
Gm16845	chr9:21875445-21890575	1.987690667	2.1149176
B3gnt1	chr19:5038825-5041134	1.985752667	0.670660667
Tmem53	chr4:116924593-116941185	1.985344333	7.507653333
Zfp551	chr7:13000496-13007840	1.983346667	2.824771667
BC066135	chr2:180012350-180024584	1.982976667	1.225462667
Acat3	chr17:13116824-13133262	1.98256	1.046204333
Mab21l3	chr3:101616998-101640146	1.979063333	0.753759333

Serpina1c	chr12:105133135-105143160	1.97444	0.5280178
Pcdhb22	chr18:37678006-37681073	1.974427333	4.03884
Olf1r71	chr4:43718499-43719438	1.97293	0
Pla2g15	chr8:108674298-108688615	1.9711502	2.476144333
Gmppb	chr9:107951620-107954267	1.971127667	3.961592333
Cdr2	chr7:128100549-128125826	1.970788267	5.70858
C8a	chr4:104488284-104549003	1.970221	0.008198867
Ms4a7	chr19:11395897-11410606	1.969996667	0
Hspa12a	chr19:58870240-58935474	1.969429	3.796483333
Fam118a	chr15:84867491-84893260	1.969272	1.515857333
Zfp273	chr13:67914752-67927937	1.967373	0.941566333
Gp49a	chr10:51200484-51206025	1.967183333	0.4104
Steap2	chr5:5664830-5694568	1.966520667	1.377345333
Foxn1	chr11:78171789-78200060	1.965857667	6.334115333
Msl3l2	chr10:55826722-55836686	1.965306667	1.038527667
Tspan18	chr2:93041916-93174644	1.965304333	0
Gng3	chr19:8911418-8913736	1.965064333	2.032172
Tmem40	chr6:115679156-115712484	1.963686667	11.39537683
Adarb1	chr10:76753471-76881018	1.962918667	4.38742
D930015M05Rik	chr2:92249048-92272465	1.962099667	2.259336667
Cep250	chr2:155782293-155824636	1.961603333	3.570266667
Trip10	chr17:57388873-57403120	1.959246667	7.53906
Asah2	chr19:32059140-32177630	1.958136667	2.447306667
Gm8348	chr14:6973740-6994984	1.957606667	1.248858667
Matn2	chr15:34236435-34365995	1.957187667	1.338866667
Gm10778	chr10:81111813-81130106	1.954692667	1.045399333
Ddx60	chr8:64406885-64516492	1.954433333	1.50347
Dnase1l3	chr14:8797703-8826696	1.954188667	4.314589467
Mark1	chr1:186720302-186823428	1.95406	5.130906667
Cd36	chr5:17287507-17394777	1.953793333	1.088805333
Avpr2	chrX:71137440-71139766	1.953082667	4.69782
Slc6a14	chrX:21292025-21319483	1.95233	4.074284667
Tcf19	chr17:35649679-35653769	1.951878333	1.669437
Cryab	chr9:50560862-50564738	1.949162333	31.69117
Pou5f2	chr13:78164162-78165557	1.947203333	1.529163333
Zranb3	chr1:129850762-129998985	1.946788	0.847083167
Rsph4a	chr10:33624916-33635827	1.944778	9.27874
Pcgf5	chr19:36453556-36530694	1.944441	2.900876
Runx1t1	chr4:13670448-13820790	1.942912667	0.055387667
Serpina1d	chr12:105001796-105011843	1.942553333	0.4571843
2310042E22Rik	chr16:21152731-21154017	1.941963333	8.239193333
1700026J04Rik	chr13:35001832-35011861	1.941857	0.824019
Zfp37	chr4:61850576-61869580	1.941516667	4.499443333
2300005B03Rik	chr15:74573268-74577117	1.940068	22.04893333
Tmem48	chr4:107040388-107086943	1.939834667	1.086599
Vill	chr9:118961895-118980643	1.938716333	0.514916
Man1a	chr10:53625838-53795602	1.936833333	1.735516667
C3	chr17:57343395-57367559	1.935516667	4.22148
5830416I19Rik	chr5:64436211-64441465	1.93551	0
Trim61	chr8:67536874-67542587	1.934923667	0.9207425
Duoxa1	chr2:122129284-122139466	1.934103333	2.745920667
Zfp560	chr9:20149579-20189602	1.933646667	3.340309667

Slc25a15	chr8:23486021-23509093	1.92858	3.83957
Kcnp4	chr5:48780741-49676898	1.928328333	0.275862267
Srd5a1	chr13:69712326-69750341	1.92737	6.695233333
Cenpp	chr13:49559427-49748100	1.926493333	1.617049
Bmp4	chr14:47003195-47010274	1.9225113	4.63975
Zfp937	chr2:150043834-150070610	1.921703333	1.959226667
Il16	chr7:90791572-90884000	1.920465333	0.058694467
F420014N23Rik	chr10:126632304-126639699	1.920398	1.298867
Cenpe	chr3:134875526-134936504	1.920156333	3.59502
Mex3a	chr3:88336316-88345316	1.918736	10.90948333
Tln2	chr9:67064891-67407510	1.916896667	3.42232
Ybx2	chr11:69749400-69755101	1.913621333	5.336369667
Cyp4f17	chr17:32643406-32665839	1.912000333	1.477777833
Btc	chr5:91786286-91832020	1.908364333	1.454983
Prr11	chr11:86902657-86922216	1.907199	4.4068509
Stmn1-rs1	chr9:115190209-115191188	1.905108667	4.8463
Fanca	chr8:125792143-125842476	1.903485667	0.496951667
8430419L09Rik	chr6:135148004-135186258	1.902210333	6.706443333
Pla2g7	chr17:43705399-43749150	1.900696667	1.033466667
Slc45a4	chr15:73410720-73455174	1.900157333	0.2995266
Fpgs	chr2:32538128-32549695	1.898021	1.591400667
Mest	chr6:30683505-30698466	1.897924	6.2892396
Pqlc2	chr4:138853919-138866615	1.897686667	1.246053333
Dzip1	chr14:119274741-119322389	1.897144	1.642785367
Wdr31	chr4:62114767-62131906	1.896907333	3.815865333
Ier5l	chr2:30328160-30329719	1.89674	7.41126
Utp23	chr15:51708986-51716168	1.896723333	4.60776
Fam136a	chr6:86315676-86320052	1.895800333	0.756315
Il11	chr7:4723979-4729743	1.895428667	2.990908667
Gsdma	chr11:98525664-98539022	1.894063333	5.618887
Leap2	chr11:53235682-53236638	1.891543	2.08027
Lrrc27	chr7:146398886-146428872	1.888476667	0.770172333
Tead2	chr7:52471122-52488989	1.887923667	17.34669
Dffb	chr4:153338557-153349190	1.887286667	1.386573333
Ubox5	chr2:130415731-130455774	1.887153333	2.647525333
Accs	chr2:93675609-93689933	1.887011	1.690451333
Etv5	chr16:22381385-22439643	1.885532667	22.37613333
Nckap5l	chr15:99252464-99288179	1.885520333	16.65424333
Fscn2	chr11:120222847-120229487	1.885423	0.952886667
Zfp783	chr6:47893173-47904548	1.883183333	3.51815
Parp16	chr9:65062496-65087026	1.882089	2.811083333
E130303B06Rik	chr8:108227551-108232068	1.882079333	4.724313333
Shc4	chr2:125453182-125549884	1.881542667	1.233796667
6430550D23Rik	chr2:155826178-155833713	1.881403333	0.385005333
Mxra8	chr4:155213788-155218211	1.88115	0.91831
Otx1	chr11:21894766-21901654	1.880451333	7.305826667
Hoxc13	chr15:102751561-102759245	1.880053333	2.1315288
Pola1	chrX:90550104-90877494	1.878953333	3.961436667
Hist1h2ae	chr13:23662385-23663089	1.876973333	2.063493333
Pde5a	chr3:122432075-122562292	1.87666	2.30272
Lrrk1	chr7:73403632-73533227	1.876257667	3.657429
Gm10778	chr10:81274930-81289235	1.875199	0.85702

4930579G18Rik	chr14:55269347-55273937	1.874783333	1.792682667
Six5	chr7:19679892-19683694	1.873867333	2.699913333
Dyrk2	chr10:118296404-118305959	1.871695	13.56724
Ncpg2	chr12:117643874-117702004	1.86979	1.440327667
Apol9a	chr15:77234218-77241510	1.868516667	2.347695
Ppp1r26	chr2:28303460-28311028	1.86731	1.680307
Nup62-il4i1	chr7:52071739-52096173	1.86585	1.635256333
Wtip	chr7:34894566-34918287	1.865402467	3.329341667
Trhr2	chr8:124880866-124884646	1.865043333	0.506942
Tead3	chr17:28468617-28487750	1.864885667	2.267752667
Zfp459	chr13:67506649-67522354	1.860903	4.094159667
Tle6	chr10:81053649-81063645	1.859855467	0.031117467
Glt25d2	chr1:154246996-154357825	1.85922	3.5833458
Pfkm	chr15:97923019-97962878	1.858686333	4.26074
Pms1	chr1:53246031-53353840	1.85698	3.862163333
Bambi	chr18:3507954-3516402	1.856681333	2.000256667
A330076C08Rik	chr13:44288957-44311856	1.856203	0.097569333
4930447A16Rik	chr15:37355308-37370399	1.855404667	0.596343333
Bhlhe41	chr6:145811256-145813860	1.854347	1.301356667
Ctsll3	chr13:60899610-60904205	1.853846667	0
Nanos1	chr19:60831889-60835817	1.85366	2.640946333
Retsat	chr6:72548621-72557482	1.852765333	5.91531
Zfp251	chr15:76682573-76701865	1.850528333	0.740467033
Ppp4r1l-ps	chr2:173404820-173485040	1.850492667	3.305273333
Arid3c	chr4:41670867-41678174	1.848886567	0
Gm1943	chr8:111863699-111864808	1.848733667	4.396737333
2810410L24Rik	chr11:120047963-120051170	1.84562	0.386184667
Fmnl2	chr2:52716901-52993236	1.84501	4.754393333
Bmp6	chr13:38437584-38591597	1.844360667	0.647654
Ndn	chr7:69493162-69494813	1.8443095	0.721123333
G0s2	chr1:195098353-195099382	1.843069667	2.179586667
Chrn2	chr3:89557369-89568554	1.8420976	4.754392333
Wfdc12	chr2:164014966-164016294	1.841623	2.026404
100043387	chr2:176083704-176097171	1.841308333	1.13791838
Nap1l5	chr6:58855226-58857120	1.840144333	5.928023333
Prr5	chr15:84511427-84534103	1.840055333	4.182016667
Fxyd4	chr6:117883576-117887353	1.839833333	0.90998
Csgalnact2	chr6:118057470-118089158	1.837715333	1.170410333
P2ry13	chr3:59011813-59014804	1.836853333	0.558431333
Tmem229b	chr12:80062781-80108264	1.836619333	7.91023
Aff2	chrX:66613505-67121212	1.836087733	0
BC037704	chr19:43749667-43751660	1.83547	4.70658
Phxr4	chr9:13234580-13235960	1.834587333	1.491006333
Calr3	chr8:74948081-74967677	1.833743667	0.1401014
Edn1	chr13:42396638-42403358	1.833724667	0.874925667
Xylb	chr9:119266498-119302915	1.833092667	1.518496667
Sned1	chr1:95132473-95193025	1.829696667	2.458983333
Gm6878	chr14:67923724-67933548	1.828586333	0.042149667
Ceacam19	chr7:20461090-20473314	1.827760333	4.194793
1700113H08Rik	chr10:86520790-86693344	1.826653	0.067268167
Lsm5	chr6:56651056-56654693	1.825956667	1.313096667
1700001D01Rik	chr8:63760318-63767669	1.824112667	2.614130667

E130112N10Rik	chr6:125181293-125189952	1.822966667	1.99227
Srcin1	chr11:97370653-97436440	1.822893667	1.96829
Hps1	chr19:42829685-42854466	1.821172667	3.42852
Col9a3	chr2:180332926-180356890	1.819753333	2.921746667
Bub1b	chr2:118423946-118467328	1.819544333	1.429566333
1700102P08Rik	chr9:108295164-108300098	1.819062	2.293094667
Epha2	chr4:140857135-140885299	1.817840667	6.12401
Trim75	chr8:67505549-67511543	1.815983333	0
Tmem150a	chr6:72305476-72309756	1.815536667	5.26254
Grb14	chr2:64750539-64860823	1.814631333	5.352986667
Efemp2	chr19:5474689-5481854	1.813733333	2.126773333
Dusp2	chr2:127161894-127164113	1.81291	1.864670033
Hsd11b2	chr8:108042645-108047888	1.812291333	2.4132648
Wwtr1	chr3:57259565-57379832	1.812036333	2.63319
Agpat2	chr2:26449106-26459730	1.81055	7.863416667
0610010B08Rik	chr2:176266768-176598837	1.81029	0.901790667
Nek8	chr11:77979607-77990168	1.806839333	0.927616
Acnat1	chr4:49456403-49463981	1.802123333	0.108941933
Gm14431	chr2:175197962-175210780	1.801666667	1.815718
Gm15997	chr5:150291630-150340605	1.801096667	0.0262623
Bok	chr1:95582270-95592339	1.800877	3.051653333
Mcm7	chr5:138605816-138613090	1.79848	5.084896667
Fam188b	chr6:55153376-55270216	1.79827	3.357173333
Creg2	chr1:39675250-39708027	1.796461333	2.072199233
Plk3	chr4:116801259-116806557	1.794346667	3.74772
Gm13308	chr4:41812375-41813410	1.792744333	0.685137333
Crocc	chr4:140572551-140616460	1.791556667	1.536971
2310079F23Rik	chr5:35898857-35917719	1.790532667	3.95754
Dok2	chr14:71174187-71178301	1.789992	0.5570276
Spc24	chr9:21559885-21564730	1.788294033	1.084443167
Slc25a26	chr6:94450307-9454646	1.787083333	3.891086667
Kif23	chr9:61765084-61794606	1.786281667	2.593383333
Gm7102	chr19:61250588-61252212	1.786018	0.589846967
A430105I19Rik	chr2:118579880-118588397	1.785760333	3.70359
Tut1	chr19:9028339-9040700	1.785484	2.45829
Gm7008	chr12:40949950-40955770	1.784398333	0.52897
Rasgrf2	chr13:92020011-92901449	1.783714667	0.2305854
Dlx3	chr11:94981430-94986605	1.783266667	12.677833333
Cd46	chr1:196868093-196918442	1.781333333	3.622385333
Gm10814	chr19:6012619-6018459	1.779049667	0
Snx24	chr18:53405315-53550479	1.778554667	1.608388
Vav3	chr3:109143600-109488612	1.778214667	6.699396667
Gm8348	chr14:3518337-3539580	1.778186667	1.138387667
Slco2a1	chr9:102910818-102990179	1.777756333	0.297171333
Opn3	chr1:177592558-177622721	1.776673333	2.841955667
Arhgap30	chr1:173319090-173340370	1.775874667	0.217165867
Anxa9	chr3:95100015-95111098	1.775701533	7.988297
Atp2b4	chr1:135599250-135650324	1.774116667	9.814446667
Trim15	chr17:36997635-37004155	1.774038333	0.457021333
Plcb3	chr19:7028202-7044242	1.770695667	8.841267667
Tgtp2	chr11:48870697-48877714	1.770399667	0
Fam13a	chr6:58883529-58974496	1.767613333	1.137735067

Sp140	chr1:87497277-87541611	1.767273333	2.593827333
Mlf1ip	chr8:47637422-47664938	1.766888333	0.280174667
Pdzd9	chr7:127802809-127813857	1.766246	0.934499667
P4htm	chr9:108481156-108499931	1.765976667	6.197805333
Entpd6	chr2:150574816-150597410	1.763536667	2.3650642
Hck	chr2:152934203-152977177	1.76011	0.869934133
Gm13939	chr2:109742552-109753476	1.759602667	0.1132709
B3gnt4	chr5:123960468-123961891	1.758915401	0.554716667
Paqr3	chr5:97511347-97540615	1.757797	0.254015667
Per2	chr1:93312558-93355905	1.756803333	6.8888
3110062M04Rik	chr6:34821770-34828065	1.75515	1.92849
Cd209c	chr8:3940221-3946863	1.754743333	0.966699667
Cd82	chr2:93259268-93303103	1.753642	4.381522433
Rhbd11	chr17:25971409-25974072	1.752926667	9.129454
Ldlrap1	chr4:134301326-134323919	1.752003333	3.217856667
Pfas	chr11:68799202-68821962	1.751893333	2.829936
Cmb1	chr15:31498666-31519874	1.7508	1.879171333
Zfp775	chr6:48563178-48573226	1.749921667	1.600268
Dcbl1	chr10:51953424-52041183	1.749529667	0.697656667
Adm2	chr15:89153402-89155161	1.749081	0
2610039C10Rik	chr16:90719556-90727616	1.749038333	0.751247667
Sulf2	chr2:165899398-165981183	1.747436	1.395648
Rhpn1	chr15:75534717-75544849	1.746546367	4.33475
4930441O14Rik	chr13:67830198-67857775	1.745256667	1.509566333
Gm16861	chr16:4935163-4939585	1.743941	3.987788667
BC017612	chr9:15309938-15349703	1.743157667	7.961153333
Slc24a5	chr2:124893862-124914413	1.742053333	1.938491333
Gm20337	chr12:82043638-82046386	1.74164	0.197998933
Vash2	chr1:192771524-192803175	1.740946667	0.094831667
Ddx28	chr8:108533515-108535386	1.740466333	2.693683333
Ehd3	chr17:74154180-74181433	1.740202667	2.121160333
Scrn2	chr11:96891265-96895274	1.739586667	0.2772342
6030408B16Rik	chr15:101123642-101127857	1.739549333	0
Agmo	chr12:37968225-38308519	1.738434667	0.43316
Tmem143	chr7:53152438-53172783	1.738308667	4.865143667
H2-Q1	chr17:35457502-35462044	1.737966667	2.748423333
4833442J19Rik	chr6:149090034-149099692	1.737698	2.606526667
Gm266	chr12:112722819-112724034	1.737203333	0
Stard13	chr5:151840089-151992768	1.73534	0.916843333
Gm8579	chr6:3238518-3267019	1.73402	0
Tmem79	chr3:88132574-88138355	1.732825	17.2246
Il20rb	chr9:100358137-100386892	1.730276667	7.210973333
Acsf2	chr11:94418415-94463100	1.728568333	2.803853667
Tmem136	chr9:42916735-42924653	1.728191667	3.339923333
Pofut1	chr2:153067267-153095985	1.726614333	4.213386667
Adam22	chr5:8072351-8368081	1.724029333	2.552363333
Mtfmt	chr9:65283588-65300861	1.723899667	4.639845267
Shb	chr4:45436147-45543700	1.723156667	2.012752667
Cks2	chr13:51740600-51746031	1.717876667	2.570134333
4932416H05Rik	chr2:129624104-129627195	1.716871667	2.620464667
Chrd1	chrX:139720216-139828805	1.715514	1.176224333
Serp1b8	chr1:109486582-109505555	1.715434667	4.072266333

Cdca7l	chr12:119082333-119117179	1.7152422	4.420568
Mdga1	chr17:29964902-30024827	1.71468	0.81003
Elmo1	chr13:20182375-20700222	1.713617667	1.929743333
Stx1b	chr7:134950357-134968045	1.713200333	2.540306
Kiss1r	chr10:79379715-79385017	1.712869	1.028585333
Slc25a47	chr12:110089338-110095025	1.712658667	0.2109918
Slc2a12	chr10:22364816-22423686	1.711261	0.851996667
Gbp6	chr5:105699720-105722718	1.711226	0.747502667
Hist1h1t	chr13:23787679-23788591	1.710190667	0.191732333
Mettl13	chr1:164463802-164478476	1.709890667	2.252081667
Lyrn1	chr7:127039805-127060264	1.709719667	1.945916
9430038I01Rik	chr7:144567251-144602439	1.708406667	1.827271
Zfp689	chr7:134585649-134592672	1.708376667	0.814761967
Zfp777	chr6:47974186-47998113	1.708357667	3.104973333
A330049N07Rik	chr10:72436050-72549453	1.708131667	1.127686667
Gm8898	chr2:175690012-175702830	1.707033333	1.807310667
B4galnt2	chr11:95724872-95776185	1.706869333	0.608563333
1700025G04Rik	chr1:153731653-153937450	1.706376	6.541836667
2810468N07Rik	chr17:25707755-25711988	1.705956667	3.448231
Tpmt	chr13:47118911-47138586	1.70474	3.284602667
Slc35e3	chr10:117170733-117183414	1.703476	5.75226
Gm14474	chrX:10879557-10880047	1.701845333	0.034239333
Phldb3	chr7:25396346-25414316	1.701841	0.80383
Gm5468	chr15:25343946-25382173	1.7017223	0.088122333
Msmg	chr4:43596087-43597366	1.701573423	1.349852167
Zfp444	chr7:6124114-6144706	1.700776667	0.705151333
Tmem86a	chr7:54306009-54310146	1.700034333	2.64553
Usp43	chr11:67668024-67735655	1.699212	3.091423333
Icam1	chr9:20820403-20833240	1.698689	3.995523333
A730056A06Rik	chr7:80458691-80520660	1.696256667	0.053260333
4930447K03Rik	chr13:34176023-34205141	1.695780333	0
Rnf208	chr2:25098448-25099781	1.694911	8.2198
Gtpbp3	chr8:74012001-74017299	1.693453333	3.0706
Iqgap2	chr13:96397131-96661877	1.689995333	2.142326967
Tlcd2	chr11:75281580-75284146	1.689792367	2.953186667
Mtus2	chr5:148768895-149127641	1.688823333	1.309998667
Cdc6	chr11:98769202-98785256	1.687746667	2.108556667
Hist3h2bb-ps	chr11:58767549-58768014	1.68592	1.033196667
Notch1	chr2:26313421-26359342	1.685593667	10.22816333
1700093K21Rik	chr11:23416202-23419942	1.685288333	0.169935333
Fxyd1	chr7:31836696-31840675	1.685011667	0
4831426I19Rik	chr12:106168158-106248019	1.683212667	5.269896667
Gm5766	chr16:4229228-4231205	1.682346667	1.831443333
Gabrp	chr11:33450780-33478957	1.682000333	26.06516667
Cldn17	chr16:88506051-88507223	1.681896667	1.578353333
Kifc3	chr8:97623727-97666440	1.681187	0.285224667
Mybpc2	chr7:51757068-51780039	1.680627333	1.555248667
6430573F11Rik	chr8:37552244-37576067	1.680036667	1.0989832
Hist1h4m	chr13:21903614-21904019	1.679946821	0.807347651
Duox1	chr2:122141407-122173708	1.678703333	3.156501333
Plekha7	chr7:123267631-123333355	1.678199	2.975976667
Fam111a	chr19:12648014-12664186	1.678130667	2.340383333

Esyt3	chr9:99210385-99258949	1.67796	1.40063
Wasf1	chr10:40603339-40658375	1.675881	2.518513667
Sgcz	chr8:38585607-39724562	1.675483333	0
Cdnf	chr2:3430336-3443648	1.673693333	1.137952667
Cited4	chr4:120339167-120340425	1.673601333	4.19616
Zfp324	chr7:13551212-13559171	1.672902	1.560886667
Asap1	chr15:63920100-64214481	1.671923	5.670666667
Slc7a3	chrX:98274559-98280691	1.671653333	0.631343
Gpatch3	chr4:133130659-133140157	1.671539	2.884827233
Mpp4	chr1:59177778-59220233	1.670335	0.087364333
Serpinb3c	chr1:109167777-109174948	1.669586	4.58697
Zfp953	chr13:67440244-67461508	1.668796667	2.953068667
Gm10768	chr19:43913292-43915335	1.66858	2.660706667
Ulk4	chr9:120873571-121186290	1.667903333	3.212716667
Aph1a	chr3:95697918-95702213	1.667683	4.2899
C030037D09Rik	chr11:88579956-88589886	1.667606333	0.424344667
Zc3hc1	chr6:30316387-30341010	1.6669	0.803511333
Mns1	chr9:72286335-72306383	1.665998	2.580033333
Skp2	chr15:9041741-9070207	1.663833333	5.348053333
Olfra460	chr6:40521386-40522331	1.663473333	0
Zfp101	chr17:33517123-33531582	1.661848333	1.384150667
Lce3b	chr3:92736900-92738018	1.659314667	6.538303333
Arsa	chr15:89302906-89307855	1.658862667	0.3435265
D630029K05Rik	chr10:116401795-116406163	1.658086667	0.890156667
Ninl	chr2:150760254-150835134	1.657736667	2.432816667
Tgm5	chr2:120871846-120911495	1.657329333	21.72373333
Gm14482	chrX:10892214-10892723	1.657031667	0.0648469
Nat1	chr8:70014656-70016002	1.656545	0.148344
Thg1l	chr11:45761655-45768996	1.654959333	3.55156
Spata2l	chr8:125756157-125760109	1.65481	9.252983333
Map2k6	chr11:110260435-110374951	1.65326	8.231095667
3110009E18Rik	chr1:122017763-122084766	1.653183333	2.77593
100043387	chr2:176493061-176506522	1.652843	1.164487362
Ranbp17	chr11:33111793-33413746	1.651692667	2.374387667
2310020H05Rik	chr13:99846482-99857876	1.649064333	0
Gm9054	chr3:95789432-95790890	1.647957667	0
A430088P11Rik	chr15:80521454-80528040	1.647555333	6.122594833
Ccdc106	chr7:5008327-5012386	1.646878333	0.245580667
Zfp874b	chr13:67572448-67585189	1.646169333	0.942771667
Lpin3	chr2:160706405-160731736	1.645896667	2.184579667
Mxd3	chr13:55426528-55431091	1.645806667	0.674684333
4930572J05Rik	chr15:74551663-74554803	1.645055067	3.706933667
2010308F09Rik	chrX:12811766-12824859	1.644439333	1.04967
Vav2	chr2:27119154-27282345	1.643863	0.724293667
Gpd1	chr15:99548023-99555438	1.643391333	12.28729667
Myl7	chr11:5796639-5798785	1.642992667	0
Chst8	chr7:35459486-35597730	1.64225	5.905543
C230081A13Rik	chr9:56048935-56265857	1.641936667	3.489918333
A230056P14Rik	chr7:63217900-63235466	1.641010333	0.596181333
Mapt	chr11:104092749-104193407	1.641003333	8.894626667
LOC330599	chr7:105325703-105333309	1.640663333	1.208007667
3010001F23Rik	chrX:148803114-148851245	1.640636667	1.499251667

Shisa7	chr7:4777153-4796298	1.640327	4.247296667
Gm2011	chr3:40650920-40679531	1.639853667	6.860313333
Top3a	chr11:60553560-60590867	1.639738667	1.693730933
Zfp429	chr13:67490264-67500703	1.639365	0.598495333
6720463M24Rik	chr14:99445595-99473326	1.638957333	2.780716667
Ccdc30	chr4:118996443-119088126	1.637693667	1.984064333
Yy2	chrX:154004050-154006917	1.637634	0.661323333
Gm14634	chrX:12339403-12398618	1.636816667	0.0193421
Ptpru	chr4:131324371-131394193	1.636237333	5.500736667
Pyroxd2	chr19:42800347-42827265	1.6358	1.582603667
Tmem163	chr1:129386918-129574598	1.633592	2.563403333
Tuba8	chr6:121160787-121176115	1.632987333	6.653446667
Il17rd	chr14:27852186-27920472	1.630153333	0.436779967
Wif1	chr10:120471059-120537698	1.629799667	1.011263333
2610020C07Rik	chr16:11203475-11225889	1.629066667	2.190961667
Abca8b	chr11:109794719-109857130	1.628516667	0.050723667
Dgat2	chr7:106302172-106331223	1.628144333	11.9683
Ltbp1	chr17:75404868-75792307	1.624450667	8.35287
Spred1	chr2:116947185-117005072	1.623311	5.763283333
Gcnt1	chr19:17400630-17447334	1.621949	3.15507
N4bp211	chr5:151374217-151397100	1.619608667	1.219776667
Top1mt	chr15:75487462-75509220	1.619406667	0.911946
Fbxo24	chr5:138053732-138066306	1.6193	0.589835
Zfp759	chr13:67229163-67242723	1.618890333	1.800423333
Tulp2	chr7:52769075-52777973	1.618686933	0.367487667
Spata24	chr18:35816342-35821840	1.61853	1.823537667
Tradd	chr8:107782474-107788494	1.61745	6.09062
Gsdmc	chr15:63607525-63640294	1.617063333	2.629136667
Chmp6	chr11:119775123-119780866	1.615983	3.461497333
Zbtb45	chr7:13591014-13595149	1.615975667	2.570222333
Hoxa2	chr6:52112509-52114830	1.615046667	0.019092233
Pcdhb21	chr18:37673305-37676017	1.614228	2.047178667
Fancg	chr4:43015208-43023173	1.61296	9.749029333
Mlf1	chr3:67178018-67203922	1.612818667	5.700694333
Zfp174	chr16:3847222-3858880	1.611926333	2.314086667
AU022252	chr4:118897742-118905329	1.611004333	5.481823333
Zfp764	chr7:134547181-134550336	1.60896	8.212916667
Wnt4	chr4:136833549-136855416	1.606476	18.97904
Gm15787	chr5:110596526-110605523	1.604689333	6.795471667
Lhfp11	chrX:141724901-141783437	1.603787667	5.021166667
Gm10248	chr14:23857416-23913793	1.603064	0.499997167
Zdhhc23	chr16:43969258-43979163	1.60289	4.60266
Tdg	chr10:82092582-82113239	1.602773333	2.160048667
Tsku	chr7:105499177-105509838	1.601326	2.88337
Rab30	chr7:99890223-99985627	1.600107667	0.511471667
Sec22a	chr16:35311216-35364004	1.599434	1.180953
8430403D17Rik	chr11:85515701-85533246	1.598410667	1.76536
2310061N02Rik	chr16:88707415-88708207	1.59737	10.21847167
Spred3	chr7:29943847-29953666	1.596458333	5.003173333
Rgs20	chr1:4899656-5060366	1.595919667	3.30759
Arg2	chr12:80231774-80257288	1.595823333	2.70462
Med18	chr4:132014643-132019836	1.595226667	7.373296667

4930487H11Rik	chr1:62837491-62841306	1.59371	0.368645667
Tead4	chr6:128177160-128250831	1.590808	0.173305667
Elac1	chr18:73894691-73914133	1.58955	3.803183333
Oxtr	chr6:112423677-112439802	1.586982333	0.594303333
Ssxb8	chrX:8262456-8267970	1.58683	1.019563333
Bri3bp	chr5:125921937-125941255	1.585456667	2.004003333
Phactr3	chr2:177853679-178073197	1.584990667	1.234216333
Enox	chrX:100688914-100701764	1.583163333	4.444306667
Asap3	chr4:135762279-135802488	1.581237533	1.861516
Prc1	chr7:87439350-87461145	1.580556667	3.208415
Sh2b2	chr5:136694018-136720773	1.580235	1.768868333
Acss2	chr2:155343778-155388479	1.578386667	3.077364
Bdkrb2	chr12:106801381-106831281	1.577182733	0.742715
Fam20c	chr5:139231034-139286017	1.5725776	1.901446667
5430401F13Rik	chr6:131493779-131503775	1.572468	0
1190003J15Rik	chr7:148021394-148023867	1.572436667	5.894553333
Chpf	chr1:75471143-75476046	1.572020333	3.879553333
Sox6	chr7:122614857-123182258	1.571925667	3.231846667
Atp6v1e2	chr17:87343448-87347227	1.571773333	0
Rnf24	chr2:131124223-131178628	1.571373333	5.565536667
Fbxl15	chr19:46402673-46404936	1.570346333	2.142670333
Tmem28	chrX:97016407-97041684	1.569290333	1.3087693
Prss30	chr17:24109093-24112197	1.568994	0.101438667
Trpv6	chr6:41570617-41586404	1.568888333	4.13386
Ctsw	chr19:5465239-5468498	1.567124333	0
Pcdh7	chr5:58109259-58523479	1.56422	6.544183333
Ggn	chr7:29955228-29958952	1.562849333	3.089235
Epm2a	chr10:11063242-11177275	1.56255	3.140925
Serpina1a	chr12:105091504-105101829	1.562483333	0.4233673
Ttyh2	chr11:114536781-114582298	1.561733333	0.173872333
4930563E18Rik	chr18:10706857-10711830	1.559124	0
Plce1	chr19:38598686-38859590	1.558857333	1.302578667
S100a3	chr3:90404136-90406624	1.557416667	0
Slc30a2	chr4:133898960-133910399	1.557084333	0.814298333
Moxd1	chr10:23943322-24022589	1.55657	5.787355333
Mr1	chr1:156975007-156993910	1.556123333	9.857523333
Plscr5	chr9:92087773-92104536	1.556102667	0
L3mbtl1	chr2:162769200-162800258	1.555873333	0.346643333
Emid1	chr11:5006268-5052225	1.555684	0
Enkur	chr2:21102357-21126992	1.554924	4.281323333
Guca1b	chr17:47522341-47529916	1.55479	0.674186667
Jam2	chr16:84774367-84826620	1.554783333	1.835743333
Sla2	chr2:156698657-156712814	1.554152333	0.324251333
Foxo4	chrX:98449866-98456212	1.553438	4.154939667
Fgfr3	chr5:34064372-34079717	1.553380367	4.75443
Clca4	chr3:144485586-144512266	1.552292	12.00449333
Cep70	chr9:99143886-99200822	1.552085667	5.077446667
Kcnmb3	chr3:32371242-32390891	1.550264333	0.693786667
Aldh1a3	chr7:73535778-73572363	1.548743333	1.393062
4921525B02Rik	chr14:104092199-104098649	1.548013	2.34266
Pcyox1l	chr18:61856490-61867289	1.546732667	5.088044
Akr1b3	chr6:34253929-34267489	1.546542598	0.917610763

A330050B17Rik	chr3:35898834-35907750	1.54578	0.172492
Kalrn	chr16:33969158-34514113	1.545236667	5.5616
Slc16a7	chr10:124664540-124765591	1.543902333	3.52422
Atl1	chr12:70994091-71065072	1.543816333	3.838616667
4930512B01Rik	chr12:70891330-70942867	1.54302	2.593984333
Khdrbs3	chr15:68758849-68923948	1.540754	4.42197
4933416M07Rik	chr8:28253381-28260178	1.540235	0.293212467
Dock8	chr19:25074018-25276922	1.539270333	5.6724
0610040B10Rik	chr5:144090986-144094383	1.538256667	0
Pwp2	chr10:77633654-77647894	1.534340667	0.793804667
Hsd17b14	chr7:52810297-52822691	1.532198667	0.500252667
Gm19557	chr19:47587471-47591068	1.531448333	0.414933
Dbn1	chr13:55574788-55589437	1.531420667	9.54181
Oplah	chr15:76127032-76137675	1.531407667	0.355531333
5031439G07Rik	chr15:84776149-84818401	1.530335333	7.180856667
Stil	chr4:114672722-114715803	1.529491333	4.843896667
Rpusd2	chr2:118860525-118867933	1.529248	2.574116667
Hdc	chr2:126419403-126444401	1.526220667	4.689066667
Prkd1	chr12:51442218-51750210	1.526205767	0.756888
Il4i1	chr7:52091657-52096179	1.525357333	0.279175652
A630089N07Rik	chr16:98283676-98303604	1.524377333	1.648583333
Gm17296	chr8:128950551-128998965	1.524203333	1.32968
Mrgpre	chr7:150964267-150970405	1.522955667	3.315653333
Gm4890	chr8:81818976-81831673	1.522526667	0.632674
A430110N23Rik	chr7:4877445-4896399	1.520206	0.409211667
Zfp14	chr7:30821377-30836415	1.51964	1.492517667
1520402A15Rik	chr4:115809332-115817221	1.51939	1.582126333
Gsta3	chr1:21230669-21255640	1.519156	7.5392
Slnf5	chr11:82765603-82778352	1.518953333	0.0522744
Gp2	chr7:126586057-126602786	1.518263333	11.07750667
Il3ra	chr14:15179008-15188004	1.517138333	0
4930473A02Rik	chr2:130369526-130389485	1.516567	1.538990667
Olfr992	chr2:85239758-85240688	1.516203333	0
1810041L15Rik	chr15:84209632-84277527	1.513805267	2.167231667
A130049A11Rik	chr3:103768458-103772239	1.513763333	1.304262
Usp28	chr9:48793489-48850622	1.513377333	3.92972
Dck	chr5:89194037-89212302	1.512742	5.312028667
Fam71f2	chr6:29231140-29240676	1.511815333	0.440723333
Gm14436	chr2:176131456-176144719	1.511643333	0.826602667
Poll	chr19:45626765-45635033	1.511120333	12.08693
Gm14393	chr2:174887049-174893264	1.510323333	0.590482333
Cpxm2	chr7:139234492-139346424	1.510043	0.943750667
Slc43a3	chr2:84776802-84798666	1.50925	7.443366667
Zfp575	chr7:25368856-25372660	1.508542667	0.124334767
Pde8b	chr13:95794059-96020259	1.507709333	1.980663333
1700001L19Rik	chr13:68736315-68753108	1.507143333	0.122018
Lass4	chr8:4493404-4526079	1.506351667	11.65628333
AI467606	chr7:134234949-134237563	1.505991667	3.949487
9530080O11Rik	chr4:95626401-95634346	1.504060333	1.081588333
D330028D13Rik	chr6:49317737-49339903	1.502142	6.447413333
Ccdc126	chr6:49269351-49291580	1.501560333	1.255790333
Gm10785	chr16:91689142-91716000	1.49982	0.249803033

Plb1	chr5:32535080-32666729	1.499666667	1.466766667
Nfkbie	chr17:45692664-45700117	1.499297	1.403873133
Fam109a	chr5:122299036-122304608	1.497918	3.290297
Ccrl2	chr9:110957338-110959774	1.497686667	1.458391
C130083M11Rik	chr5:52591222-52607672	1.49673	1.950608333
Gprin3	chr6:59302454-59376284	1.496312	0
Plcd1	chr9:118980645-119002614	1.495797333	5.337961
Erc8	chr13:108948931-108985175	1.49465	4.122403333
Fgl2	chr5:20878490-20884204	1.4944466	0.562555667
Chsy1	chr7:73254400-73318684	1.494069667	2.651113333
Tbc1d4	chr14:101841576-102008408	1.492267333	1.359722667
Magee1	chrX:102315734-102319250	1.491998667	4.59499
BC065397	chrX:133277495-133337900	1.491797333	2.226493333
Sfxn2	chr19:46647854-46671390	1.490813333	2.65937
B3galt6	chr4:155363574-155366787	1.49055	3.152323333
D630045J12Rik	chr6:38073173-38204009	1.490047667	9.00919
Zfp771	chr7:134388039-134398315	1.490035667	0.324694667
Kcng3	chr17:83985296-84031235	1.489614667	19.42706667
Hyal2	chr9:107471493-107475109	1.489157667	0.924543333
Spryd4	chr10:127646965-127648850	1.488724	5.394330333
Oas1h	chr5:121311430-121323514	1.488272667	1.78559
Lrrc29	chr8:107836239-107850176	1.487632333	1.3573913
AA415398	chr4:119202922-119211374	1.48697	1.930643333
Prrt1	chr17:34766630-34769205	1.486345667	3.575338667
Ube2j2	chr4:155317939-155333713	1.485036667	1.855888333
Rec8	chr14:56237002-56244232	1.483925467	0.860113333
1810012K16Rik	chr8:23509192-23510063	1.483821667	0
Lipt2	chr7:107307786-107309441	1.483393333	6.698756667
Tprg	chr16:25286902-25422430	1.482481333	5.324338667
Tspan9	chr6:127911417-128093596	1.480303	6.92142
Spin2	chrX:150266835-150268783	1.479636667	6.727803333
Nptxr	chr15:79616780-79635139	1.478523	0.624625667
Barx2	chr9:31653628-31720870	1.477786667	12.65583333
Serpnb9f	chr13:33415945-33427235	1.476830333	4.36389
1810044D09Rik	chr6:91390980-91391749	1.47378	5.398233333
Snx10	chr6:51473901-51540669	1.472221	2.930414333
4930583H14Rik	chr3:51192334-51200469	1.47185	12.91113
Gm20554	chr13:72760913-72766012	1.47123	1.831673333
Gm11696	chr11:109216091-109224968	1.46932	1.107213333
Ftsj2	chr5:140803627-140807852	1.467308033	0.518413333
Gm10653	chr9:62689283-62709831	1.467053333	3.62102
Col9a2	chr4:120712170-120727930	1.466074667	0.159169333
Upk3a	chr15:84847570-84852990	1.465503333	2.10353
Stk32a	chr18:43367350-43477135	1.463378	0.009461767
Dnahc8	chr17:30763880-31012209	1.458455667	2.123257667
Rnf133	chr6:23598868-23600305	1.458444667	7.15611
Gm10069	chr6:128388774-128453299	1.458114333	1.129743333
4930563E22Rik	chr11:72028639-72031952	1.458024667	1.619002
Tcam1	chr11:106137985-106149457	1.455546	0
Abo	chr2:26698022-26720499	1.455423333	0.244177333
Gabre	chrX:69502770-69520060	1.454516667	0.087042333
Piwil4	chr9:14506801-14545177	1.453632667	0.168733

Agrp	chr8:108090597-108092198	1.453502333	0
Kif19a	chr11:114626702-114651889	1.452554333	7.622936233
Zfp28	chr7:6336027-6349347	1.452241667	3.471253333
Bglap	chr3:88187416-88188386	1.451307333	188.9543333
Car5b	chrX:160414753-160465942	1.449715	1.090751
Card14	chr11:119176100-119206689	1.449656667	0.560452767
Vmn2r25	chr6:123772831-123803208	1.449143667	0
1700015E13Rik	chr1:172238991-172242256	1.448911667	0.301391667
Dus4l	chr12:32324919-32339691	1.448757	1.644594667
Slc16a10	chr10:39753340-39862060	1.448542667	6.150146667
Gm14436	chr2:175295560-175308823	1.44838	0.822632667
Olfr1381	chr11:49365250-49366186	1.447325	0.640867667
2310079G19Rik	chr16:88627032-88627911	1.447016667	6.2398
Tm6sf2	chr8:72596830-72603951	1.446961	0.199799333
Maml2	chr9:13424432-13513977	1.445418	6.138303333
Orc1	chr4:108252058-108287436	1.444732	0.142606533
4930529M08Rik	chr2:145760519-145789962	1.443768233	0.020788467
1810062G17Rik	chr3:36374858-36381221	1.443743667	0.040073333
6530401N04Rik	chr12:53098493-53107488	1.443606	2.28697
Mybl1	chr1:9658915-9690290	1.443603333	4.71928
Kcnk5	chr14:20959279-21001004	1.44248	15.70872333
Trim34b	chr7:111477984-111485131	1.441359667	0.804721667
Pnma1	chr12:85487080-85489439	1.439552667	2.263418
Dok1	chr6:82980929-82983465	1.438450667	1.786105333
Nod1	chr6:54873935-54922606	1.434821667	2.533188667
Pld1	chr3:27837601-28032284	1.434672333	1.906076
Hoga1	chr19:42120340-42145429	1.434236667	0.019708667
Btbd8	chr5:107867015-107920615	1.434115333	0.431596
Arhgap31	chr16:38598455-38713148	1.433763333	1.577241333
Cntln	chr4:84530230-84777822	1.433130333	2.233646667
Fhod1	chr8:107853059-107871870	1.43297	0.592657
D330050I16Rik	chr19:5388335-5390069	1.431362867	5.146656667
Heyl	chr4:122910798-122927113	1.429042333	0.381743333
Zfp2	chr11:50712213-50729663	1.429030667	4.548794667
Slc45a2	chr15:10930475-10958988	1.428925233	0
Prkar2b	chr12:32643343-32746144	1.428742733	1.435023333
Pvt1	chr15:61869541-62082530	1.428609667	0.029723667
4930470H14Rik	chr17:4044657-4082995	1.428178667	0.389538667
2310007B03Rik	chr1:95047931-95057525	1.422956667	1.560983
Abt1	chr13:23510229-23515735	1.420777	1.168121333
Zfp382	chr7:30906966-30920051	1.419761	1.562493333
Dkk3	chr7:119259532-119302571	1.418575333	6.904313333
Mab21l1	chr3:55586431-55589209	1.418434	0.463095333
1700109H08Rik	chr5:3571715-3584341	1.415688	1.647037333
Tbc1d24	chr17:24312375-24342507	1.41538	4.57025
Ccna2	chr3:36463786-36470918	1.415193333	1.527638333
4931440F15Rik	chr11:29722394-29725668	1.414723	0.225855333
Blm	chr7:87599878-87680005	1.413626667	1.646963
1700123O21Rik	chr16:5975679-5998589	1.412033333	0
Gm8580	chr10:93127988-93128599	1.411797	1.5388061
Bcl2a1b	chr9:89094110-89102676	1.411146667	0
Kif26b	chr1:180459255-180862988	1.411080667	1.095457

Spock2	chr10:59569004-59596661	1.4107595	0.354066667
Rwdd2b	chr16:87433575-87440837	1.409182667	3.172183
6330407J23Rik	chr10:28863801-28919434	1.408967	0.061617333
Exog	chr9:119354040-119374636	1.408915667	1.861040333
Dock6	chr9:21604623-21657079	1.40888	2.152326667
Gucy2e	chr11:69031618-69050524	1.408293333	0.455165667
Tmem110	chr14:31638779-31690396	1.407619333	2.282165667
Tcp10a	chr17:13254056-13569627	1.407432	0.892747667
Tmem97	chr11:78355318-78364237	1.405818	10.61733333
Tekt4	chr17:25608534-25613539	1.403983667	1.871847133
Cbln4	chr2:171861835-171868966	1.40367	4.86854
1700022P22Rik	chr1:192860700-192866820	1.403563333	0
Slc22a15	chr3:101659693-101728376	1.402825333	3.583706667
Gm14431	chr2:175917414-175930232	1.402508333	0.410854333
G630025P09Rik	chr11:69617170-69619540	1.401571333	0.564005699
Alms1-ps2	chr6:85742110-85754051	1.400583333	0.795273667
Apex2	chrX:147006049-147022692	1.399346667	1.069557667
4930412C18Rik	chr4:9697731-9750558	1.399059	0.445432333
Snai2	chr16:14705951-14709475	1.398885	1.534403333
4931408A02Rik	chr16:90831103-90905130	1.398843667	0.946394333
Chpf2	chr5:24092567-24098304	1.397712	1.149927
Noxo1	chr17:24833178-24837474	1.397196667	2.118029667
4933409K07Rik	chr4:42452732-42476567	1.396256667	0.189152667
Serpinb9	chr13:33096409-33109824	1.394733333	9.88429
Jmjd5	chr7:132588133-132605782	1.390983333	1.756709667
Vwde	chr6:13135609-13174965	1.39058	26.12848333
Fam184a	chr10:53352951-53470715	1.389726667	0.797035333
Gpr172b	chr15:76369372-76372560	1.389065	3.035728667
Cyp4a12b	chr4:115084228-115111639	1.3876691	10.4619
Gm17762	chr2:17948875-17952204	1.386425	0.195667668
Gmfg	chr7:29222465-29231914	1.38561	0.48365
Tfpi	chr2:84273016-84316932	1.38516	3.57553
Nrip2	chr6:128349783-128358953	1.38481	1.015626333
Ncam1	chr9:49310250-49607174	1.38389	2.97646
Gm11110	chr17:57231445-57245365	1.383313667	8.20105
Plcl1	chr1:55462789-55811129	1.381802467	0.485447
Cchcr1	chr17:35654060-35667960	1.381370667	1.830926667
Cntnap1	chr11:101037430-101052034	1.381241667	0.636805667
Efna2	chr10:79642226-79652755	1.380862	0.649737
Pappa	chr4:64785207-65018543	1.379963333	5.725801667
Tlr2	chr3:83640193-83645530	1.379022667	2.229388667
Aif1	chr17:35307936-35312946	1.378996667	0
Foxa2	chr2:147868613-147872705	1.378040333	21.0394
Nynrin	chr14:56472951-56493573	1.377793	1.394559667
Spon2	chr5:33556166-33560887	1.376623333	29.20676667
Cct8l1	chr5:25021884-25023845	1.37459	0
Mfsd9	chr1:40828884-40847502	1.374002333	2.06284
AI427809	chr4:53274227-53283104	1.372812667	0
Pde11a	chr2:75829188-76176710	1.372809667	0.939713333
Cds1	chr5:102194148-102252871	1.372659667	6.02339
Tmem178	chr17:81343971-81401156	1.372564667	1.6050818
Myot	chr18:44493727-44515376	1.372033333	0.217887733

Ptprt	chr2:161353358-162486883	1.371874	6.051883333
Spock1	chr13:57522555-58009693	1.369170333	0.125061667
Mettl1	chr10:126478987-126482517	1.368329333	23.50176133
Bbs12	chr3:37211475-37220373	1.367738667	1.441673333
Gpr126	chr10:14122390-14264842	1.367031	0.873401333
Trim45	chr3:100726415-100740848	1.365841333	1.284522333
Nxph3	chr11:95371159-95375879	1.364287667	11.92106333
Dsel	chr1:113755278-113761495	1.364252	4.2198
Jrk	chr15:74532841-74539752	1.364136667	0.443961667
Cdt1	chr8:125091914-125097030	1.3625305	2.413782333
Cables1	chr18:11997782-12104136	1.361600333	3.23104
Cd302	chr2:60090049-60122475	1.361349667	16.75979333
Ppp1r27	chr11:120411288-120412446	1.360458333	1.072123333
Cspg4	chr9:56712910-56747677	1.359480333	0.861884467
Nt5e	chr9:88222446-88266927	1.358173333	2.93637
Gm527	chr12:66018897-66025578	1.35742	2.980683
Map3k8	chr18:4331324-4352951	1.357193	0.378600333
Gzmm	chr10:79151764-79158005	1.355211	0.46901
Ppm1m	chr9:106097283-106101564	1.351603367	4.40912
Gm17769	chr10:76881120-76883684	1.348215	0.143155667
Gpr162	chr6:124808462-124813935	1.347326667	0.762580333
9530053A07Rik	chr7:28914484-28949830	1.345565	0.92012
Dcaf12l1	chrX:42139743-42143374	1.344532333	1.104139
Mmp2	chr8:95351226-95377319	1.344385	3.19129
Acad10	chr5:122071037-122110519	1.340297333	2.381723
H60c	chr10:7078769-7090333	1.339942	10.13828
Tmtc2	chr10:104624719-105011535	1.339863333	1.796023333
Fkbp7	chr2:76501090-76511155	1.338874	5.343993333
Kcnv1	chr15:44937829-44946480	1.338380333	0.218798767
Cd59b	chr2:103911166-103925114	1.338152333	0.355096067
ltpr1	chr6:108163089-108501110	1.337006	5.086676667
Rhod	chr19:4425456-4439424	1.336326667	7.575813333
Map3k14	chr11:103081077-103128715	1.335867	0.948045667
Fzd7	chr1:59538990-59543799	1.335148533	9.156786667
Edn2	chr4:119834028-119839965	1.3346829	1.961607667
Zfp493	chr13:67880629-67890017	1.333401667	0.055025667
Khdc1b	chr1:21373636-21376465	1.333173333	0.056434867
Fam114a1	chr5:65361313-65433140	1.33301	2.871200333
Gm13629	chr2:66278936-66385529	1.332978333	0.5971807
Begain	chr12:110270391-110306427	1.332576333	1.271766667
P2ry1	chr3:60806716-60812901	1.332138333	3.358576667
Prlh	chr1:92849684-92850589	1.33202	0
Tceal5	chrX:132735489-132738390	1.330662333	0.771633667
Zfp786	chr6:47769264-47780504	1.330644233	1.607698667
Rtn4rl1	chr11:75007494-75081264	1.330033333	7.829913333
Ephx4	chr5:107832531-107859050	1.330033	3.001103
Ankrd23	chr1:36587378-36592574	1.327382333	4.95727
Tesk2	chr4:116393559-116476853	1.327342667	1.405625667
Slc12a8	chr16:33518414-33664221	1.325993667	0.166804667
A530013C23Rik	chr2:167516707-167522913	1.325468667	0.637046333
Unc13a	chr8:74150611-74195656	1.323031	3.372613333
Gm10731	chr3:40657397-40659207	1.32281	0.460589267

Cage1	chr13:38097920-38128806	1.322785	0.598053
Mkrn3	chr7:69562478-69565025	1.322753333	0.864656667
1600002H07Rik	chr17:24352000-24357714	1.320153	2.588946667
Aldoart1	chr4:72511616-72513668	1.316826667	0.715848
Arxes2	chrX:132528358-132529898	1.316482333	5.448606667
Gm9047	chr6:29421436-29423429	1.316372333	2.107743333
Crem	chr18:3266351-3337587	1.314683333	9.73582
A530072M11Rik	chr4:16091256-16193372	1.313790167	0.955357733
Nphp4	chr4:151852250-151937293	1.313388667	1.096259
Lcn2	chr2:32240156-32243259	1.312986667	20.41527
Fgf22	chr10:79217863-79219706	1.312908333	3.051233333
Ttyh1	chr7:4071134-4087843	1.312377	0.861658
Pctp	chr11:89844730-89864208	1.311104333	5.658523333
Ntf3	chr6:126051429-126116762	1.310996667	0
Slc5a10	chr11:61486283-61534301	1.307358	0.072429033
4930545L23Rik	chr2:134995308-135041352	1.306936667	5.4971
Fam55b	chr9:48126086-48148981	1.305904667	0.772356333
Gpr133	chr5:129602624-129710474	1.303624	0.737955667
Nek6	chr2:38367216-38443010	1.303355667	0.713743667
Mst1	chr9:107982766-107987358	1.303016	4.401681333
2410021H03Rik	chr17:69624701-69626546	1.302963333	2.31671
Gstt1	chr10:75246557-75261329	1.302778	5.363732333
Pitpnm3	chr11:71861029-71949391	1.301771	3.230902
Tyms	chr5:30384739-30400165	1.3016741	4.655338667
Nap1l3	chrX:119508169-119510994	1.300328333	2.509376667
Tspyl5	chr15:33613629-33617638	1.298933333	1.897554667
Unc79	chr12:104187068-104422207	1.298839667	0.615021667
Lrrc17	chr5:21049344-21081720	1.297962333	0
Il28ra	chr4:135242371-135264095	1.297117	5.31269
Lrrc32	chr7:105642731-105650340	1.295335	0.35446
Det1	chr7:85972359-85992097	1.292683333	3.277573333
Pcdhb10	chr18:37571327-37574168	1.292355667	3.304891467
Pak3	chrX:139953133-140232339	1.291582	1.853981667
Antxr1	chr6:87083846-87285769	1.291465333	14.13647667
Ltbp4	chr7:28090159-28122631	1.291421333	12.28429
Hlf	chr11:90197848-90252231	1.2886655	3.533679667
Gm15663	chr10:105011606-105020926	1.288222333	1.997617333
Hist1h1b	chr13:21871751-21872423	1.286213333	3.99851
Rab26	chr17:24665998-24670692	1.285393333	0.050431633
1810010D01Rik	chr7:152391722-152394024	1.284639333	0
Angptl1	chr1:158769153-158791209	1.282826333	4.502675667
Ccdc122	chr14:77436578-77512011	1.282425	0.442001667
Zfp712	chr13:67139529-67162106	1.281927	2.168004667
Fabp3	chr4:129986021-129992707	1.281048333	0.147033
Prss3	chr6:41323757-41327612	1.280258333	0
1110021L09Rik	chr10:23516791-23547774	1.279476	1.680299433
Hsd3b4	chr3:98303002-98314490	1.279273333	0
Hsd3b4	chr3:98356473-98367961	1.279273333	0
Dnd1	chr18:36923324-36925868	1.279176	0.080164
Ccdc146	chr5:20798778-20930495	1.278513333	4.308857333
1700034J05Rik	chr6:146899822-146902943	1.278060333	2.007715333
Hpca	chr4:128788818-128798984	1.277706067	6.577829

Zfp30	chr7:30569808-30579559	1.276459667	1.187978633
Maf	chr8:118227152-118230794	1.274797	7.740703333
St3gal4	chr9:34854163-34924395	1.274607667	3.63541
1700037C18Rik	chr16:3905797-3908689	1.274376667	1.642077333
Nsg1	chr5:38528431-38550706	1.27297	0.641356567
H2-M10.2	chr17:36421225-36423366	1.272351	0
B130034C11Rik	chr16:87496317-87504283	1.271924333	0.140646333
Gm10714	chr2:173950538-174009419	1.27144	0.253845
Gm4262	chr16:11008990-11015277	1.269832	0.0563914
2610306M01Rik	chr6:86798400-86799434	1.268928667	1.030690333
Prdm1	chr10:44156980-44178493	1.268560333	4.138596667
Ckm	chr7:19996442-20006932	1.267938333	0.027919133
Cdh4	chr2:179177182-179634080	1.267327667	0.945835333
4833419F23Rik	chr18:4353544-4368943	1.2673	0
Enthd1	chr15:80282669-80390900	1.266977667	0
Tnfrsf17	chr16:11313901-11320161	1.266054333	0
A330069E16Rik	chr2:91077302-91078514	1.264749	2.296286667
LOC329427	chr2:73434582-73454069	1.263771	1.195932333
Slc2a13	chr15:91098121-91403692	1.263695	0.778672733
Oat	chr7:139749157-139768081	1.263063	12.74213
Rab19	chr6:39331426-39340378	1.262040667	4.609553333
D6Ert474e	chr6:143194407-143246399	1.261188333	0
Arhgef37	chr18:61653447-61696190	1.261057667	2.845276
Popdc2	chr16:38362258-38378302	1.2587434	0
Chpt1	chr10:87935557-87966715	1.258066667	7.66918
LOC100859962	chr7:87207595-87220143	1.256312667	0.090088667
Inca1	chr11:70501862-70513657	1.255886333	1.798470667
Neil2	chr14:63801281-63812362	1.255434333	2.095793333
Pomt1	chr2:32092202-32110525	1.253618667	5.949713333
Lgi2	chr5:52929102-52957519	1.253258733	7.517405567
Adam1b	chr5:121950105-121952989	1.250088	0.107611467
Rarres1	chr3:67282807-67319445	1.249566667	4.5173789
9330182L06Rik	chr5:9266192-9480717	1.248498333	0.304673333
Zc3h12b	chrX:92907016-93123309	1.248326	1.056354533
Zfp618	chr4:62626607-62795064	1.247865333	3.789713333
Ttc16	chr2:32617696-32630903	1.245768	1.62435
Nnat	chr2:157385845-157388255	1.242224667	4.696363333
Lcat	chr8:108463450-108467302	1.240980333	0.658273333
4632434I11Rik	chr7:100006036-100022742	1.240508333	1.473028667
Ccdc125	chr13:101439435-101467195	1.240357333	6.581006667
Terc	chr3:96218359-96218756	1.237690333	1.580907667
F630042J09Rik	chr13:67379529-67384297	1.236888	0.353613667
Olfr99	chr17:37416445-37417363	1.23655	0
Gls2	chr10:127631690-127647060	1.234580667	0.014950367
Krt35	chr11:99953505-99957538	1.234530667	18.01425933
D130040H23Rik	chr8:71794978-71827274	1.233681333	0.034443733
Cd300ld	chr11:114843760-114851200	1.233067	0.201851333
Cercam	chr2:29725013-29738360	1.2323111	1.641903
Tdo2	chr3:81762335-81779650	1.232219333	0.063113667
4933409K07Rik	chr4:41902018-41925853	1.231923333	0.240148667
Mast1	chr8:87435751-87461252	1.230478667	0.316037333
Zfp235	chr7:24919181-24928260	1.230133333	3.179006667

Zscan2	chr7:88006993-88021399	1.229473333	2.22896
6430704M03Rik	chr4:56973007-57003263	1.229214	0.009230633
Cdsn	chr17:35689072-35694125	1.22849	0.488492333
H19	chr7:149761436-149764051	1.226936	3.539454
Lrguk	chr6:33979447-34084034	1.225974333	0.970089333
Lmo2	chr2:103798151-103822035	1.225267667	0.085817
Gamt	chr10:79720895-79723713	1.22506	6.156026667
Zbtb12	chr17:35031503-35033789	1.224500333	3.459428333
Cd160	chr3:96602685-96633274	1.224303333	2.934946333
C1qa	chr4:136451830-136454759	1.223986	0.048825
Ankdd1b	chr13:97186088-97241115	1.223656333	0.202545
Axl	chr7:26541518-26573752	1.22289	0.292125
9830147E19Rik	chr7:49864895-49897974	1.222484333	3.083603333
Igsf5	chr16:96583363-96643728	1.2201694	0
Osgin1	chr8:121961061-121970156	1.220086667	13.93823667
Ysk4	chr1:129711847-129736867	1.218618667	2.321236667
Hs3st5	chr10:36226612-36554200	1.217810333	2.779618
Rundc3b	chr5:8490335-8622952	1.217242	1.437593333
Rpusd3	chr6:113365312-113369334	1.217136667	0.880744667
Cyp2j11	chr4:95961198-96015371	1.216613333	0.049353667
Krt78	chr15:101776434-101784718	1.216540333	5.8306
Ehd2	chr7:16534335-16552884	1.216460333	5.373676667
Gm10336	chr13:12274983-12278755	1.216175333	4.021527333
BC052040	chr2:115407451-115604504	1.215126	7.651726667
lkbke	chr1:133151178-133176140	1.213575333	3.233064333
Gm8050	chr14:6805243-6809942	1.213328333	0.655988333
Trim30a	chr7:111557539-111613707	1.211463333	0.413062
Tnfrsf1b	chr4:144802270-144836773	1.210039633	0.340333333
Nmu	chr5:76762519-76792802	1.209726667	1.469883333
Dynlrb2	chr8:119028914-119039815	1.209707333	32.82403
C030016D13Rik	chr19:27504526-27507121	1.209425667	0.014104
Haus5	chr7:31438726-31450013	1.209362333	3.279552333
Zbtb8a	chr4:129030875-129055272	1.206174	1.289977333
Cdca8	chr4:124595708-124614161	1.205452	5.592103333
Ncf1	chr5:134696129-134705495	1.204964	0.898449333
MacroD1	chr19:7131257-7272552	1.204206667	3.207395
Rprl3	chr8:3803124-3803361	1.203923333	1.930743333
Pou4f1	chr14:104861540-104867216	1.20338	2.287118
Prh1	chr6:132519859-132522419	1.203197	0
Zfp498	chr5:146044211-146052338	1.201506633	2.801289333
Gnat2	chr3:107895985-107904203	1.2012184	1.123526
Rhbg	chr3:88046795-88058606	1.200022333	1.143206667
Cd33	chr7:50782825-50788541	1.198076667	0.710566667
Nhej1	chr1:75013919-75121800	1.197397333	4.769502
Fat2	chr11:55064111-55125759	1.19525	7.83959
Tmsb15b2	chrX:133489528-133492518	1.19487125	1.673574536
Zfp455	chr13:67295441-67310234	1.194171667	0.681395
Krtap3-2	chr11:99417136-99418167	1.193462	2.640544667
Hmmr	chr11:40514889-40546939	1.193306	5.27498
Vsig8	chr1:174486068-174493848	1.190904333	18.80985333
Ppt2	chr17:34753606-34764042	1.190595933	5.53949
Krtap9-3	chr11:99458661-99459420	1.19022	0

Csf2rb2	chr15:78112939-78136033	1.190012	0.5191869
Emilin3	chr2:160732173-160738064	1.189536667	0.35714
Arhgap15	chr2:43604343-44243143	1.1893748	0.165432667
U05342	chr19:12838017-12870613	1.188795055	1.69E-06
Rnf152	chr1:107173493-107253287	1.188253333	2.238916667
H2-Q6	chr17:35561821-35565306	1.187413667	0.814616333
Ttl11	chr2:35606759-35835144	1.186403333	0.81826
Ugt1a2	chr1:90097185-90116577	1.185730667	0.024114934
Mpdz	chr4:80924403-81088709	1.185664333	1.004889667
2210020M01Rik	chr11:115761452-115767583	1.185503	3.002613333
Ppp1r36	chr12:77518585-77540478	1.184496667	3.00516
Pramef12	chr4:143981576-143998367	1.1818	0.651352333
Acpl2	chr9:96723761-96789841	1.181267	1.221767333
Vpreb1	chr16:16868493-16869348	1.181172	0
Fam171b	chr2:83652884-83721515	1.180369233	0.617263367
Slc27a5	chr7:13573695-13583541	1.180268333	0
Met	chr6:17413956-17523980	1.179801	2.065481
B130024G19Rik	chr7:77510268-77556032	1.179633333	0
Spsb4	chr9:96843900-96918774	1.179413333	0.858491
Klhl14	chr18:21708877-21810869	1.179112333	0.379823333
3000002C10Rik	chr9:109732667-109733945	1.176709333	5.994929333
Gm20594	chr6:79768024-79768358	1.174285667	2.339996667
Dlx5	chr6:6827804-6832068	1.174258667	0.806052333
Galnt10	chr11:57458943-57601002	1.17396	3.183826667
Icosl	chr10:77532112-77542270	1.173745333	1.0846113
Tmem213	chr6:38059352-38065806	1.173166667	0.61484
Mdfi	chr17:47952280-47971640	1.171825667	3.075281333
9130227L01Rik	chr1:55988084-56028942	1.171326667	0.225889333
Nckap5	chr1:127810212-128727209	1.170286667	0.045292667
Lyl1	chr8:87225355-87228615	1.168690667	0.321036
1700012L04Rik	chrX:8860889-8861414	1.168359667	0.058490733
Itpr1p12	chr7:125628625-125635489	1.167581	0.700150767
Kif20a	chr18:34784277-34792931	1.167398333	5.100731
Mfsd2b	chr12:4869243-4881165	1.167055467	0.315344333
Frem2	chr3:53317859-53461277	1.166555333	0.825282333
Gpr152	chr19:4139798-4145740	1.166549267	0.045283333
Gm1653	chr3:148937700-148942944	1.166299667	0
4930579G22Rik	chr5:130384409-130387151	1.16625	3.222466667
Mir17hg	chr14:115443611-115445950	1.166039	2.076226667
Napb	chr2:148520392-148558156	1.165578667	0.882531
Zfp707	chr15:75799614-75806295	1.163937333	1.554453333
Esm1	chr13:113999866-114008312	1.16329	0.432518
Ddx59	chr1:138311847-138336797	1.162695667	4.241143333
Dyrk3	chr1:133025017-133034811	1.161817	1.545691167
1700013N18Rik	chr5:108259271-108260783	1.160343333	1.309933333
Lif	chr11:4157570-4172517	1.159713	0.496245
Xkr8	chr4:132280818-132288461	1.159163667	0.925913
Rab17	chr1:92854709-92866197	1.158274333	0.42561
Mtap	chr4:88783273-88826994	1.158100667	2.381999667
Jph4	chr14:55725662-55735772	1.156997	0
Ssbp2	chr13:91600701-91845780	1.156581	7.604603333
Brsk2	chr7:149135655-149190148	1.156239667	3.65232

Lipm	chr19:34175432-34197177	1.155322667	2.645053333
Ccdc51	chr9:108985009-108995877	1.153409767	2.117886667
Vmn2r21	chr6:123442525-123483424	1.152487667	0
Vmn2r22	chr6:123559775-123600653	1.152487667	0
Pi16	chr17:29455826-29465847	1.152194	2.187322333
Tdrd12	chr7:36278628-36322763	1.15203	0
1110017D15Rik	chr4:41452041-41464366	1.151902333	15.2538
Slc35f3	chr8:128822478-128919877	1.15099	0.013073367
Spata5l1	chr2:122456360-122458440	1.150458667	0.459778
B830017H08Rik	chr16:17833211-17835112	1.149644	0.370471333
Slc6a5	chr7:57165668-57214863	1.14964	0
Hs3st4	chr7:131126694-131542503	1.147526	0
Fam78a	chr2:31922404-31939225	1.147405	0.325061333
Tmem119	chr5:114243737-114250361	1.147403667	0
Tnfaip8l3	chr9:53873412-53916218	1.146698433	2.773456667
Shd	chr17:56109904-56116042	1.146584667	1.549827
Prkar1b	chr5:139493257-139606340	1.146033667	2.406210333
Ppef2	chr5:92655999-92682185	1.14523	0.299039333
Anapc11	chr11:120459734-120469512	1.14521	2.783121
Dsg4	chr18:20594675-20630322	1.144860667	1.7377
Fam110b	chr4:5571325-5727091	1.144710333	1.929663333
BC089491	chr7:29069670-29076153	1.144366667	2.23186
E130102H24Rik	chr4:101019128-101028853	1.142482333	0.371258667
Xlr3a	chrX:70331631-70342434	1.142253333	2.805733333
Cyp2b10	chr7:26682682-26711643	1.141145	3.232866667
Cdc42ep2	chr19:5917555-5924816	1.138696667	12.88626433
Muc6	chr7:148819947-148841207	1.137277	2.77649
Cybb	chrX:9012377-9046450	1.137206667	2.219483333
Wee1	chr7:117265572-117286813	1.137189	1.122120333
Fermt1	chr2:132729914-132771772	1.137078667	7.203183333
Tnfsf12	chr11:69499741-69509600	1.136416333	0.974863333
Pla2g4e	chr2:119992147-120071071	1.136201333	2.506649
Slc25a10	chr11:120353150-120362475	1.135609333	2.79131
Gemin4	chr11:76024072-76031074	1.133384	2.057176667
Ttc28	chr5:111308821-111718799	1.132740333	13.85434667
Serinc4	chr2:121276912-121282500	1.132033342	0.210007333
Prickle2	chr6:92320885-92656178	1.131913333	2.652251
H2-Q2	chr17:35479277-35482667	1.131851333	8.214315
4933406F09Rik	chr14:8244986-8255199	1.131258667	0
Fam131b	chr6:42265310-42274639	1.130418	2.876003333
Neil1	chr9:56991062-56994841	1.129897	8.29108
Evi2a	chr11:79340062-79344111	1.129162667	0.403743333
Slc35f1	chr10:52410306-52831428	1.1284811	0.011791067
Wscd1	chr11:71564204-71603148	1.128284	0.199831333
Sstr2	chr11:113485570-113486950	1.127506667	0.375576667
4931440P22Rik	chr3:65331406-65333336	1.125605333	0.223344333
Gbp4	chr5:105544785-105568605	1.1241603	0.017864867
Tas1r2	chr4:139209452-139226194	1.123866	238.9566667
Dlg2	chr7:98239295-99597756	1.1236316	2.494436667
Nr1i3	chr1:173144100-173148976	1.123289	0.107104
Lgi4	chr7:31844953-31855954	1.122875667	0.759078333
Ptger4	chr15:5183403-5193831	1.120987	5.803079667

Frs3	chr17:47832155-47841235	1.119806	0.247849667
Rgma	chr7:80520405-80564785	1.119295667	2.773204
Fam132a	chr4:155336420-155340738	1.11876	0.505064333
Fam18a	chr16:10420651-10447443	1.115963333	1.318281667
Gm4902	chr14:59939800-59960167	1.115746667	0.917749667
Lmtk3	chr7:53039316-53059500	1.112774667	1.602507
Wnt11	chr7:105987354-106003257	1.111000667	0.902266667
Flywch1	chr17:23892389-23908558	1.110665	0.597746
Lepre1	chr4:118905519-118921582	1.109154333	0.286299
9130014G24Rik	chr10:10055500-10192112	1.107356	3.085516667
Pold1	chr7:51788113-51804185	1.107312667	0.137842067
Zfp874a	chr13:67541366-67552560	1.107209	1.668784333
2610002D18Rik	chr4:134066913-134079837	1.106507667	0.264972333
Gjb5	chr4:127032052-127035408	1.1063	2.146086333
Abcc3	chr11:94204608-94254290	1.106022333	1.128094333
Gm9079	chr10:121515167-121516935	1.105581333	1.761606667
Gm6567	chr7:80242637-80246954	1.105086667	0
Cfi	chr3:129539656-129578246	1.104203667	0.0331308
Postn	chr3:54165028-54194963	1.103431	0.178252
Syt2	chr1:136543257-136645994	1.103373	0.229885
Nudt8	chr19:4000579-4002102	1.103259333	2.397593333
Serpnb9d	chr13:33284827-33295849	1.103156	0.444483333
Fam71e1	chr7:51751957-51756504	1.101867	1.535264333
Chaf1a	chr17:56179838-56207449	1.098508667	3.603565667
1700012A16Rik	chr1:155272338-155299704	1.098154667	1.466866333
Slc25a30	chr14:76161805-76186844	1.097982	7.692743333
6330403K07Rik	chr11:70845442-70847119	1.097746667	0.337366667
Fen1	chr19:10273628-10278433	1.096959667	1.496576
Haus3	chr5:34496547-34512073	1.095333333	5.303543333
Dock4	chr12:41172639-41573075	1.095003667	2.162703333
Sh3bp1	chr15:78730215-78742482	1.094797	7.62564
Gm4787	chr12:82477977-82480473	1.09472	1.266943333
4932412H11Rik	chr5:3845172-3866596	1.094346633	1.235416867
Trim66	chr7:116592514-116651648	1.094063667	0.109328667
Cyp26b1	chr6:84521407-84543902	1.0939285	0.541465667
Vim	chr2:13495937-13504453	1.092508667	3.235244667
2810032G03Rik	chr12:5383307-5422938	1.092075	1.118300733
Tmem56	chr3:120904927-120966234	1.092055067	2.211232267
Zscan20	chr4:128260782-128287342	1.090567333	2.502237333
Plin5	chr17:56251023-56256971	1.089666667	0.831381
Nrp1	chr8:130882972-131029375	1.089541	0.359699333
Sycp1	chr3:102622421-102740023	1.088990667	0.188325
Al118078	chr9:55174755-55286151	1.088797533	0.019374467
Phyhipl	chr10:70020433-70062039	1.08727	1.93899
Naif1	chr2:32305976-32310996	1.086848333	0.505437333
4930486I03Rik	chr1:20346534-20382381	1.086556667	2.869396667
Fbxl8	chr8:107788547-107793226	1.085017667	2.437266667
Grm8	chr6:27225120-28084369	1.083643467	0.477736667
Nuak1	chr10:83834063-83903216	1.083297667	0.347717667
Dach1	chr14:98186065-98568762	1.082273667	2.137526667
Gm10818	chr16:32665308-32668283	1.081342333	0
Myo3a	chr2:22149129-22473772	1.081198	0.330805667

1700028E10Rik	chr5:152171249-152216658	1.080750333	0.105804
Grb10	chr11:11830501-11937423	1.077843	0
Tmc3	chr7:90733440-90772219	1.077302	0.739094333
Rhox4f	chrX:35017401-35022193	1.077048	0.0260465
D030028A08Rik	chr11:96805459-96826374	1.077006333	2.18215
Rab38	chr7:95578782-95640082	1.076236333	14.60232
Nutf2	chr8:108384533-108404301	1.076116006	2.568746
Prkcc	chr7:3303657-3331005	1.075876667	9.212393333
Dbpht2	chr12:75398460-75401455	1.075693333	0.830189767
4930404I05Rik	chr16:91011493-91016748	1.075589667	2.385366667
Ehhadh	chr16:21761357-21787907	1.075509	4.486823
Plod1	chr4:147283861-147310885	1.074906667	2.439786767
Sprr2i	chr3:92211912-92213193	1.07326	0
Dio1	chr4:106964069-106979748	1.072869	22.5016
Schip1	chr3:67868723-68430404	1.072863333	0.952983333
Arl13a	chrX:130722039-130742569	1.072286667	0
Exd1	chr2:119345139-119373363	1.071573333	0.285090533
Pira2	chr7:3788411-3796653	1.07139	0
Oaz3	chr3:94237087-94240538	1.071095333	0.145336
Scml4	chr10:42580317-42680588	1.068736667	2.820991333
Zfp112	chr7:24897338-24912971	1.068476667	0.052788233
Pldi	chr10:60390973-60400880	1.067895333	0.73267
Fam115e	chr6:42537211-42547371	1.066052	0.571089333
Gm2506	chr4:42349016-42354418	1.065171475	4.269698333
A330035P11Rik	chr14:122497160-122506196	1.064618067	4.096339167
Ccdc39	chr3:33711282-33743232	1.063601733	12.59953333
Trim60	chr8:67522346-67542587	1.063541	0.431962667
Rgs1	chr1:155626516-155691271	1.062919	0.039226333
Pih1d2	chr9:50425425-50433105	1.060555	5.692107333
Klhdc9	chr1:173288579-173290929	1.060455667	1.283778
Spats2	chr15:98957275-99042897	1.059900333	5.11632
Aim1l	chr4:133624366-133648419	1.0577896	4.393386333
Il1f5	chr2:24132473-24137952	1.056755167	1.020698333
Pkib	chr10:57351786-57460918	1.056283667	8.822043333
Ncrna00086	chrX:53627762-53631647	1.055714667	1.803443333
Elf5	chr2:103252254-103291145	1.055095	0.699164
Nefm	chr14:68737601-68743061	1.054646667	0.055791
1700001L05Rik	chr15:83184276-83197727	1.050755	3.849526
Rarb	chr14:17263353-17407724	1.049948333	2.068716667
S100a7a	chr3:90458223-90462052	1.049913333	2.348436667
Gm7173	chrX:76727906-76762624	1.049476433	1.149254667
Adamts3	chr5:90102865-90312359	1.049100667	0.160137
Hapln3	chr7:86261912-86275904	1.048	0
4732415M23Rik	chr8:125736757-125745945	1.047890333	0
Ccdc94	chr17:56098609-56107374	1.046731333	11.53609667
Liph	chr16:21953890-21995615	1.046617333	1.84065
Tpx2	chr2:152673699-152721057	1.046607733	3.616013333
Hmga1	chr17:27693518-27700617	1.0465	3.647035
Ggt6	chr11:72249027-72251906	1.046483667	4.52273
Fxyd7	chr7:31827533-31836473	1.046183333	0
Racgap1	chr15:99450927-99482087	1.0456947	3.776603333
Ak5	chr3:152125778-152331104	1.045512667	0.401936

A630001G21Rik	chr1:87613657-87633181	1.044905	0.331506333
Rilpl1	chr5:124943088-124981400	1.043853	1.193199667
Rhobtb3	chr13:76006984-76081272	1.042347667	5.33187
Edaradd	chr13:12563475-12612717	1.042282333	3.087847333
Pgm5	chr19:24752750-24936332	1.042238667	0
Cst6	chr19:5344704-5349574	1.041434667	1.886966267
Rsad1	chr11:94401111-94410521	1.041363	0.693965333
Cenpl	chr1:163001022-163016474	1.041288333	3.909118567
Ust	chr10:7924550-8238623	1.041275	3.141228333
Fancc	chr13:63406016-63533053	1.041090333	12.99717667
Odf3l2	chr10:79102270-79108483	1.040992333	0.416005667
C2cd4c	chr10:79069598-79076770	1.040927333	4.212783333
Il1r1	chr1:40281924-40373022	1.040473333	2.698301333
Gpr153	chr4:151648470-151659446	1.040276667	0.073966867
Mbd4	chr6:115790714-115803359	1.0391245	10.02638667
A230072E10Rik	chrX:147747877-147776422	1.038205333	2.485330667
Gm14501	chrX:8927724-8928263	1.03689	0.074497633
Snca	chr6:60681566-60779849	1.036420667	17.6724
BC051142	chr17:34535764-34597679	1.036366	1.382486
P2rx6	chr16:17561977-17572105	1.0357581	0.510605333
Slfm8	chr11:82815659-82834312	1.035422967	0.136197667
Hvcn1	chr5:122659745-122692306	1.03508	1.879
Xkr6	chr14:64225366-64439247	1.034773667	1.34437
Fam151b	chr13:93219574-93253986	1.033567667	4.420050333
Acy3	chr19:3986660-3990005	1.032673133	0.112903167
Plac9	chr14:26707888-26722379	1.03238	0.756857333
Plac9	chr14:26847658-26862145	1.03238	0.756857333
Plac9	chr14:26987272-27001759	1.03238	0.756857333
Kank2	chr9:21571216-21602990	1.032304	0.994819333
Zfp114	chr7:24960063-24967337	1.0318841	0.791932667
Fam131a	chr16:20695129-20703109	1.031306667	4.183096667
A930041C12Rik	chr5:108059268-108062869	1.030935667	0
Scamp5	chr9:57289133-57315831	1.030514333	4.666146667
Pcolce	chr5:138046334-138052632	1.029689667	9.615366667
Vegfc	chr8:55162885-55271808	1.029192667	0
Gm15645	chr7:113010294-113011841	1.028623	0.550551333
Lbp	chr2:158132228-158158588	1.028563	4.235943333
D030040B21Rik	chr1:16647632-16652359	1.02815	0.013048
Gm11190	chr11:77725628-77742790	1.027841	0
Lrrn2	chr1:134776931-134836582	1.026254	0
4930524B15Rik	chr11:31865632-31879651	1.02489	1.530601333
Dapk1	chr13:60703307-60864547	1.024532	2.688205333
Lrp8	chr4:107474863-107549445	1.022566667	3.104166667
Myopop	chr7:19576593-19587115	1.022555	5.235339667
6720489N17Rik	chr13:62704374-62725542	1.022417333	0.514681
Sh3bp4	chr1:90967036-91050368	1.021723667	5.359266667
Smyd4	chr11:75161934-75219207	1.020274667	0.634666433
2010001M06Rik	chr5:135487991-135489027	1.019836667	0
Kif24	chr4:41337780-41411881	1.019813667	4.375233333
4921507L20Rik	chr2:93820190-93823732	1.018561667	0.050211333
Efna4	chr3:89137314-89141950	1.017803	6.786543333
Nt5dc2	chr14:31948038-31952310	1.016619	3.399603333

9430020K01Rik	chr18:4634926-4682867	1.016513667	4.045607
Gm4925	chr10:88192285-88193846	1.016104333	1.494073333
Osr2	chr15:35225866-35233060	1.014695333	2.920563333
B3galt5	chr16:96457407-96541465	1.013466667	1.016253333
Sag	chr1:89700254-89741732	1.013243333	0.100487333
2310068J16Rik	chr15:99802597-99803718	1.012254	0.095729667
Tonsl	chr15:76456666-76470359	1.010951333	3.581174333
Glis2	chr16:4594712-4615957	1.010825	7.247063333
Tmem221	chr8:74078201-74082770	1.010226667	2.576003
Galns	chr8:125102136-125135387	1.008654	2.070156667
Cav2	chr6:17231340-17239011	1.006961667	3.04928
Morc4	chrX:136356173-136406193	1.006676333	3.610992
Prune2	chr19:17030607-17298422	1.006549333	0.766137333
Ppm1n	chr7:19862155-19865398	1.006253333	2.73074
Ass1	chr2:31325789-31376190	1.005821667	2.281793
Rab34	chr11:78001928-78005695	1.004882667	6.358926667
Krt31	chr11:99907959-99911865	1.003876333	0.979122267
Ccdc33	chr9:57876488-57966630	1.003270333	1.240297333
Foxm1	chr6:128313011-128325904	1.003242167	0.575792
Thrsp	chr7:104561466-104566020	1.001953333	0.284452333
A230108P19Rik	chr2:6114296-6242657	1.000570667	0.039215367
Gpr62	chr9:106366290-106368271	1.000400167	0.25372
Fam89a	chr8:127264156-127275709	0.998988667	0
Tmem45a	chr16:56805273-56886276	0.998124	3.210377667
Tmem154	chr3:84470113-84508497	0.998078667	20.78009333
Arl4d	chr11:101526854-101529146	0.997818667	0.591467667
B230208H11Rik	chr10:12636443-12642925	0.997273333	0.519293333
Asgr1	chr11:69867870-69871396	0.996776667	0.292556667
1700016D06Rik	chr8:11654923-11678750	0.99511	0
C1qtnf1	chr11:118289770-118313096	0.994302667	1.22979
Bcl7c	chr7:134848491-134852280	0.994133467	0.798278
2410131K14Rik	chr5:118695235-118713123	0.993274667	4.374846667
Oit1	chr14:9181461-9211277	0.992936	16.09310667
Fank1	chr7:140968573-141073215	0.992853333	1.842557667
Tub	chr7:116154393-116177973	0.992656	1.456347333
Plch1	chr3:63500155-63654913	0.991949333	2.369328
Cmtm5	chr14:55555306-55558114	0.990893333	0.041311667
Metrn1	chr11:121563740-121578703	0.990725	0.765493333
Gtse1	chr15:85690136-85707003	0.990619	0.487520333
2010001E11Rik	chr10:39640187-39646729	0.989114967	0
Ccdc162	chr10:41258654-41307559	0.988961333	4.695936667
Ush1c	chr7:53450720-53493860	0.988843333	0
Fmn1	chr11:103032451-103060214	0.988029667	3.22249
4933413J09Rik	chr14:27177032-27219942	0.987002667	2.83101
Lce1f	chr3:92522617-92524272	0.98691	0
Fitm2	chr2:163294438-163298365	0.986407	0.813904
Fv1	chr4:147243087-147244467	0.986308	5.295813333
A030009H04Rik	chr11:69154270-69156149	0.985743333	1.794322667
Prg4	chr1:152296541-152313295	0.984755667	4.167825333
Gm8050	chr14:5267559-5272258	0.984561667	0.798817333
Dph2	chr4:117561247-117564608	0.984527333	5.876771667
Gm5547	chr3:105618484-105620277	0.983756667	0

1700018L02Rik	chr19:29121972-29123219	0.983743333	1.137482
Atp2b2	chr6:113695661-113992074	0.983048333	0.123284033
Acad12	chr5:122048289-122068947	0.982694333	1.67559
Ly6c2	chr15:74938590-74942379	0.982501	0.375116333
Hus1b	chr13:31038444-31039630	0.982135	0.178364333
Olfra457	chr6:42421233-42422175	0.9803867	1.092614
Camk1	chr6:113284117-113293916	0.978170333	0.238291333
D7Erttd715e	chr7:67114462-67119317	0.978131667	0.735233333
Sectm1a	chr11:120928716-120942453	0.977565333	0
Pdia5	chr16:35397397-35490959	0.977456667	2.534798367
Trpv2	chr11:62387987-62413807	0.977304333	1.077584333
Zfp651	chr9:121669150-121680860	0.976987	5.143076667
Msh5	chr17:35165549-35183668	0.97632	0.47803
	31-Aug chr7:134357955-134361959	0.975639	0.388099667
Shq1	chr6:100523075-100621151	0.975554	8.924183333
Batf3	chr1:192922292-192932822	0.97528	0.536336667
Hells	chr19:39005479-39042767	0.975246833	0.557591
Olfra986	chr9:39994663-39995679	0.975136667	0
Lrrc3b	chr14:16190030-16271501	0.974221	0
Hrc	chr7:52590638-52594342	0.972652	1.060630333
Cfp	chrX:20502660-20508650	0.972399567	3.99879
Garnl3	chr2:32841885-32942724	0.971837667	0.642729333
Msr1	chr8:40667053-40728032	0.970576667	0
Cd27	chr6:125182639-125187045	0.969218	1.41912
Tekt2	chr4:125999364-126002443	0.969108667	14.12892667
Cyb561d2	chr9:107441341-107444196	0.968538667	3.95757
Rtp3	chr9:110887446-110892217	0.967903333	0
Pik3ap1	chr19:41348707-41459560	0.967891	0.534560333
Kndc1	chr7:147080594-147127439	0.967861	6.44367
Crb2	chr2:37631768-37654623	0.965312333	0.535523667
Srpk3	chrX:71019760-71024263	0.961784	1.565358
Gal3st4	chr5:138706152-138713982	0.961063933	2.102976667
Cyp46a1	chr12:109572590-109600444	0.960946667	1.818736667
Ugt1a6b	chr1:89999831-90115573	0.960723	6.46699
Abcc6	chr7:53231749-53285656	0.959846067	0
4930455C13Rik	chr10:21038893-21061861	0.959256667	2.531151
Kdelc2	chr9:53192127-53209972	0.959152333	4.405242333
Gpr173	chrX:148779188-148802654	0.9580353	1.598414
Amy1	chr3:113258869-113280668	0.957789333	3.7046
Klhl25	chr7:82993223-83019016	0.956321333	2.596618
Rhox4c	chrX:34894843-34899631	0.956122333	0.040536333
Anln	chr9:22135657-22193650	0.955321667	9.63678
Dnm1	chr2:32163990-32208824	0.955008	1.255811
Lsp1	chr7:149646774-149680504	0.954525667	0.286137667
Rxfp3	chr15:10963471-10967723	0.954090867	0.219487667
Gm3086	chr12:71064395-71070731	0.953016	4.593102667
Kcnj16	chr11:110829346-110889281	0.952783333	2.304273333
Zfp383	chr7:30693535-30701832	0.952610333	1.318720333
Rdh5	chr10:128350646-128356353	0.95157	0.430230667
Sp110	chr1:87473474-87500466	0.951070967	0
Wdr72	chr9:73958140-74131010	0.950752067	0.851973
E330020D12Rik	chr1:155251315-155261363	0.9503236	3.0534919

0610038L08Rik	chr17:29715760-29733250	0.950063667	1.819758333
Dqx1	chr6:83007837-83017213	0.948447	1.484273
Gm572	chr4:148017425-148045681	0.947709333	0.425011667
Rhox4b	chrX:34847000-34851785	0.947387	0
Gpr4	chr7:19797886-19809525	0.947233333	1.747614333
Ifnb1	chr4:88167928-88168698	0.94706	0
3110039I08Rik	chr9:41184643-41240162	0.945136667	0.06497
Slc5a11	chr7:130358379-130416765	0.943219433	0.031570733
Ly86	chr13:37437213-37510905	0.943206667	0
Ankrd44	chr1:54702183-54983231	0.942626333	3.260806667
Smc2	chr4:52452120-52501131	0.942450667	5.392393333
Ccdc65	chr15:98538657-98553764	0.941999667	1.187795533
Kbtbd8	chr6:95067899-95079781	0.941981667	0.557558667
Ly6g5c	chr17:35245244-35248898	0.941258333	4.961666667
Foxo6	chr4:119939682-119959866	0.941216333	4.476551
Nmnat3	chr9:98197001-98311847	0.940514667	1.100221667
Nova1	chr12:47795503-47919762	0.939290333	2.138622
Cd72	chr4:43460595-43467498	0.939063	5.523843333
Asb14	chr14:27707789-27728443	0.938935667	3.051921333
Ankk1	chr9:49223326-49235126	0.938753333	0
Mro	chr18:74019040-74038788	0.936938333	0
Serpinb6b	chr13:33057381-33070906	0.936607	18.51993333
Psd	chr19:46386576-46401646	0.936474667	4.173884333
Adck3	chr1:182095368-182126151	0.936339	1.839287667
Ypel4	chr2:84574360-84578034	0.935746667	0.714892667
Armc6	chr8:72744091-72758321	0.935578667	2.350906567
Far2	chr6:147995937-148131282	0.93508	3.71087
Rab37	chr11:114952744-115023554	0.934236333	18.96423333
2610018G03Rik	chrX:48194612-48245027	0.933006667	6.156753333
Tnfrsf23	chr7:150851711-150871777	0.931513667	0.948467633
Megf6	chr4:153544821-153649830	0.930517833	0.247638867
Klrb1a	chr6:128559244-128572952	0.93035	0
Srrm4	chr5:116889281-117041826	0.929758	1.824393333
Ccdc24	chr4:117541866-117545075	0.929610667	0.604020667
Nacad	chr11:6497825-6506057	0.929135333	1.701783
Crabp1	chr9:54612614-54620916	0.929086667	4.053453333
Vash1	chr12:88019649-88036631	0.927655667	0.996427
Zbtb3	chr19:8876985-8879344	0.926673333	0.747201333
Ccdc42b	chr5:121078343-121084244	0.926148667	0.853151667
D730048J04Rik	chr17:43671122-43680588	0.925346333	0
Smcr7	chr11:60541899-60546453	0.924860333	1.6170597
Fam83e	chr7:52976589-52984862	0.924697667	2.150976
Neu3	chr7:106959948-106976927	0.922214333	0.333991667
Dtwd2	chr18:49855798-49915255	0.921540333	1.024225867
Mfsd2a	chr4:122624093-122638431	0.921010033	28.87966667
Kif22	chr7:134171244-134185934	0.921003667	2.117701
Snph	chr2:151416285-151458269	0.920838667	0.551230333
Tas2r122	chr6:132661016-132661946	0.920187667	0
Ifi47	chr11:48900556-48910473	0.919893333	0
Chst10	chr1:38920717-38955005	0.919294333	2.14622
Gk5	chr9:96019847-96083372	0.918735333	4.128906
Csmid1	chr8:15892544-17535385	0.917568667	0.251384333

6330407A03Rik	chr4:3642110-3643953	0.917509	0.679806667
Msrb3	chr10:120218156-120336027	0.917315667	0.734597
Bmp3	chr5:99283457-99309979	0.915510333	0.1067474
Gjc1	chr11:102660791-102681000	0.914973333	0
Fut4	chr9:14552902-14556566	0.913928333	0.1576138
Gpbar1	chr1:74325173-74326163	0.913648333	0
Gm7616	chr9:59799100-59806851	0.913443	0.360652333
7530416G11Rik	chr15:85323165-85333657	0.913117	0.029535267
Gpr18	chr14:122310655-122314996	0.912886667	0.2496273
8430406I07Rik	chr2:144096770-144106965	0.912507333	1.580169
Slc24a2	chr4:86629029-86876444	0.911732	0
Gspt2	chrX:91881407-91883900	0.911650667	6.537467
4930549G23Rik	chr18:67935686-67959597	0.91162	0.099250333
Olfr456	chr6:42436161-42437213	0.910653667	6.70368
1700009P17Rik	chr1:173051791-173057098	0.910633333	1.943086667
Fgf7	chr2:125860393-125916921	0.909352667	0.44951
Gpc6	chr14:117324536-118378751	0.909308333	0.220019333
Dnase1	chr16:4037144-4040024	0.908682	1.389044333
Tinagl1	chr4:129842843-129852366	0.907505333	1.029255
Ccdc68	chr18:70085212-70129138	0.906488667	3.801443333
Atp8b5	chr4:43280030-43386703	0.905813333	0.278912667
Espl1	chr15:102126723-102154787	0.904927667	0.362019667
Rin1	chr19:5050807-5057071	0.903179667	0.250385333
Itgb1bp3	chr10:80660914-80664782	0.903003933	8.674802833
Gm826	chr2:160137136-160153230	0.902651333	0
Trpm6	chr19:18824472-18967001	0.901806	0.1065931
Ttr	chr18:20823750-20832827	0.899429667	0.321789333
Ppfia3	chr7:52594495-52622389	0.899183333	4.657133333
4930533B01Rik	chr2:113531209-113548707	0.898431333	2.141221667
Serpina6c	chr13:33971684-33997577	0.898338667	1.138214667
Miox	chr15:89164903-89167438	0.898206667	0
Cacna1b	chr2:24461894-24618672	0.8966866	2.078995
Gm5662	chr12:89509079-89512941	0.895498333	0.038742667
Gm8909	chr17:36301388-36305482	0.895406	0.790215
Vmn2r83	chr10:78931702-78954899	0.894134	0
Haus8	chr8:73775022-73796489	0.893840333	1.069109867
Slc18a2	chr19:59335367-59370502	0.892512	1.922756667
Klk7	chr7:51066813-51071729	0.891947333	0
Plscr2	chr9:92170439-92192590	0.891102667	0
Tsga14	chr6:30603456-30643682	0.889320833	0.519319333
Atp6v0a4	chr6:37998482-38074586	0.889233333	6.147939333
Nptx2	chr5:145306755-145318347	0.888216333	0.215926
Chek2	chr5:111269035-111303152	0.887909967	0.165437
Muc13	chr16:33794122-33820013	0.887628333	0.885068
Pla2g10	chr16:13715154-13730678	0.88559	0.207559333
Grip1	chr10:118891369-119512649	0.885056333	3.390683333
Vwf	chr6:125502980-125636695	0.884382667	2.534383333
Spin4	chrX:92217845-92222021	0.883928667	1.338082
Gpr31c	chr17:13244186-13245146	0.883366667	0
6330403A02Rik	chr1:182362503-182413635	0.882017633	6.892076667
Ntrk2	chr13:58907956-59231328	0.881988333	7.039783333
D330012F22Rik	chr7:87377778-87386306	0.881446667	2.797815767

P2rx5	chr11:72974031-72986189	0.881188667	0.163648833
1500015L24Rik	chr19:20479777-20497275	0.880863333	3.759133333
Adcy3	chr12:4133396-4213524	0.879783333	1.763696694
LOC629393	chr11:85816159-85837852	0.879446667	0
Hmgb1-rs17	chr8:34594782-34596229	0.879028667	0.773444
Pdgfc	chr3:80840337-81017953	0.877224667	6.66643
Frmpd1	chr4:45197777-45298808	0.876791333	2.5691
Slc23a1	chr18:35774257-35786881	0.876747667	1.040475667
Hsd17b1	chr11:100939724-100941819	0.875446667	0.53281
Slc6a20b	chr9:123502937-123541683	0.874076	0.463367
Pdyn	chr2:129513736-129515604	0.87351	9.736273333
G6pd2	chr5:62200081-62201716	0.87231	1.372151333
Alas2	chrX:146981959-147005165	0.871247667	0.534792333
Zfp593	chr4:133799220-133801506	0.870585267	0.675959333
1700097N02Rik	chr17:30759385-30763850	0.869960667	0.176962667
Cdc25a	chr9:109778082-109796394	0.868883	1.705478333
Slco4a1	chr2:180195682-180209557	0.868266667	2.146766667
Sgol1	chr17:53814111-53828640	0.867935	0.650495667
Smyd5	chr6:85381969-85396423	0.867832333	3.1814018
Tcirg1	chr19:3896049-3907133	0.866811	6.054616667
Rell2	chr18:38115212-38118833	0.866172333	0.86911
Prodh	chr16:18071818-18089283	0.86555	0.576134333
Gpr146	chr5:139856620-139872368	0.865153667	0
Gbp8	chr5:105443171-105482580	0.865141733	1.035397767
F8	chrX:72418055-72625380	0.865090333	2.027928
Serpina3h	chr12:105486105-105492615	0.864662	0.6308972
Krt33b	chr11:99884947-99891182	0.864606033	0.7568318
5730590G19Rik	chr7:86805081-86843031	0.864389	0.902277
Adamts13	chr2:26828935-26865145	0.8623451	0.007697033
Gm14446	chr19:34667377-34676458	0.862045033	0.624755
Colec12	chr18:9707645-9877993	0.860994667	1.815137333
Pcdhb2	chr18:37454493-37457268	0.860583667	2.590646667
Ncaph	chr2:126929545-126959690	0.859496333	1.635197333
Kcnab3	chr11:69139759-69146543	0.859210333	0.1132574
Rassf2	chr2:131818585-131855724	0.85869	0
Gm8883	chr1:71934685-71937778	0.857126667	0
Rhox4d	chrX:34929041-34933682	0.857019667	0
Tceal6	chrX:131743224-131745226	0.856792	0.137396533
Ogdhl	chr14:33135204-33161006	0.856238367	0.725980333
Casp14	chr10:78174739-78181038	0.856028667	1.933189333
Beta-s	chr7:110975036-110976442	0.85602	0
9930111J21Rik1	chr11:48759651-48792883	0.855873333	0
Gm15413	chr7:103939942-103950059	0.855759333	5.149526667
Ifi204	chr1:175677424-175697050	0.854973	0.218023
Emilin2	chr17:71601515-71660305	0.8537325	0.975854667
5930412G12Rik	chr5:129085004-129106562	0.853606667	0.790043333
Gyk	chrX:82947275-83022158	0.853126	1.92909
Susd1	chr4:59327554-59451505	0.8531012	4.565166667
Gatsl3	chr11:4118253-4122412	0.852858667	0.5741405
Gm13212	chr4:145207048-145214297	0.852191	0.356650667
Col15a1	chr4:47220883-47326037	0.85197	0.41627
5830428M24Rik	chr12:70565773-70576537	0.851388333	0.641478333

Scnn1g	chr7:128878020-128911991	0.849081333	1.265846667
B630019K06Rik	chrX:8469478-8472090	0.848387333	2.593388367
Zfp964	chr8:72178454-72188352	0.845786667	0.732045
Rarres2	chr6:48519696-48522669	0.845065333	7.39E-119
4930538K18Rik	chr4:118877659-118890822	0.844988	0.065113333
Rhox4e	chrX:34971918-34976789	0.843217333	0
Dcst1	chr3:89154156-89169161	0.842746333	0.0773727
Slc27a3	chr3:90189154-90193849	0.842716333	0.7987688
Dph1	chr11:74991144-75003985	0.842645	0.021225842
1700029G01Rik	chr4:125827845-125840585	0.842598667	0.604604
Gm13718	chr2:84499235-84508938	0.84036	0.027129667
Slco4c1	chr1:98715360-98768748	0.8401295	4.502391667
Cldn20	chr17:3532553-3533213	0.839615667	2.992473333
Inpp5d	chr1:89516886-89617083	0.839220333	0.009364467
Aqp5	chr15:99421458-99425260	0.839203333	4.2306
Il1b	chr2:129190315-129196856	0.838663333	0.85492
Oaf	chr9:43029360-43047899	0.836758333	0
Rab11fip5	chr6:85284955-85324628	0.835453333	2.148500667
Ftsjd1	chr8:112741859-112748389	0.8343	1.3177311
Gm8050	chr14:6452626-6457325	0.8333679	1.053527
4930478L05Rik	chr16:78560560-78565114	0.833166667	1.138455667
Crxos1	chr7:16467965-16489379	0.832713333	0
Tmem47	chrX:78315982-78343214	0.831534667	1.144003
2010005H15Rik	chr16:36221647-36257513	0.831236667	1.058736667
5730416F02Rik	chrX:106196823-106197635	0.831086667	0.304070667
Pla2g4a	chr1:151676751-151808414	0.829698	2.567611333
Mfsd6l	chr11:68369687-68371747	0.829383	0.618730667
Fbxo27	chr7:29477867-29484356	0.82916	0
Ovgp1	chr3:105776719-105790341	0.828912667	1.550440667
Ptgs2	chr1:151947253-151955142	0.828900333	5.504160867
Rasgrp1	chr2:117105728-117168613	0.828230333	1.872814667
Zmynd15	chr11:70273123-70279701	0.827929367	0.322778067
Wdr95	chr5:150331253-150414469	0.8274935	0.407354
Egfl6	chrX:162960938-163023648	0.826553667	7.236173333
Nat14	chr7:4873852-4876608	0.8263953	0.278160333
4930467D21Rik	chr5:97821435-98017145	0.825287967	0.024156133
2010310C07Rik	chr6:42320669-42330557	0.824675667	1.901869333
Pla2g3	chr11:3388229-3394169	0.824652567	2.782376667
AV051173	chr4:116357569-116358627	0.82453	0
Lrrc19	chr4:94303350-94316835	0.824388333	0.243215033
Serpind1	chr16:17331463-17343665	0.823846333	0.664329667
Bsn	chr9:107998352-108092714	0.823768	1.825666
Dnahc7b	chr1:46123582-46430395	0.823755	2.210616667
Phldb1	chr9:44494390-44543281	0.822908667	1.89173
Kcnj9	chr1:174251163-174259394	0.822148667	0.889540333
Cyb5rl	chr4:106742772-106757410	0.821273	0.34602
Lrrc46	chr11:96895915-96902683	0.821062333	0.619563333
2010015L04Rik	chr4:154783298-154817219	0.820867	1.094716333
Acot10	chr15:20594968-20596505	0.820716667	2.598741333
Lypd2	chr15:74562681-74564743	0.820671	26.8149
Slc41a3	chr6:90554873-90596406	0.819474667	4.14188
Rcor2	chr19:7344253-7349715	0.817473333	10.46105133

Otop2	chr11:115168476-115193617	0.817392333	3.954933333
Laptm5	chr4:130469248-130492063	0.817004	1.438210867
Accn2	chr15:99501148-99531559	0.816986667	1.82436
Mis18bp1	chr12:66233720-66273567	0.81676	2.694845
Cilp	chr9:65112986-65128412	0.816605	0
C3ar1	chr6:122797157-122806175	0.815383333	0.097502
Ubl4b	chr3:107356615-107357991	0.814956667	8.102643333
H2-Q7	chr17:35576099-35580718	0.8146644	0.904477
Epb4.2	chr2:120843952-120862491	0.8146293	0.094694667
Gbp10	chr5:105644717-105668552	0.81375	1.382943667
Zfp189	chr4:49534088-49544417	0.813174333	1.393637
Spns2	chr11:72265139-72303406	0.812883667	6.099446667
Gngt1	chr6:3944011-3947436	0.812556667	0.79162
Lims2	chr18:32091160-32118273	0.811975667	0
5730480H06Rik	chr5:48786811-48805533	0.811366333	6.601693333
Gprc5a	chr6:135015679-135034726	0.811346267	2.26574
4933412E12Rik	chr10:116387617-116400335	0.810917333	6.108036667
Gpr113	chr5:30519970-30532262	0.810813	49.4788
Ttc21a	chr9:119846723-119876911	0.810368333	0.650028333
Tlx1	chr19:45225204-45231433	0.810191667	8.59176
Gm12298	chr11:66719133-66760588	0.809577333	0.055166333
Ccl3	chr11:83461344-83462880	0.808713333	0
Cdca2	chr14:68294410-68333898	0.808453	0.134416
Rasa3	chr8:13567217-13677587	0.808201333	2.722105
Ccdc79	chr8:106970618-107033787	0.808096533	1.00922
Rap1gap2	chr11:74196984-74403660	0.807179333	7.20868
Pard6a	chr8:108225053-108227394	0.80354	1.596140333
Abcb6	chr1:75168214-75176857	0.80286	3.79135
Tacr3	chr3:134491970-134597545	0.802426667	0.430673767
Bend5	chr4:111087610-111132903	0.801714667	4.206507
Cbs	chr17:31749588-31774086	0.801698667	2.28926
Fcgr1	chr3:96086831-96097892	0.800035	0.450641667
Gm5434	chr12:36816965-36818416	0.799727	1.441498
Gm13315	chr2:14642268-14644249	0.798503	1.547955
BC100451	chr11:118193673-118203848	0.798355667	0.342656667
Nudt19	chr7:36332203-36340947	0.798344667	5.120196667
Usp27x	chrX:6949716-6952956	0.797980333	1.6896307
Zcchc18	chrX:133527693-133531462	0.797307667	4.86757
Asb2	chr12:104559351-104594211	0.796778	0
Ccdc19	chr1:174451260-174476001	0.79617	2.642902
Mkl	chr8:113835699-113861803	0.796153333	0
Gsdmcl-ps	chr15:63746015-63757008	0.796033333	0.6577712
9530077C05Rik	chr9:22216020-22249123	0.795903333	0
Klhl35	chr7:106614513-106622530	0.795840333	0.685497
Cyp27b1	chr10:126485301-126490062	0.795840333	0
Tmem144	chr3:79617074-79646584	0.795194667	2.266473333
Cetn4	chr3:37207548-37211368	0.794921333	3.273528667
AF366264	chr8:13835230-13838089	0.794116333	0
Rem2	chr14:55094936-55099271	0.793797333	1.44243
Gm10548	chr18:34367428-34381426	0.793736333	0.268881333
Fanci	chr7:86537223-86595150	0.793628367	0.828055
Mmd	chr11:90110789-90139887	0.792651667	0.2713254

Wipf1	chr2:73267673-73367467	0.792435	0.117088267
Gm1123	chr9:98907383-98936109	0.792113333	0
Sox5	chr6:143776944-144158088	0.791834067	1.0584691
Pkd2l1	chr19:44222126-44266932	0.791698667	1.077755333
Fscn3	chr6:28377900-28388622	0.79137	0
Fmn13	chr15:99147653-99200897	0.791367767	0.831327167
Cenpf	chr1:191464492-191511965	0.789540333	8.72962
4930562F07Rik	chr1:162004865-162008116	0.788800078	8.38E-08
Ell3	chr2:121264762-121268337	0.787953	8.471781
BC125332	chr2:112088104-112099448	0.787400667	0.041454367
Gm106	chr1:15843942-15882803	0.784665067	0.539500333
Hs3st6	chr17:24889947-24895629	0.784519667	10.41145
Tmem100	chr11:89891661-89897819	0.7845	0.393087667
Ppapdc1a	chr7:136400607-136534821	0.783386667	0
Spink8	chr9:109719140-109729141	0.782963333	0
Urm1	chr2:29682908-29700516	0.782805567	2.762316667
Olfr1410	chr1:94504415-94505384	0.782683333	0
Zfp334	chr2:165202935-165213759	0.781119867	1.800595333
Mcart6	chrX:133515654-133572841	0.780835467	1.567252667
Mxra7	chr11:116664713-116689360	0.780636667	0.722966667
Olfm2	chr9:20472429-20532658	0.780388333	1.87115
Zfp365	chr10:67348852-67375410	0.780085333	1.732099933
Fhl4	chr10:84559763-84565240	0.779017	2.045407333
C1qtnf3	chr15:10882086-10909917	0.7773328	0
Slc19a1	chr10:76495483-76513177	0.7769226	6.693823333
Sord	chr2:122060574-122091073	0.776528667	1.875166667
Cspg5	chr9:110146286-110165080	0.776055	0.483681
Zfp354b	chr11:50735287-50745137	0.774887667	2.004015
Morn3	chr5:123487135-123496829	0.773924667	0.31343
Cenpn	chr8:119445639-119465403	0.77384	3.21872
Fez1	chr9:36651243-36686225	0.771666667	2.419516333
Creb3l1	chr2:91822484-91864327	0.771142	5.245783333
Dcdc2c	chr12:29122659-29233202	0.771102333	0.42516
Rdh9	chr10:127213460-127229753	0.770326667	0.608403333
Cys1	chr12:25350702-25366660	0.770241	0.607395
Gm3716	chr5:64985101-65001938	0.769630333	1.281456667
Adcy4	chr14:56387928-56402856	0.769295333	0.010561033
Armcx2	chrX:131338680-131343760	0.768856667	1.558700333
B930018H19	chr8:35652473-35703370	0.76822	0.052808667
Fam132b	chr1:93263006-93270794	0.767034433	1.283556667
Eif5a2	chr3:28680232-28697768	0.766854	0.643929
Fli1	chr9:32229792-32348953	0.76631	0
Zfp85-rs1	chr13:67848736-67856071	0.765800667	2.760626333
Aldh1a7	chr19:20767442-20802046	0.765483233	3.2573
Gm14327	chr2:177631867-177662555	0.765353	0.266866
4921530D09Rik	chr2:25464148-25473198	0.764158967	0.318406
Aifm2	chr10:61178010-61202008	0.763985009	3.67593
Syna	chr5:135033123-135036041	0.763784333	0.622196667
Syn1	chrX:20437636-20498044	0.763542	1.4646
Adcy1	chr11:6963491-7078508	0.763405	1.513120667
Gpr37l1	chr1:137056826-137064258	0.763065167	0.151205333
Chit1	chr1:136007818-136048013	0.762536867	25.39466333

Osbp10	chr9:114976396-115141341	0.762272	0.596774667
Cerkl	chr2:79172647-79269145	0.762053333	0.108783667
Hpd1	chr4:116492511-116494113	0.76174	0
Myog	chr1:136186580-136189125	0.761374333	0.0221147
C920006O11Rik	chr9:78023720-78026689	0.761352333	1.708246
Acacb	chr5:114615526-114700767	0.760949333	1.894170333
Gm2016	chr12:89112519-89116307	0.758940667	0.009024533
Ighmbp2	chr19:3259075-3283010	0.758548667	5.335822667
Gm15706	chr6:145199071-145200376	0.758407333	1.294216667
Gm1673	chr5:34326122-34327655	0.758113333	1.205016667
Wdr69	chr1:83156336-83207147	0.757854667	0
Amica1	chr9:44887265-44916614	0.75766	0.182906233
Angptl2	chr2:33071480-33103234	0.757026333	3.37057
Gm10658	chr9:56904703-56919773	0.756876667	2.41545
Baiap3	chr17:25379603-25393309	0.756544333	6.246436667
Ahsg	chr16:22892114-22899511	0.756027	0.2824916
Fgf20	chr8:41364519-41372307	0.755818667	0
Arhgap22	chr14:34030008-34183122	0.755575333	0.280811133
Fam163b	chr2:26965898-26997997	0.75538	1.31708
Gm14872	chr17:47824558-47828041	0.755341467	1.172308433
Reep1	chr6:71657674-71760699	0.755066333	6.863809667
Wdr86	chr5:24218086-24236498	0.75371	0.231659333
Zkscan4	chr13:21570717-21577374	0.753581667	1.699873667
Tomt	chr7:109048321-109054873	0.753527	1.460672
Ooep	chr9:78224709-78226395	0.752566667	0
Zwilch	chr9:63984950-64020738	0.751717333	0.3809493
1700054N08Rik	chr8:126364743-126384109	0.7512389	1.925185333
Syde2	chr3:145650833-145684684	0.751186	1.36133
Unc5a	chr13:55050792-55107379	0.750727667	0.653467333
Dclk1	chr3:55046447-55342990	0.750426	0.68024
Foxred2	chr15:77770951-77787152	0.750417	5.515426667
Dpyd	chr3:118265095-119135836	0.750345667	0.582709667
Kif26a	chr12:113384418-113419958	0.7499906	0.541431833
Gm996	chr2:25430935-25435619	0.748830333	0.964340333
Crybb3	chr5:113504858-113510604	0.748047667	4.689966667
Wnt3	chr11:103635488-103679335	0.747056133	0.601766
Slc26a1	chr5:109099565-109104668	0.7470371	0.0141268
Meis2	chr2:115686999-115890794	0.745909	1.871441667
5730420D15Rik	chr10:94880008-94891274	0.745864333	0
Fchsd1	chr18:38117087-38129385	0.744701867	0.890661667
Anks6	chr4:47028560-47070178	0.743254667	1.723698
9930111J21Rik2	chr11:48851161-48864744	0.743163333	0
Cxcr4	chr1:130484775-130488876	0.743129	0.140070667
Gm12522	chr3:108182194-108186659	0.743070333	0.145927467
Dennd2c	chr3:102931478-102973656	0.743057	4.21461
Rbpjl	chr2:164228693-164240948	0.741923333	1.932166667
Slc23a3	chr1:75122115-75130464	0.741425967	0.6170898
4931431C16Rik	chr5:35923875-35931412	0.740746333	0.354006667
9530048J24Rik	chr11:85580334-85589182	0.739447667	0.727150667
Rimbp3	chr16:17208227-17214075	0.738918633	1.811128
A630071L07Rik	chr2:33661335-33669111	0.738613533	2.774916667
Rhox4g	chrX:35061007-35065834	0.737287	0.012192

1700003E16Rik	chr6:83106397-83112969	0.736553667	1.465058
Rad54l	chr4:115769559-115796295	0.736145667	0.381255333
Ncam2	chr16:81200941-81624532	0.735667333	0.634343333
Gm16675	chr8:47816323-47824869	0.735523333	0.835763333
Itga11	chr9:62525661-62631786	0.734476	0.064041
Fbxo41	chr6:85419571-85452880	0.734368467	0.188364333
Sirpa	chr2:129418574-129457964	0.733893	3.304655
AY512931	chr8:46146055-46150772	0.733207067	2.590713
Aurka	chr2:172181695-172196006	0.732904333	2.293029667
Gm20556	chr15:84545058-84550696	0.732761333	0.041572
Esam	chr9:37335673-37345904	0.732594667	0.403424667
Tarsl2	chr7:72789783-72836979	0.732565333	2.51343
Arsk	chr13:76197869-76236108	0.73187	5.116846667
Serpinb1b	chr13:33175971-33186249	0.7318335	9.527763333
Gfod2	chr8:108240012-108282507	0.7317673	1.033623
S1pr2	chr9:20770395-20781237	0.730275	3.87008
E030018B13Rik	chr7:71061742-71065425	0.729906667	0.585166667
Metrn	chr17:25931515-25933990	0.729720333	0.969031
Cd200	chr16:45382247-45409166	0.729590133	4.491066667
Hcn3	chr3:88950696-88964079	0.728723167	0.349636667
Lrrc2	chr9:110854048-110886568	0.728333	0.827059667
Slc26a6	chr9:108756373-108815380	0.726067333	0.550627
Muc20	chr16:32777504-32797521	0.725701	2.11537
Fstl1	chr16:37777140-37836602	0.725293	0.069361767
Il1r2	chr1:40141612-40182070	0.725184	1.685151667
Gm15880	chr7:87780902-87789270	0.72472	3.234143333
Nme4	chr17:26228689-26232415	0.724597333	2.846473333
9030624G23Rik	chr12:24728066-24782134	0.722712433	1.123515667
Ceacam16	chr7:20437445-20446648	0.722023667	0
Acy1	chr9:106335326-106340567	0.721447	0.662443333
Cstad	chr2:30450563-30464465	0.721206667	1.912894
Styk1	chr6:131249161-131263845	0.7208083	0.104519333
Ubd	chr17:37330836-37333046	0.720766667	0
Dctd	chr8:49184445-49227021	0.720437467	1.122113667
Lbx2	chr6:83036358-83038235	0.719443333	0
Gjb6	chr14:57742139-57752414	0.717716333	5.479313333
Lat	chr7:133507341-133513048	0.716936667	1.047136667
Cyp4a12a	chr4:114971650-115005420	0.7164074	3.338933333
Plp1	chrX:133357374-133372281	0.716021667	0.315084
Gm14379	chrX:6953050-6955168	0.715912667	0
Itpripl1	chr2:126964504-126969193	0.715821333	1.449536
Timp1	chrX:20447291-20451863	0.714911667	0
4930550C14Rik	chr9:53213390-53240908	0.714843333	0.4726286
Eepd1	chr9:25289181-25411695	0.714256667	1.037907
Art4	chr6:136796971-136806121	0.712786667	0
Slc12a5	chr2:164793487-164825231	0.711769333	0.157288333
Plxnd1	chr6:115904828-115945023	0.711200667	3.196433333
Pspn	chr17:57138879-57139441	0.711163333	0.468089333
Tmem8b	chr4:43681842-43705539	0.711154333	1.227679333
Col10a1	chr10:34109786-34116891	0.710790667	1.070272333
Lpar2	chr8:72346463-72355001	0.710224667	0.658043133
Tm7sf4	chr15:39577477-39592480	0.710033333	0

A930007I19Rik	chr19:29578152-29596477	0.709705733	0.736058333
5430405G05Rik	chr2:151527743-151533046	0.708388	0.027463167
Dlgap5	chr14:48007453-48038082	0.707755733	0.3566917
Tcte3	chr17:15164117-15178523	0.707114667	0.703145333
Fabp6	chr11:43409613-43415013	0.70691	0
Zfp457	chr13:67393386-67407348	0.706617667	0.324540667
Col8a1	chr16:57624368-57754850	0.706191133	2.579695
Gm11240	chr4:73437147-73444282	0.705599333	2.548696667
Gm3604	chr13:62469075-62484534	0.704425333	0.244573667
ltga2b	chr11:102314610-102331197	0.7025095	0.2270142
Spdya	chr17:71901400-71938873	0.702484	3.21E-28
Ccl1	chr11:81990167-81993314	0.700963333	0
Dpf3	chr12:84370184-84828658	0.700325	3.623505667
Calca	chr7:121774991-121779871	0.699625	29.57663333
Mmp12	chr9:7347373-7360461	0.699273333	0
St3gal3	chr4:117604757-117807519	0.698582333	1.067143333
Vwc2l	chr1:70772288-70931971	0.69718	0
Efemp1	chr11:28753204-28826743	0.697045333	3.22504
Ssxb2	chrX:8031468-8038852	0.696791667	0.0992497
Npr2	chr4:43644806-43664112	0.69658	3.496803333
Syt9	chr7:114514303-114692169	0.6960513	3.593806667
Zfp92	chrX:70656441-70672326	0.695479333	2.7378607
Ppp2r2b	chr18:42804922-43219125	0.69472	0
Efna5	chr17:62952305-63230666	0.694288667	4.778073333
Aspm	chr1:141351349-141390665	0.693893667	2.559454
Cd109	chr9:78463352-78564067	0.693758333	10.93659
Rpgrip1	chr14:52730577-52781014	0.692387	0.0763698
Hspg2	chr4:137024717-137126545	0.691627	1.372823333
Pask	chr1:95206013-95239365	0.691553	0.735977833
Ticam2	chr18:46717884-46734187	0.691311	0.5737282
Vaultrc5	chr18:36961416-36961761	0.691103333	3.72098
Prtg	chr9:72655080-72765114	0.69098	1.395823333
Syt7	chr19:10463579-10527671	0.690780333	0.677782
lfitm5	chr7:148134860-148136138	0.689386667	0.168918333
Slc7a10	chr7:35971403-35986130	0.689305	0.368031
1700001J03Rik	chr5:146994025-146996880	0.688182333	0
Cmya5	chr13:93810669-93914679	0.6870617	0.004434533
Adamts17	chr7:73984620-74297511	0.685135	3.027106667
Pglyrp4	chr3:90530827-90545439	0.68257	0.188816333
Dgkb	chr12:38607291-39359997	0.681626133	5.684763333
Lck	chr4:129225587-129250885	0.681335333	0.072186
Slc17a9	chr2:180460043-180476983	0.681335	0.889793333
1700016C15Rik	chr1:179659944-179683436	0.681216667	2.041496667
Myh11	chr16:14194619-14291501	0.680815567	1.077132
Mms22l	chr4:24423608-24530095	0.680269	0.702787667
Pros1	chr16:62854159-62929166	0.680197733	2.577516667
Pom121l2	chr13:22073049-22080603	0.680143333	0
Acot1	chr12:85350451-85358619	0.680001667	4.556153333
Shisa3	chr5:67999121-68005226	0.679547333	0.69777
Syng3	chr17:24822036-24826894	0.679146667	0.0192337
Gfpt2	chr11:49607656-49652122	0.678881	5.155073333
Gemin6	chr17:80623828-80627837	0.678106667	1.333345667

Flrt2	chr12:96930435-97023423	0.6764328	2.08413
Gm3448	chr17:15101152-15115776	0.676346533	0.514077667
Clec5a	chr6:40524896-40535804	0.674737	0.102933667
Gm5136	chr10:108136099-108137216	0.673953333	0
Fam46b	chr4:133036047-133043855	0.673785333	6.008173333
B4galnt3	chr6:120153827-120244577	0.672898067	1.557823667
Polq	chr16:37011871-37095503	0.672601333	0.364887667
Speer4b	chr5:27822348-27827932	0.672226667	0
Lrriq3	chr3:154756397-154857242	0.671587333	1.562837667
Krt34	chr11:99898664-99902868	0.671566	0.153658967
Tshb	chr3:102581320-102586637	0.671473333	0.097016
Ccdc103	chr11:102742557-102746529	0.670819667	0.109472467
Slc2a4	chr11:69755787-69761692	0.670681	0
Kcnn4	chr7:25155281-25170231	0.670055333	0
Coro6	chr11:77277414-77283003	0.669758333	3.63518
Angptl6	chr9:20678252-20684154	0.669623333	0.436830667
Syt15	chr14:35033231-35043607	0.668666667	0.254909333
Smoc1	chr12:82127794-82287401	0.668615333	0.010339233
Rhobtb1	chr10:68671299-68754532	0.667632	1.054137333
7420701I03Rik	chr12:11054618-11085547	0.666967333	0
Tgtp1	chr11:48798830-48805748	0.66632621	0
Jam3	chr9:26904968-26963006	0.666228667	1.314757
Krt86	chr15:101303908-101310414	0.664847667	5.7736453
Maneal	chr4:124532482-124539415	0.664740667	0.896416667
D630032N06Rik	chr11:85048667-85051806	0.664243333	0.261392
Me3	chr7:96781327-97002869	0.663804667	1.019151667
Gdf11	chr10:128321601-128328774	0.662954	2.37412
Tcp11	chr17:28203691-28217584	0.6629431	2.014820333
Sh2d4b	chr14:41629156-41706254	0.662265333	0.315468633
Usp13	chr3:32716547-32834179	0.662248033	0.243396667
Gm606	chr16:26957320-26990060	0.662135533	0.094687
1810024B03Rik	chr2:127012090-127034016	0.662026667	0
Lipg	chr18:75098975-75120917	0.660722	1.647614
Htr2b	chr1:87995611-88008545	0.660599333	2.302035667
C1qtnf4	chr2:90725942-90730683	0.659086	0.432373
Acer2	chr4:86520317-86566785	0.658928	2.677849333
Glyatl3	chr17:41041689-41051299	0.658646667	0.216485667
Sema6d	chr2:124436031-124493506	0.658379667	2.204811
1700029F09Rik	chr1:44143461-44159233	0.657539333	1.723648333
Jakmip2	chr18:43691061-43847427	0.657143067	0.497711667
Cdo1	chr18:46872858-46887996	0.656299333	8.930963333
Krt12	chr11:99276977-99283573	0.653695667	0
Mpeg1	chr19:12535268-12539775	0.653604667	0.074863667
2900009J06Rik	chr1:129650193-129670631	0.653524667	0.167771
Ldlrad1	chr4:106881784-106890519	0.653185333	0.038115
Map3k15	chrX:156426364-156561283	0.652839	8.34163
Odf3b	chr15:89207879-89209685	0.652715667	7.093853333
Bai1	chr15:74346625-74419894	0.6526194	0.307603667
Tyro3	chr2:119625249-119643839	0.652523	2.916965667
Slc4a3	chr1:75542840-75556006	0.652242333	1.803422
Arhgap29	chr3:121656243-121719071	0.651444667	6.254546667
Kcnip2	chr19:45868159-45890293	0.64851	0

1200009I06Rik	chr12:112655640-112669394	0.648362333	0
Il18r1	chr1:40522396-40557699	0.647034267	1.771349667
Zfp558	chr9:18258497-18278003	0.646502333	1.13809
Ccr10	chr11:101034311-101036757	0.646403333	0.46344
Aldob	chr4:49548866-49562355	0.645616667	0
Phldb2	chr16:45746343-45844491	0.645578333	0.678675333
4933406M09Rik	chr1:136282516-136287560	0.644673667	0
Gm16853	chr9:21209685-21216164	0.643910333	2.008467167
Cldn15	chr5:137443738-137451715	0.6438347	8.213663
C1qtnf5	chr9:43909852-43917270	0.643693333	2.057830333
Dmd	chrX:80194208-82450389	0.643669667	0.612409667
Foxc1	chr13:31898514-31902504	0.643157	0.207765667
Dgkg	chr16:22466641-22657304	0.643094667	1.57086
Ccdc85c	chr12:109444554-109513627	0.642843167	3.775404333
9230110C19Rik	chr9:8021671-8042823	0.6423228	1.121732533
P2rx7	chr5:123093919-123141441	0.641771	3.239128067
Gm14306	chr2:176131421-176141950	0.641393359	0.015375478
Slc4a11	chr2:130509843-130523255	0.641306033	4.165163333
Pla2g1b	chr5:115916274-115924726	0.640283333	0.164357333
Ctps	chr4:120212472-120242881	0.6401426	4.168866667
Hes7	chr11:68933954-68936761	0.640125333	0
Cldn19	chr4:118928045-118935043	0.6399767	0.215683167
Zfp9	chr6:118411967-118429291	0.639817	0.684861
4930525G20Rik	chr13:67897530-67931922	0.638764	1.3942768
Tro	chrX:147079845-147091979	0.638364333	0
Slc16a14	chr1:84903279-84931658	0.637017667	0.118986333
Rilp	chr11:75323595-75326668	0.636473333	0
Fam82a1	chr17:80014239-80081492	0.635668333	0.788124
Gas2l3	chr10:88871567-88906712	0.635279667	1.755753
Mlxipl	chr5:135582760-135614252	0.634646667	3.466861667
Il12rb2	chr6:67242011-67326131	0.634073333	10.79811733
Gramd2	chr9:59555570-59564231	0.633953333	0
1110015O18Rik	chr3:4798707-4814911	0.633896333	0
Kifc5b	chr17:27054035-27069524	0.633838333	0.216765667
Gm514	chr9:65208866-65228184	0.63382	0.359773333
Sel1l2	chr2:140055593-140215446	0.633184333	0.153764667
2010010A06Rik	chr18:75448313-75456983	0.632218667	4.501946667
Srcrb4d	chr5:136436092-136450346	0.632166	0.626153833
Zglp1	chr9:20866836-20871537	0.632055667	0
Nrn1l	chr8:108417469-108418915	0.631886667	0
Rd3	chr1:193801253-193812163	0.630756667	0.043574
4930414N06Rik	chr19:45046606-45059040	0.630655333	1.61933
Fgfr1	chr8:26629243-26686186	0.629846667	4.57919
4932411L15	chr1:12657643-12663171	0.629295	0.268825333
Gm14482	chrX:10885880-10886389	0.62829159	0.000351906
4930555I21Rik	chr4:135051901-135093718	0.627339667	0.180899
Chrm4	chr2:91762345-91769986	0.627332	0.119853
Nppc	chr1:88562867-88567148	0.627175333	2.992606667
Plekha4	chr7:52781699-52809599	0.6269781	0.654617
C1qtnf9	chr14:61386970-61399706	0.626283333	0
Ugt1a7c	chr1:89991575-90116577	0.626222667	0.930322334
Rph3al	chr11:75645659-75724528	0.626070333	7.33011

Gm960	chr19:4625840-4698668	0.625777667	0.280770767
Gapdhs	chr7:31514905-31524375	0.624538	0.289130333
Stac3	chr10:126938772-126945871	0.624352933	0.383821
Mmel1	chr4:154243693-154269639	0.624286667	0
2700090O03Rik	chr8:34852583-34858242	0.62419	0
Zfp811	chr17:32933955-32946864	0.623809	0.572317733
4931428F04Rik	chr8:107804308-107813428	0.623746333	0.883434448
Dnahc5	chr15:28133520-28401800	0.623320433	2.031072
Shank3	chr15:89330287-89390691	0.623053333	0.192405
Npm3	chr19:45822223-45824053	0.622726333	1.6689
Mgat5b	chr11:116780176-116848258	0.622043667	0.801603667
Ngf	chr3:102273850-102324936	0.621563333	0.178127333
Ggt7	chr2:155316115-155340582	0.621518667	0.542415
Slc10a6	chr5:104034729-104058422	0.620586667	0.470907667
Kctd4	chr14:76354809-76365024	0.620562667	4.696693333
Lrrc23	chr6:124719880-124729736	0.620253333	12.89978867
D18Ertd653e	chr18:68092910-68415203	0.620128	0.371321
Dfnb59	chr2:76488329-76496613	0.61968	0
Dnmbp	chr19:43922456-43986882	0.618969	2.215251
Scd4	chr19:44407815-44421233	0.618726233	0.061425733
Gm14306	chr2:175295525-175306054	0.618563356	0.006750825
Mmp28	chr11:83255377-83276463	0.618526333	0.4532433
Txlnb	chr10:17516024-17565469	0.6180657	0.152073
Recql4	chr15:76533982-76540989	0.617694	0.336830867
Chd5	chr4:151712759-151764303	0.617552	0.150935667
Naaa	chr5:92686685-92707207	0.617335	1.64233
Cabyr	chr18:12899863-12913651	0.616494	0.82063
Hip1	chr5:135882387-136020992	0.615876167	0.761393333
Gm19466	chr18:53807804-53865072	0.615726	7.008686667
Pid1	chr1:84032867-84281220	0.615686	0
Ankle1	chr8:73929910-73933803	0.6150346	1.913029333
Chrnd	chr1:89087226-89096645	0.614363333	4.484593333
2310061J03Rik	chr16:55973380-55974730	0.614348333	0.631805333
Kif18a	chr2:109120894-109181903	0.614213	4.356123333
Arhgef19	chr4:140798798-140813477	0.614032	2.120369667
Abi3bp	chr16:56477958-56690248	0.6128446	1.767188
Wdr63	chr3:145703489-145771000	0.612468667	1.14729
BC048609	chr19:6080037-6080785	0.611952667	2.985743333
Zfp354a	chr11:50872758-50886301	0.611891333	1.237187667
Wnt7b	chr15:85365866-85412251	0.611388667	1.47676
Gm4636	chr7:28769489-28799134	0.611026333	0.485179667
Ar	chrX:95345088-95512486	0.61041	1.05193
4632428C04Rik	chr16:30008752-30021516	0.610123333	0.240563333
2310014L17Rik	chr7:13512764-13516421	0.609828067	9.684843333
Prrt2	chr7:134161055-134164725	0.609600267	1.691874667
Mnd1	chr3:83891855-83959708	0.608664667	2.966983333
Cpne2	chr8:97056927-97094429	0.608228967	3.143964333
Fut4-ps1	chr17:56873650-56878715	0.606773333	0
Slc5a4a	chr10:75610195-75652010	0.606319667	0.709052
9230116N13Rik	chr1:138308492-138312096	0.605203	0.503883333
BC021785	chr10:39677866-39706452	0.604123333	0.0860035
Cdc42ep1	chr15:78673076-78681332	0.60316	1.142173667

LOC433047	chr16:88811684-88812465	0.60241	3.985366667
C85492	chr9:121890723-121905144	0.601749	2.159797667
Adam4	chr12:82520535-82522865	0.601646	1.602265667
Gm10334	chr6:41392212-41396096	0.599877333	0
Nxn1	chr8:74084453-74090548	0.5994956	0
Epdr1	chr13:19683576-19711699	0.599410767	3.127293333
Scnn1b	chr7:129008624-129062030	0.597664933	3.506433333
Cyp7b1	chr3:17971949-18143338	0.597622	1.9343
Lilrb3	chr7:3664106-3671984	0.596074	0.234905
BC064078	chr6:128943037-128956667	0.595884333	5.042199333
Inhba	chr13:16106307-16119044	0.595783333	0.102022
Zik1	chr7:11072572-11080730	0.59556	0.547932533
Gm14440	chr2:175100625-175112306	0.593788	0.213105467
Tsen2	chr6:115494721-115528354	0.593636	1.071910033
Sgol2	chr1:58042183-58083121	0.593120333	2.782193333
Pfkfb4	chr9:108893946-108934739	0.592885667	2.180999
Klrb1b	chr6:128763723-128776333	0.592236333	0.308604667
Fcho1	chr8:74232285-74249580	0.591109667	3.990706667
Chrne	chr11:70428384-70432696	0.590357067	3.343277
Klk1	chr7:51480806-51484987	0.59011	99.32256667
Ccdc73	chr2:104726480-104839894	0.589605	0.992304333
Fam54a	chr10:20067624-20081475	0.589472333	1.080367333
Upk1b	chr16:38773296-38800316	0.589425933	10.07
Xylt2	chr11:94525160-94538807	0.5892	3.502604333
Gckr	chr5:31599953-31629675	0.588831	0.186472
Gm14288	chr2:175100624-175112306	0.588611333	0.2118173
Socs1	chr16:10783901-10785629	0.588525	3.372033333
Prok2	chr6:99661292-99676386	0.58839	23.70025017
4933400C05Rik	chr11:103069440-103079746	0.587846667	0
Baiap2l2	chr15:79088624-79115939	0.586217433	0.292532667
Psmb9	chr17:34319043-34324275	0.586183333	2.540823333
Thsd7a	chr6:12261607-12699253	0.586144267	0.347454467
Sox11	chr12:28019132-28027583	0.586098667	2.82305
Prlr	chr15:10106992-10278935	0.585952333	2.60543
Gm13139	chr4:146506201-146554688	0.585670753	1.23377012
Adam8	chr7:147164839-147178387	0.585406667	3.840352
Daam2	chr17:49595346-49703662	0.585235667	0.152991
BC033916	chr17:34042079-34043620	0.5852	0
Plin4	chr17:56240013-56249225	0.584562933	0.314973
Gm14440	chr2:176318181-176329862	0.584517	0.2032832
D330050G23Rik	chr2:116725887-116738527	0.584313333	0
B430010I23Rik	chr8:42102821-42109570	0.583652367	0.80724
C130079G13Rik	chr3:59729135-59741871	0.583629333	0.326039
Unc5d	chr8:29757188-30330108	0.583481667	0.67519
Epdr	chr9:21763342-21768020	0.583228	0.723813233
Bdkrb1	chr12:106842300-106843638	0.582645	0
Gm20604	chr12:103978039-103996020	0.581723333	0.480456668
Fads3	chr19:10116037-10134161	0.581362667	0.792513333
Gpc3	chrX:49625603-49967151	0.581094333	3.5238
1700110C19Rik	chr17:10517466-10522177	0.580261333	0
Bmp1	chr14:70874361-70920067	0.579892333	2.865146667
Gm14440	chr2:175788488-175800169	0.579668333	0.220846667

Ctrl	chr8:108455893-108457762	0.57966	0.628803667
A830082N09Rik	chr10:33707021-33714861	0.579451333	0.109478167
Ceacam18	chr7:50890108-50904664	0.5792	0
Cit	chr5:116295664-116456350	0.578744	0.699912333
Nckipsd	chr9:108710710-108720697	0.578213667	1.389888433
Snx22	chr9:65912982-65917538	0.578083667	2.7836633
Aars2	chr17:45643789-45657792	0.577812333	1.10637
Olfr12	chr1:94516457-94517578	0.577496	0
Nrg3	chr14:39182136-40286376	0.577328333	0
C630043F03Rik	chr4:71862277-71864964	0.577204667	0.298839
A930019D19Rik	chr2:146085021-146092896	0.577038	0
A230051G13Rik	chr11:58968870-58977244	0.576713233	1.636129667
Vmn1r77	chr7:12626647-12627568	0.5765	0.118528667
Tmem185b	chr1:121422730-121425560	0.576482333	0.389868333
A730037C10Rik	chr3:54943959-54976857	0.576031767	0.032690767
Zc3hav1l	chr6:38237393-38249259	0.5748878	9.945643333
Esrrg	chr1:189432884-190038763	0.574836367	6.10083
Gm14288	chr2:175788488-175800170	0.574633333	0.218968633
Arhgap40	chr2:158338531-158376364	0.573626667	1.417944333
Sox8	chr17:25702837-25707631	0.572916667	6.14603
1700055N04Rik	chr19:3958807-3970438	0.572646	0.505670333
4930426L09Rik	chr2:18919945-18921431	0.572496333	0
1700101I11Rik	chr6:129482201-129483302	0.571707333	0
Npas2	chr1:39251116-39420085	0.571147667	4.330073333
Gm14288	chr2:176318181-176329863	0.5711	0.201433167
Lat2	chr5:135076134-135090893	0.570906667	0.033731333
Kif18b	chr11:102766832-102786438	0.569766667	0.94284
Smtnl2	chr11:72203615-72225215	0.56972	0.229329533
Arhgap25	chr6:87409378-87483229	0.569072933	0.36849
Espnl	chr1:93218651-93244880	0.568886	0.095370333
Ppara	chr15:85565993-85637281	0.568681333	0.4591814
Zfp947	chr17:22281325-22302944	0.568027	0.384095
Zfp78	chr7:6316014-6335315	0.567573	0.409696967
Aadacl2	chr3:59810664-59829342	0.566964333	1.80638
Mospd4	chr18:46624587-46625470	0.566879333	0
Gm13375	chr2:20890500-20891975	0.56682	5.256286667
Klhl32	chr4:24544419-24778233	0.566777	0.216276667
Ctsk	chr3:95303207-95313284	0.565677333	2.817463
5430435G22Rik	chr1:133585271-133610041	0.565324267	1.057530333
F5	chr1:166081989-166150405	0.564459767	3.908825333
4921511C10Rik	chr3:79016840-79057835	0.563791333	0.098528333
Dnahc6	chr6:72967600-73171625	0.563306333	1.386546667
Itga10	chr3:96449506-96468442	0.563150667	1.989873667
Dnahc7a	chr1:53453845-53763628	0.563091333	0.847019333
H2-Q8	chr17:35531043-35532577	0.562499	2.497456333
Ppp1r3g	chr13:36059774-36062257	0.561796667	0
Dcc	chr18:71413285-72510723	0.561311667	0.006650433
Rnf144a	chr12:26991662-27100121	0.560741667	0.006894933
Pxt1	chr17:29070930-29079207	0.558483667	0.041797667
Calcr1	chr2:84170782-84265423	0.558367	0.579330333
Gm7550	chr12:55488719-55492305	0.557705	0
Dnaic1	chr4:41516826-41585191	0.557196233	0.667253833

Col7a1	chr9:108855789-108886920	0.556595333	1.185069667
Klhl30	chr1:93247649-93258981	0.556163333	0
Pcx	chr19:4510471-4621752	0.555985333	2.091012667
Nppa	chr4:147374854-147376176	0.55567	0
Tram2	chr1:20991458-21069306	0.555473333	5.744696667
Celsr3	chr9:108728650-108755300	0.555360667	0.683214033
Fam149a	chr8:46422068-46467645	0.55531	1.515408
Zcwpw1	chr5:138229029-138263849	0.555022333	1.00892
Gm9926	chr18:66663831-66671391	0.55407	0
Limch1	chr5:67137078-67448398	0.553743567	0.924605667
Dpp4	chr2:62168129-62250288	0.553252333	1.066661
Ltk	chr2:119577061-119586167	0.553027333	1.179137
Gm17365	chr9:35452697-35455787	0.552966667	0
Scin	chr12:40786357-40860815	0.552729	1.29859
Hectd2	chr19:36629128-36695625	0.552228333	0.690538967
Slc25a2	chr18:37797031-37798377	0.55213	1.463608733
Gm19897	chr7:29559917-29566533	0.551897333	0.937010333
Gm3985	chr8:33998976-34060498	0.551779667	0
Gm14207	chr2:119146934-119151933	0.551694667	4.012287108
Rimbp2	chr5:129266275-129459237	0.551254667	0.77581
Serpina3n	chr12:105644917-105652539	0.550143333	0.143527667
Rasgrp4	chr7:29919951-29938974	0.550080333	0.596030667
Cryba1	chr11:77532233-77538795	0.549089667	1.721406667
Plcd3	chr11:102931609-102962972	0.548012667	0.694370667
2700099C18Rik	chr17:95149439-95174469	0.547791333	0.410805667
Pipox	chr11:77694116-77707374	0.547573333	0
Tsnaxip1	chr8:108351643-108368576	0.547013333	2.336449
AI607873	chr1:175653558-175671940	0.546806667	0
Rasa4	chr5:136559785-136587730	0.546016667	0.010943667
Frem1	chr4:82543823-82698071	0.545748333	0.542766
Tecta	chr9:42137704-42208012	0.545520433	0.686172333
Dleu7	chr14:62895065-62911816	0.545411	0.170005333
4931403E22Rik	chr19:26843290-26898397	0.545317	0.588642
Fam171a2	chr11:102298295-102308977	0.545246	3.471583333
Adamts1	chr16:85794072-85803360	0.545033	2.169081333
Cdk5r1	chr11:80290547-80294681	0.544936	0.855452667
5730559C18Rik	chr1:138110098-138130857	0.544098	7.418273333
Cel	chr2:28411339-28418882	0.543655667	0
Myo7a	chr7:105199563-105268003	0.543595333	1.373371667
Nr1h3	chr2:91024217-91035273	0.5432564	0.038771333
Fam24a	chr7:138478135-138480230	0.542093333	0
Rai2	chrX:158154967-158217426	0.541892	0.763820667
Xylt1	chr7:124524492-124811144	0.5404169	0.446899
Cyp2a4	chr7:27092210-27100107	0.54024	1.929495333
Olfm1	chr2:28048612-28086256	0.540189767	0.563908
C030030A07Rik	chr6:136778451-136783971	0.5395464	0.015246167
Gm19710	chr3:89802681-89805247	0.539083	1.09685
Sall2	chr14:52930851-52948345	0.538976	0.505097
Arsj	chr3:126066769-126143292	0.53889	0.621595333
Arhgap6	chrX:165233030-165742367	0.538733333	0.136863
Gm10436	chr12:89414032-89420338	0.538228	1.913197667
Plcb1	chr2:134611899-135300994	0.538210667	0.0475152

Gm600	chr14:66224103-66267280	0.537323333	0
Cpxm1	chr2:130216510-130223365	0.536734333	0.6654949
Abcg4	chr9:44081272-44096327	0.5364783	3.06023
Nmral1	chr16:4711317-4719059	0.535821667	7.047921
Amotl2	chr9:102620133-102635747	0.535373767	1.58378
Olf995	chr2:85278365-85279313	0.535003333	0
Catsperg1	chr7:29966550-29999052	0.534616667	0
Ank1	chr8:24085353-24260968	0.534088	0.052589833
Gm10536	chr18:57095913-57100172	0.533746667	0
Csf1r	chr18:61265225-61290793	0.533354833	0.429066667
Prex2	chr1:10983545-11293763	0.533278433	0.6313541
Gm13285	chr4:88443300-88443849	0.533166667	6.37E-08
Npm2	chr14:71047108-71052891	0.532212667	0.34203
Ybey	chr10:75922311-75931859	0.531937633	1.18861
Cux2	chr5:122310224-122497834	0.531919333	1.079172
Hist1h1a	chr13:23855536-23856283	0.53181	0.943907667
Mzf1	chr7:13627651-13640113	0.530432	0.112566
Rhbdl3	chr11:80114413-80169488	0.530259333	0.444708667
LOC626904	chr6:25881425-25927227	0.530220667	0
Zfp940	chr7:30628954-30638667	0.528719667	2.551985667
Capn12	chr7:29666674-29678604	0.528425333	0.536235667
Gbp5	chr3:142159897-142185308	0.527600333	0
Cyp2d22	chr15:82200956-82210690	0.526983333	0.133241667
Eda2r	chrX:94529179-94572548	0.526202333	1.244826667
Sphk1	chr11:116393224-116397989	0.525491	0.101406667
Ksr1	chr11:78828302-78959856	0.525246667	0
Mybl2	chr2:162880370-162910423	0.525013333	0.414167967
Fam69a	chr5:108337060-108416096	0.525009433	0.287538333
Fbp1	chr13:62966112-62989596	0.523716	1.468624767
Rnf207	chr4:151681131-151692734	0.5236471	1.045632633
Cdh3	chr8:109034790-109080808	0.523208	3.516082
Serp1b13	chr1:108877560-108897772	0.522386533	0.048162333
Nhlrc1	chr13:47107925-47110219	0.5219487	0.625202833
Htra4	chr8:26135399-26149434	0.521621333	0
Gpr124	chr8:28196312-28233908	0.520361233	0.259223333
Stc1	chr14:69647345-69659458	0.520188533	0.880812667
Dhfr	chr13:93124737-93159008	0.518819133	0.040895167
Mc1r	chr8:125930981-125934647	0.518469667	1.466440633
Zfp300	chrX:20656275-20666355	0.517724	0.483473
Sox2ot	chr3:34459302-34576915	0.517628333	0.2708053
Fat3	chr9:15714636-16182675	0.517418033	5.277386667
Ckap2	chr8:23278623-23296291	0.517279667	2.301109
Nlrp4f	chr13:65278418-65307024	0.517125333	0.0169317
Tal2	chr4:53792576-53799757	0.515367333	0
1110017F19Rik	chr11:115773330-115775231	0.515347667	14.56655333
Nhedc2	chr3:134970663-135005731	0.515343333	0
Tmeff2	chr1:50984366-51244114	0.515194933	0.032250233
Tnfrsf13c	chr15:82052173-82054766	0.514803333	1.265746
Plk5	chr10:79819203-79828234	0.51457	0
Wdr93	chr7:86888048-86930836	0.514001167	0.676696667
Tmc7	chr7:125679357-125728200	0.513932333	1.880026667
Ccdc78	chr17:25923524-25927458	0.513908	1.024126667

4930422G04Rik	chr3:127256406-127320941	0.512447667	1.49876
Fbxw10	chr11:62660624-62690964	0.512165333	0
Gpr157	chr4:149461611-149480036	0.511974733	0.987510667
Caskin1	chr17:24625727-24645852	0.511569	0.541144
Atg9b	chr5:23889998-23897961	0.511303067	0.838433333
Shh	chr5:28783379-28793641	0.511282333	2.875872667
Tekt3	chr11:62875160-62908462	0.511106667	0
Col20a1	chr2:180721239-180752245	0.510991333	0.762944333
Neurl1b	chr17:26551909-26583287	0.510030333	1.516430333
Lrrc50	chr8:122099134-122122354	0.509916667	1.62673
4930417G10Rik	chr12:4720610-4745189	0.509339333	0.077008
Higd1b	chr11:102697609-102699353	0.508652333	0.117843667
1190005I06Rik	chr8:123132501-123158282	0.508652333	0
Nptx1	chr11:119400032-119409134	0.5086453	0.754176667
Tmem211	chr5:113655928-113668283	0.508514	1.651333333
Gm4566	chr17:71682540-71691144	0.507006667	0.453710333
Zdhhc14	chr17:5492599-5753891	0.506194967	5.67775
Slc2a9	chr5:38740511-38893391	0.505753333	1.305655
Mfsd3	chr15:76531971-76534669	0.5055168	8.576083333
1700025M24Rik	chr5:73659818-73675423	0.505336333	0
Htr5b	chr1:123406349-123425042	0.505293333	0.093755667
Rnf180	chr13:105937573-106083094	0.505276767	0.684413667
Kctd21	chr7:104480832-104498726	0.505036	0.434877333
Sct	chr7:148464236-148465030	0.504926	0.340103333
Tmem108	chr9:103385265-103664167	0.504636	0.0161293
Clca1	chr3:144393279-144423703	0.504600133	2.3149417
Slc22a13b	chr9:119129608-119140810	0.504388333	1.599398567
Ccne2	chr4:11118500-11131926	0.504346467	0.288649333
1700123M08Rik	chr4:11893720-11921442	0.503780667	0.393063333
Neto2	chr8:88160486-88214908	0.503455	6.56647
Qrich2	chr11:116302638-116315661	0.503409667	0.204262133
Egf	chr3:129380492-129458240	0.5021872	1.056946667
Ssxb5	chrX:8380816-8386512	0.502156333	0.065196
Tigd3	chr19:5891137-5894107	0.501872667	0.2093027
D3Bwg0562e	chr3:117022062-117063794	0.501641333	2.250593
4833412C05Rik	chr7:74929423-74948382	0.501376667	0
Hunk	chr16:90386641-90499798	0.501374667	0.674115333
Plaur	chr7:25247518-25260892	0.501119667	2.581019333
Cfb	chr17:34993318-34999459	0.500460433	2.368996667
6530418L21Rik	chr3:105507516-105523760	0.500214533	0.717164333
Gm5797	chr14:8156501-8164909	0.499343333	0
AW046200	chr8:60130549-60142227	0.499228667	0.371506867
Sall4	chr2:168573831-168592701	0.498432333	0.605719
Klf8	chrX:149672587-149830677	0.497645833	0.087119667
Pltp	chr2:164665017-164683208	0.49735	1.9027214
Nell1	chr7:57230719-58118659	0.497072333	0.586480667
Gm14873	chr17:47836917-47838945	0.496760042	1.161806667
Derl3	chr10:75356142-75358686	0.496241667	0.826727333
Cdyl2	chr8:119092623-119256891	0.495453	1.898397333
Itga4	chr2:79095582-79173271	0.495229333	0.024851067
Zfp72	chr13:74508873-74514014	0.493009333	2.792288333
Disc1	chr8:127578094-127785051	0.492973	0.1338113

Cenpt	chr8:108368577-108375908	0.492807667	4.440776667
Nr1i2	chr16:38248434-38294910	0.492486667	1.598214333
5730577I03Rik	chr9:20411918-20421715	0.492362333	0.537973367
Gpr182	chr10:127186657-127188854	0.492114067	0.045338
Sync	chr4:128964864-128985803	0.491918	3.34E-11
Etv2	chr7:31418634-31420871	0.491457667	0
Igdcc4	chr9:64949301-64985750	0.491368	0.933037667
Tmem198b	chr10:128237091-128241426	0.491301333	8.916477667
Cp	chr3:19857053-19907609	0.49124	3.180333333
4933406J10Rik	chr7:89891855-89904154	0.491079667	3.393665333
3110021N24Rik	chr4:108392253-108454509	0.490735	2.055116333
Gsdmd	chr15:75692768-75697834	0.4905486	3.957172333
Nkain1	chr4:130125704-130169623	0.489985	0.215833667
Zc3h12d	chr10:7552267-7590195	0.488655233	0.245879
Gm5124	chrX:20937990-20941750	0.486947333	6.25069
Atp13a5	chr16:29231999-29378818	0.486384633	0.811576667
Paqr7	chr4:134052892-134064725	0.486024333	1.977466667
Gm14685	chrX:70382570-70388763	0.48556	1.788116893
Fbxo5	chr10:4541075-4547383	0.485185	6.451489667
Ager	chr17:34734806-34737877	0.485093333	0.913774
Apom	chr17:35265941-35268697	0.48474	0.133287333
Traf3ip3	chr1:195001697-195027740	0.484334333	0.218424667
Crispld1	chr1:17717497-17756288	0.4840928	0
Tgtp2	chr11:48798830-48805756	0.48374815	0
Gm11938	chr11:99463959-99464622	0.4821	0.139562333
Piwil2	chr14:70772286-70828901	0.4820168	0.225741667
Eltd1	chr3:151100845-151208045	0.481503333	0
H2-Q9	chr17:35576111-35580715	0.480502602	1.01E-05
Hspb9	chr11:100575163-100575889	0.479973667	0
Tbx6	chr7:133924996-133929062	0.479039433	0.505679133
Pbk	chr14:66424747-66436659	0.47891	0.559224
B3galt4	chr17:34086856-34088433	0.478517333	0.385848
Gm5887	chr6:147023583-147035554	0.47823	0
Phf11	chr14:59895749-59916359	0.477760667	0.3971
Ccdc113	chr8:98057999-98082788	0.477543333	1.059723
Pcdh18	chr3:49547217-49561238	0.477003333	0.022654567
Akap5	chr12:77425877-77435138	0.476927667	1.47154
Ptch2	chr4:116768960-116787436	0.476761667	1.798732333
1700094J05Rik	chr10:75851759-75864252	0.476615017	0.124986724
Arhgef40	chr14:52604507-52625922	0.476307333	3.676593333
Lce1c	chr3:92483168-92484840	0.476246667	0
Bhlha15	chr5:144951154-144955310	0.475833833	3.12895
4921515J06Rik	chr3:108743001-108763694	0.475706333	1.570793333
Gm6583	chr5:112782820-112785053	0.474733333	0.332564333
Inha	chr1:75503651-75506929	0.474035333	3.270430667
Dlg4	chr11:69832106-69859033	0.473532333	5.4025
Irg1	chr14:103446228-103455790	0.473193333	0.200756667
Gprin1	chr13:54838033-54851030	0.472995533	0.1412236
Thsd1	chr8:23337774-23371804	0.472883333	1.029286667
Gm6194	chr3:8461386-8463098	0.472569333	0.128852
Adap2	chr11:79967663-79992329	0.47214	0
Gm6277	chr18:11979596-11997886	0.472130667	0.046911667

Gm16982	chr7:148795964-148799646	0.472056333	0.157490567
Stk10	chr11:32433265-32524595	0.471582	0.58987
B230319C09Rik	chr6:83391748-83398316	0.471420567	1.365629667
Gm13285	chr4:88425753-88426302	0.471347967	0.030359033
Tgm2	chr2:157942140-157972128	0.470892267	4.038507233
H1fx	chr6:87930414-87931476	0.47072	2.134674
Nfatc4	chr14:56443631-56452780	0.470422	1.020306667
Olf988	chr2:85193151-85194081	0.470256	0
Itpk1	chr12:103806792-103943079	0.469529933	1.618381667
Ska1	chr18:74354952-74367472	0.469510433	0.24685
Pycr1	chr11:120497025-120504984	0.469420333	0.354295
Hspa12b	chr2:130953147-130971719	0.4691078	0.175576933
Dram1	chr10:87785548-87819820	0.468913667	0.906686467
Drd3	chr16:43762354-43822952	0.468786667	0
Grin2c	chr11:115110482-115128557	0.4670272	1.920430667
Syt3	chr7:51639495-51655400	0.466802067	0.741177
Nfkbid	chr7:31208322-31213765	0.466287333	0.274156267
Thbd	chr2:148230206-148233924	0.466132133	25.1905
Flrt1	chr19:7166501-7180219	0.466052667	0.3417538
Panx2	chr15:88890155-88901337	0.465859	1.626291667
Nipal4	chr11:45961656-45979861	0.465825667	3.411796667
Tgfb1i1	chr7:135390384-135397226	0.464969667	2.791431
4933436C20Rik	chr8:94849931-94880019	0.464923333	0
Fhl1	chrX:53984963-54046523	0.4647551	1.870397333
1700100L14Rik	chr13:70712118-70714982	0.463813333	0
Gm4710	chr17:76260362-76288379	0.463483333	0
Skap1	chr11:96325904-96620936	0.463363333	0
Rlbp1	chr7:86519755-86531913	0.462871333	1.138894033
Rrm2	chr12:25393118-25399011	0.462609333	1.599115333
Tmem63c	chr12:88367513-88430989	0.462405333	1.853393333
Cenph	chr13:101529640-101545854	0.462360333	11.84633333
Lrp1	chr10:126975213-127058204	0.462267	2.74057
Cd96	chr16:46035769-46120361	0.462011567	0
Chrm3	chr13:9875858-10360049	0.461775933	0.037973667
4930483O08Rik	chr7:140319933-140334140	0.461709333	0.239789
Fam176b	chr4:125825246-125827118	0.460923333	0.145893
Clspn	chr4:126234223-126271147	0.460628153	0.7789258
Mettl7a3	chr15:100165359-100170600	0.4604919	0.022723167
Gpr75	chr11:30785357-30793725	0.459957833	2.522251667
Gm10865	chr15:78825384-78841471	0.459794333	0.283845667
Psemb11	chr14:55244146-55248393	0.458482333	0.314314
Cpsf4l	chr11:113559484-113571331	0.458316333	0.149897
Zfp951	chr5:105242186-105289087	0.4581958	0.372884333
Nudt10	chrX:5745814-5750109	0.456187667	0.041032333
Isl1	chr13:117088477-117099896	0.456077	1.45413
St8sia6	chr2:13576564-13715147	0.456063333	3.716266667
Gm15941	chr15:37350887-37362419	0.456024667	0.208169667
Fhl5	chr4:25127055-25170023	0.455726667	0
Cdk1	chr10:68799382-68815660	0.455123667	1.135512333
Havcr2	chr11:46268432-46294756	0.454953167	0.364615667
Slc10a5	chr3:10331733-10335656	0.454563333	0.703103
1810013A23Rik	chr17:28408652-28410108	0.453603333	9.20014

Igfbp1	chr11:7097789-7102549	0.453396667	0
1810062O18Rik	chr14:21365514-21389902	0.452765333	3.825966667
Olf1371	chr11:52026553-52027489	0.451515167	0.2684079
1700001K23Rik	chr19:53323225-53329695	0.450203333	0.24225
Cd34	chr1:196765014-196787486	0.450185667	1.235849667
Mst1r	chr9:107809219-107822714	0.450109	0.980108667
9330159M07Rik	chr9:88736635-88753708	0.4499104	1.358215
Gm16523	chr2:39013005-39017755	0.449388667	3.263730333
Cdh12	chr15:21041206-21519288	0.448486967	1.582115333
Src	chr2:157250028-157297574	0.448002	2.673116667
Tmprss6	chr15:78270096-78299064	0.447885267	2.7922
Spag16	chr1:69873561-70771706	0.447143667	0.055393333
Nek10	chr14:15653328-15839207	0.447138667	1.141616667
Dusp5	chr19:53603807-53615812	0.446626333	0.778676667
Gen1	chr12:11247731-11272593	0.446248833	2.504031467
Grk4	chr5:35003027-35097952	0.446155333	2.427200667
C230079O03	chr7:143523898-143541098	0.445415667	1.76403
Kif7	chr7:86842983-86859072	0.4450263	0.645315
5830473C10Rik	chr5:90990234-91026932	0.444909333	0.7773217
Dbc1	chr4:68422405-68615431	0.444460333	0
Gm14405	chr2:175594788-176850107	0.444229333	0.591107
Adamts6	chr13:105077952-105284843	0.443582433	0.145862333
Fads2	chr19:10138653-10175993	0.443058	14.09145
Tiam2	chr17:3326572-3519397	0.442831667	5.25597
Spata21	chr4:140644259-140668674	0.442666667	0.012193833
AI464131	chr4:41442633-41450108	0.440808733	0.338519667
4732471J01Rik	chr7:26180432-26351436	0.440389667	0.077406167
Gm9766	chr10:52997886-53099657	0.43987	0.540420867
Madcam1	chr10:79127318-79131281	0.439206667	0
Hcls1	chr16:36935068-36963300	0.439078667	0
P4ha2	chr11:53914425-53945169	0.438896333	1.229307667
Otop3	chr11:115196047-115208240	0.438871333	4.143472333
Tnfsf9	chr17:57244807-57247180	0.438788	0.027536667
Antxr2	chr5:98313706-98459981	0.43759	1.228076667
Preli2	chr18:42035349-42110848	0.437433333	0
Ddx31	chr2:28695925-28761095	0.437158667	2.406951333
H2-M3	chr17:37407178-37411430	0.43637	3.839492
Padi3	chr4:140341283-140366563	0.436331667	0
Prdm6	chr18:53624199-53735511	0.435691	0
Gcnt7	chr2:172275812-172284096	0.435433333	0.513279967
Tbc1d10c	chr19:4184356-4191047	0.435274	0.0398482
4930572O13Rik	chr14:25959280-25962727	0.434003333	0
Gpr22	chr12:32391731-32398791	0.433950333	1.008340667
2410004A20Rik	chr9:72950204-72952250	0.433679267	0.0798746
Gm17727	chr9:35584108-35585694	0.433386667	1.377086667
Apcdd1	chr18:63081980-63112849	0.433100467	7.470399
S100a4	chr3:90407691-90409967	0.43305	31.6741
Tssk1	chr16:17894295-17895746	0.4329791	0.068607
Mob3b	chr4:34896322-35104733	0.432894	1.428497333
Coch	chr12:52694327-52706760	0.431821033	0.963013333
4933431G14Rik	chr6:72070206-72073191	0.431424333	0.023041767
Piwil1	chr5:129242120-129261349	0.430267067	0.525854333

Amac1	chr11:69573386-69575346	0.430265	0.130496333
Magel2	chr7:69521864-69526526	0.430030433	0.132319
Gm1976	chr17:95159281-95234139	0.4293535	3.133286467
4921510H08Rik	chr10:97155692-97157560	0.429082667	0
Papln	chr12:85104583-85133334	0.428894	0.210830433
	3-Sep chr11:87394632-87404041	0.427972333	0.303215667
Lmod2	chr6:24547770-24555414	0.42698	7.572385
Sertad4	chr1:194670681-194681946	0.426431333	6.717605
Atp8b4	chr2:126146708-126317289	0.426218667	0.396357
Raet1e	chr10:21893326-21903720	0.425834	0
AI506816	chr5:23198078-23218485	0.425581	0.931056667
Olfr994	chr2:85270039-85270984	0.425396667	0
4732456N10Rik	chr15:101382786-101393381	0.425133333	0.072502
Iqub	chr6:24394864-24465067	0.424623333	1.040622833
Prkcdbp	chr7:112629129-112630711	0.424556667	1.939311333
Gm15612	chr6:88792847-88797268	0.424477	1.272307667
Spry4	chr18:38745918-38760922	0.424346	1.784545
E130306D19Rik	chr4:43509015-43512532	0.424078767	2.68719
Acsbg1	chr9:54452803-54509692	0.423917667	5.02967
9030612E09Rik	chr10:42894509-42896368	0.423907333	0.34062
Ppifos	chr14:26515841-26520768	0.423391267	9.256098
9530051G07Rik	chrX:149472171-149507458	0.422970667	0
Lox13	chr6:82984217-83002558	0.422949333	0.039535667
Klh13	chrX:22796396-22942179	0.422786667	2.686738167
A230073K19Rik	chr7:66537248-66544536	0.422621333	1.159807667
Slc39a2	chr14:52513284-52516420	0.422383333	0.499597667
4930529C04Rik	chr3:90875583-90879114	0.421782	0.791972333
Pdk4	chr6:5433350-5446278	0.421190667	0.717924
Prkcq	chr2:11094008-11222853	0.420516667	0.249323667
Kif12	chr4:62826670-62833165	0.419786667	0
Prss41	chr17:23973751-23981123	0.418726333	2.969643333
Hmgcl1	chr9:75862783-75984157	0.418452333	0.338672967
Thpo	chr16:20724526-20734584	0.418376667	0
Nrp	chr12:88783797-88784967	0.418191	0.301056667
Riid1	chr3:94268906-94277513	0.417996667	5.109133333
Camkk2	chr5:123181179-123229419	0.417762733	1.095162
Rab42-ps	chr4:131858108-131859271	0.41696	5.134512667
Plscr4	chr9:92352215-92387354	0.416947333	0.272558167
Comp	chr8:72897446-72905965	0.416599333	1.490263333
Wdr76	chr2:121332458-121370595	0.415857933	0.709044333
D830030K20Rik	chr14:3224445-3234357	0.415779	0.16275
4933433G15Rik	chr9:75257990-75263344	0.415180667	0.356786667
1700013F07Rik	chr3:108340501-108347615	0.414533333	0
Rps6ka6	chrX:108501800-108651554	0.414316833	3.158280333
Tbc1d2	chr4:46617261-46663071	0.4141346	0.6763182
Gimap9	chr6:48626133-48628703	0.413702667	0
Arhgap11a	chr2:113671649-113688818	0.413563	3.79488
Rnf183	chr4:62088575-62095760	0.413497	0
Zfp820	chr17:21953842-21982726	0.413026	0.149734
Napsa	chr7:51827814-51842216	0.412413667	0
Gm16617	chr14:52606063-52608504	0.41201	4.962245667
	2-Sep chr15:82105364-82124872	0.411785833	6.32143

Lhx6	chr2:35937472-35960928	0.41099	4.531225333
Cd276	chr9:58372106-58388747	0.41084	2.18817
Spc25	chr2:69031951-69044247	0.410318933	1.67372
Pdia2	chr17:26332943-26336032	0.410193667	1.314520033
C330027C09Rik	chr16:48994300-49019818	0.410184333	1.2739999
1700022I11Rik	chr4:42982817-42987197	0.410095	0.97136
Olf126	chr17:37987538-37988498	0.409973333	0
1700011H14Rik	chr14:49846033-49865103	0.409104667	0.562506667
Gm10538	chr1:134625929-134629403	0.408383333	4.693157667
Cox8b	chr7:148084840-148086345	0.408066667	0.277849667
Hbb-b2	chr7:110961037-110962417	0.40788	0
Ppp1r14c	chr10:6881565-6980391	0.407661333	3.25632
Taf6l	chr19:8848843-8860907	0.4068932	0.436864333
2310043J07Rik	chr5:136533136-136540194	0.406395	13.74744
Chst7	chrX:19636695-19674646	0.406080367	0
Tlr6	chr5:65344333-65351273	0.404978	0.458119
Ddx11	chr17:66472859-66501508	0.404717833	1.501918667
Stfa3	chr16:36450622-36455478	0.404276667	0.556813333
Trpm3	chr19:22213606-23064374	0.404201	0.057797333
Hhip	chr8:82489749-82581907	0.404126933	0.014398167
Usp50	chr2:126586785-126609196	0.402991333	0.043746
A330041J22Rik	chr9:86589474-86595286	0.402576667	0.206821667
Cabp4	chr19:4135422-4139609	0.402506333	0.484274
C4bp-ps1	chr1:132566778-132578148	0.40239	1.383655667
A330049M08Rik	chr4:134925491-134954142	0.402356667	0.787573667
Gm5475	chr15:100253623-100258581	0.402028	0.544683333
Il17d	chr14:58143665-58162003	0.401596667	0
Slc30a10	chr1:187278726-187292640	0.401313033	0
1700019L03Rik	chr2:32632932-32639925	0.401232333	2.31722
Rhbdl2	chr4:123465117-123507147	0.400916667	0.657662667
Nudt17	chr3:96509814-96512483	0.400294333	23.6758
Tssk2	chr16:17898729-17900117	0.399927333	0.47187
C030039L03Rik	chr7:28459679-28491501	0.399812	0.297016333
Lypd6	chr2:49921948-50049089	0.399116667	1.896345
Gdf7	chr12:8304723-8308760	0.39892	0.50931
Pdgfb	chr15:79826305-79845238	0.3987916	7.731713333
Mmp23	chr4:155024763-155027493	0.398224	2.220093333
1700067G17Rik	chr1:90912687-90918785	0.397946667	0
Gm13285	chr4:88449157-88449706	0.3974449	0.030359267
Kif17	chr4:137818165-137857888	0.397244333	0.225317333
Dlc1	chr8:37630792-38015496	0.397099533	0.069182
Prelp	chr1:135806881-135817978	0.396823333	0.0760785
Rerg	chr6:137003345-137119017	0.396796133	0.6227963
Cacng1	chr11:107564531-107577790	0.39572	5.745033333
4632428N05Rik	chr10:59809598-59835432	0.394786167	2.327410667
Fsd2	chr7:88679239-88711867	0.39454	0
Srl	chr16:4480227-4523053	0.394519933	1.541286333
Mak	chr13:41120488-41175075	0.394098467	0.638627
Xpnp2	chrX:45461901-45490158	0.393032667	0.425040333
Lgi1	chr19:38339271-38383429	0.392756667	0.43692
AU015836	chrX:91213994-91220809	0.392106667	0
2810459M11Rik	chr1:87942437-87952031	0.391842333	0.013644467

Scube3	chr17:28279470-28308290	0.391741	0.097187
Gm8234	chr3:58455963-58457963	0.391361367	0.119136
Col23a1	chr11:51103421-51397427	0.390899	3.069999667
5330417C22Rik	chr3:108260986-108339440	0.390803333	2.04595
1700101E01Rik	chr2:28811000-28910586	0.390293333	0
Gm14685	chrX:70368406-70374599	0.390176667	2.087036893
2210404O09Rik	chr17:22016536-22046893	0.389929667	1.606117667
LOC627800	chr10:91634045-91838118	0.389346	18.10499
Casq1	chr1:174140024-174150026	0.388879633	2.74196
2010109A12Rik	chr5:93635543-93642500	0.38777	1.260363333
Olfr1393	chr11:49093651-49094587	0.387603333	1.130366333
Rras2	chr7:121190295-121261295	0.387297	3.58566
Emx1	chr6:85137924-85154457	0.387154	2.67666
1700125D06Rik	chr4:129168433-129169200	0.386944	0.177498333
Cmah	chr13:24419288-24569154	0.38626	0.338149333
Angptl3	chr4:98697645-98704879	0.3862492	0.020147067
Clstn3	chr6:124380773-124414802	0.386181667	0.697547333
Palb2	chr7:129250778-129276460	0.386080333	0.189431
Pars2	chr4:106323673-106327887	0.385655667	0.740858667
Ano8	chr8:73999917-74009966	0.385566	2.179987
Olfr706	chr7:114029378-114030329	0.385336667	0
Anks1b	chr10:89336253-90435729	0.3849345	2.344152
Vmn2r20	chr6:123335279-123368079	0.384772667	0
Gm13305	chr4:42339259-42349021	0.384343667	0.341353667
Gpr20	chr15:73525036-73537935	0.38432	0
D730048I06Rik	chr9:35595634-35597697	0.383952	0
Ren2	chr1:135247142-135256900	0.383117204	0.327631168
Cml3	chr6:85710624-85715738	0.382114367	0.522626667
Ebi3	chr17:56092045-56096445	0.381976667	2.133611
Apof	chr10:127705052-127707207	0.381646667	1.264598533
Ltb4r2	chr14:56380264-56382066	0.381543333	3.01429
Art2a-ps	chr7:108700966-108709379	0.381363333	0
4933430I17Rik	chr4:62186402-62209027	0.381345	0.106930667
Cth	chr3:157557211-157588027	0.3810926	0.421176333
Adamts9	chr6:92722692-92851435	0.380896333	0.1029661
Adamts14	chr10:60659859-60736186	0.380834333	0.339447
Chgb	chr2:132607013-132620808	0.38064	0.879064667
H1foo	chr6:115894956-115900251	0.380423333	4.5675
E130309F12Rik	chr4:49072333-49353133	0.3803039	0
Gm14308	chr2:175737074-175750551	0.380242345	0.035391517
Gm9112	chrX:99902226-99903009	0.380086667	0
F730035M05Rik	chr12:71328827-71335152	0.379853333	0
Otos	chr1:94540794-94545418	0.379836667	0.408773333
Apln	chrX:45378322-45388029	0.379632667	0.009558067
Gm6525	chr3:83978559-83979115	0.378796667	2.257426667
Tcp10b	chr17:13253976-13275092	0.378442467	2.00E-06
Fkbp1	chr17:34781827-34783272	0.377433	1.711247667
Itgax	chr7:135273081-135294171	0.3773912	0
Tmem198	chr1:75476106-75482268	0.377115667	0.560178
Wisp1	chr15:66722954-66754761	0.377023067	1.471750767
Lamp3	chr16:19653473-19706458	0.376898333	0.464254667
Gm8898	chr2:175917414-175930232	0.376486447	1.442133382

1700016G22Rik	chr13:5854754-5857338	0.376431333	0.220122
Gpr179	chr11:97193422-97213387	0.375987567	0
Dnase2a	chr8:87432522-87435360	0.375861333	0.876578
Csf1	chr3:107543965-107563387	0.375646667	0.806692667
Gm13305	chr4:42669532-42679294	0.375254333	0.344084
Ccl9	chr11:83386418-83392138	0.375191667	0.516943333
Col5a2	chr1:45431175-45560127	0.3750381	0.210819067
Fam83a	chr15:57817457-57842257	0.374337333	3.056324433
lrx1	chr13:72095679-72101171	0.37433	0
Shroom4	chrX:5977262-6210835	0.374208333	0.034603733
Htra3	chr5:35994681-36022431	0.374163667	0
Sash3	chrX:45499703-45514740	0.373655667	0.446755333
Cnr2	chr4:135451318-135476125	0.373090333	0.546840333
Olig2	chr16:91225794-91228922	0.372675667	0
Insm1	chr2:146047732-146050754	0.372563333	2.334388
Bcl6b	chr11:70037628-70043300	0.372560333	0.179138333
Ngef	chr1:89373403-89470445	0.372250667	2.020398167
Cdkn2b	chr4:88952197-88956941	0.372088	2.173346
Apol7a	chr15:77218646-77229540	0.371292333	0
Gnrh1	chr14:68363285-68367493	0.3711131	5.74688
Gucy2d	chr7:105591931-105625988	0.371039	0.053998233
4930405A21Rik	chr2:156540274-156546645	0.370592333	0.107350667
Cacna1d	chr14:30853124-31304342	0.370217	0.270413933
1110065P20Rik	chr4:124526728-124527974	0.370044334	2.83454
Nsl1	chr1:192886899-192908437	0.369818843	0.108472067
Ptpn22	chr3:103664214-103716170	0.369764667	0.40077
Gm14308	chr2:176407550-176421027	0.369250806	0.038644934
Plcd4	chr1:74589462-74612551	0.368935333	0.186966667
Galnt12	chr14:32842288-32871512	0.36873	0.35581
Gm14308	chr2:175639523-175652992	0.36872858	0.071877021
Lcn3	chr2:25621088-25623619	0.36858	0
Ptprn	chr1:75243615-75260783	0.368344567	0.478898667
Pcdhb3	chr18:37460452-37464239	0.367450333	1.041623333
Lipk	chr19:34082743-34122393	0.367168667	0.016691933
Sfxn4	chr19:60913179-60937333	0.366827667	0.82763
Tgfb2	chr1:188447064-188529871	0.365381367	4.239293333
Fam187a	chr11:102746482-102748045	0.364891333	0
Gpc2	chr5:138714887-138721165	0.364742	9.155786667
Acp5	chr9:21931170-21940190	0.36443	4.308613333
Lrtm2	chr6:119265150-119280784	0.363679	6.269393333
Tdh	chr14:64111183-64127929	0.3636	0.040263333
Gm410	chr3:57471343-57496459	0.363246667	0.126914333
Gm19757	chr6:105431259-105442662	0.36317	0.090475067
Gngt2	chr11:95703608-95707045	0.362686667	0
Tbr1	chr2:61642509-61652170	0.36265	0.460179667
Rac2	chr15:78389598-78403213	0.362580333	0.030123367
Cyp2r1	chr7:121693681-121706486	0.361852333	0.0237747
	5-Sep chrX:34451266-34529690	0.361678667	1.662094667
Ccnb2	chr9:70255495-70269361	0.361609933	1.318368333
2900057B20Rik	chr18:76251210-76258125	0.361383667	0.821125
Csf2rb	chr15:78156419-78181431	0.360994333	0.51786
Rbl1	chr2:156971629-157030270	0.3606216	2.1319

Abcc9	chr6:142536381-142650794	0.360186667	0.398601667
Pde3a	chr6:141197789-141447872	0.359886667	0
Clec4a2	chr6:123072707-123094017	0.359876667	0
Slc13a1	chr6:24038282-24118092	0.359753667	0
Map6d1	chr16:20233381-20241431	0.35933	0
Dtx4	chr19:12540825-12576486	0.359092	0.790297667
Hcrtr1	chr4:129807460-129816406	0.356723333	0
Best2	chr8:87531101-87538307	0.356196667	0
Ghrl	chr6:113666112-113669874	0.356195	0.283540667
Greb1l	chr18:10325176-10562939	0.356115	0.480001067
Fam154b	chr7:89781469-89797038	0.355723333	2.276851567
2610206C17Rik	chr7:91838149-91925059	0.355614	0.739456333
Gm13285	chr4:88434535-88435084	0.355496667	0
Gm10845	chr14:80260327-80268983	0.354889	0.220851
E330016A19Rik	chr9:78278324-78290954	0.3548078	1.001517
Vmn2r1	chr3:63885563-63909380	0.354733333	0.011104033
9930023K05Rik	chr19:56536126-56561219	0.354365	2.373054
Ncs1	chr2:31101442-31150991	0.354189333	6.87166
4930471M09Rik	chr6:91380453-91390848	0.354179667	0.467103333
Klhdc8b	chr9:108349969-108363912	0.354163767	4.982916667
9030204H09Rik	chr2:35674709-35678905	0.352996667	0
Amhr2	chr15:102275797-102285070	0.351332333	0.251765667
Rab32	chr10:10264836-10278005	0.351011333	5.13231
Gipc3	chr10:80800506-80806011	0.350766667	0
Il22ra1	chr4:135284073-135311298	0.349912667	1.312890667
Elfn1	chr5:140383896-140450678	0.349548667	0.061989
Col4a6	chrX:137599945-137908619	0.349536667	0.346002433
Sytl4	chrX:130470923-130516322	0.3491427	2.672373333
4933417G07Rik	chr3:55651026-55651987	0.34886	0.44885
Kcnab1	chr3:64913564-65182141	0.348209333	0.1757544
Scn1a	chr2:66108838-66278894	0.348198	0.1056932
Scn3b	chr9:40076800-40099203	0.347013633	0.984631667
Olfml2b	chr1:172574662-172612920	0.347007967	2.891998667
Gjb4	chr4:127028329-127031325	0.3468118	2.027516667
Pla2g4f	chr2:120125692-120139901	0.346391333	4.277633333
Adcy8	chr15:64530596-64753858	0.3462	0.270475167
Xlr4c	chrX:70479414-70488469	0.3459382	0.126080333
Krtap5-2	chr7:149360436-149361910	0.345396667	0
Adamts5	chr16:85858401-85901370	0.345319267	3.643263333
Tmem82	chr4:141170147-141174548	0.345257667	1.176794667
Fam71d	chr12:79792521-79835506	0.344353333	0.114423333
Btnl2	chr17:34491766-34506437	0.343555933	0
Zbtb8b	chr4:129103008-129118062	0.343157933	2.504086667
Tmem151b	chr17:45678888-45686626	0.342653333	0.023130267
Dse	chr10:33871198-33927357	0.342390667	0.6730649
Lrfn2	chr17:49071906-49236915	0.3422181	0.6442545
Pvrl3	chr16:46394970-46497080	0.341483333	0.177351333
3830431G21Rik	chr12:81793587-81825203	0.341396333	0.5109266
4930413G21Rik	chr7:130112571-130113973	0.340936667	0.103571667
Fkbp1b	chr12:4839979-4848401	0.34025	2.647096667
5730507C01Rik	chr12:18521315-18542060	0.340122	0.305680667
Gpr30	chr5:139899132-139903754	0.3399	0

Slc4a5	chr6:83187368-83254939	0.338305933	0.198501333
Naalad2	chr9:18127464-18190372	0.338124667	0.054254667
Cenpk	chr13:105019034-105039697	0.338113	0.299105667
Ccdc67	chr9:15364307-15432377	0.337508267	2.633596667
Ankrd61	chr5:144651611-144655936	0.337250833	1.620204333
Pdcl2	chr5:76741170-76760136	0.336976667	0.037095333
Ccdc151	chr9:21794314-21807078	0.336589333	0.907543467
Pxmp2	chr5:110703304-110715187	0.336498	0
Ly6c1	chr15:74874447-74879267	0.336233	2.804446667
Prr9	chr3:91926125-91927869	0.335346667	1.440283333
Gm20571	chr2:144194718-144199073	0.33507	0
Ankrd29	chr18:12410865-12464229	0.334676667	0.637845
Olfr68	chr7:110925909-110926857	0.334396667	0
Fcgr2b	chr1:172890688-172906202	0.334209667	0.214704667
2810429I04Rik	chr13:3477548-3491644	0.33365	0
Prrx1	chr1:165175249-165243781	0.333590333	0.058983333
Cmtm2b	chr8:106846136-106854656	0.333346667	0
4930558K02Rik	chr1:163872219-163909767	0.332778333	0.055295333
Ces2e	chr8:107450159-107458572	0.331508667	0.023687833
Gm2027	chr12:45322342-45325367	0.331324333	0.169587667
D6Erttd527e	chr6:87054739-87062997	0.331176667	0
9130206I24Rik	chr4:114581893-114593723	0.330905367	2.461365733
4930555G01Rik	chr14:5153653-5162268	0.330803667	0.188086733
Gm10584	chr7:139507346-139509974	0.330748667	1.128777667
Ramp2	chr11:101107647-101109564	0.330629	0
Fsbp	chr4:11506808-11514949	0.330492203	1.196610048
9230110F15Rik	chr9:35645913-35651735	0.330417	0
Vsig2	chr9:37346839-37351790	0.329968267	0.766503333
Phkg1	chr5:130339310-130354954	0.329500333	0.228508
Gm13285	chr4:88422825-88423374	0.328612467	0.0170538
Prss46	chr9:110747009-110759026	0.328449667	0
Nxn12	chr13:51266393-51270556	0.328052333	4.166206333
Wee2	chr6:40392861-40416814	0.327252333	0
A930038C07Rik	chr6:65621604-65656924	0.326976667	1.398346667
Myo15	chr11:60282840-60341870	0.326803	0.034945567
Akr1c21	chr13:4573320-4585789	0.326615333	0
D830013O20Rik	chr12:74465061-74510550	0.32645	1.475536667
Gm14308	chr2:175247800-175261277	0.326028333	0.109228
Mgl2	chr11:69943858-69951044	0.325802333	0
2210010C17Rik	chr7:20522653-20536092	0.325074	0.35936
Ccnb1	chr13:101548693-101556441	0.324908633	1.35342
Scml2	chrX:157600703-157696145	0.324415183	1.86308
Ttll8	chr15:88744327-88784848	0.324334	0
Kcnu1	chr8:26960094-27048406	0.324105667	0.521646833
Spag6	chr16:16753108-16829456	0.3234525	0.7866806
4930526L06Rik	chr19:11271306-11374374	0.323440333	0
Gm17821	chr12:68757728-68770258	0.323268233	0.0899664
Gpr27	chr6:99642672-99643812	0.323227333	0.402856667
Ppp4r4	chr12:104770774-104852042	0.323213667	1.998123333
F630110N24Rik	chr10:80820314-80826780	0.322946	3.05034
Gm5771	chr6:41342354-41347255	0.3228986	0
Gpr85	chr6:13785073-13789848	0.3228323	5.67511

Tnfsf13b	chr8:10006632-10035999	0.322729333	0.251472067
Acot12	chr13:91881125-91925753	0.3226141	0
Brip1	chr11:85871637-86014695	0.3225448	0.133489733
Kbtbd11	chr8:15011024-15033332	0.3221411	0.595519667
Tsks	chr7:52198609-52213405	0.3211112	0.520696667
Ncapg	chr5:46061163-46091786	0.320975333	0.474626667
Csl	chr10:99220338-99222292	0.320772	0.27727
Snurf	chr7:67127386-67150042	0.320602667	0.258268667
4933417D19Rik	chr8:125758990-125766259	0.320517333	0.52827
3110047P20Rik	chr5:64040341-64201782	0.320369667	0.0169687
Pcdhb9	chr18:37560508-37563563	0.319492033	3.30644
Limk1	chr5:135131908-135164460	0.319338633	3.24949
Slc16a1	chr3:104442590-104462385	0.31904	2.4004
Tmod1	chr4:46052093-46128904	0.318951333	0.452797667
St8sia5	chr18:77424585-77494189	0.318769033	8.168486667
Erbp4	chr1:68086539-69154633	0.3186023	0
Xlr3b	chrX:70437517-70448269	0.318119633	1.84919
Gm13889	chr2:93795966-93797257	0.3181116	0
Gm14482	chrX:10895381-10895890	0.318038489	3.61E-06
Bpifb9a	chr2:154083614-154096979	0.317920333	0.064491
Ptp4a3	chr15:73553574-73589196	0.317897333	1.557173
Arxes1	chrX:132567905-132569485	0.317566333	3.093905967
Slc41a2	chr10:82693883-82800562	0.317449	0.869204333
P2ry12	chr3:59020192-59066753	0.317245	0.80011
4930513N10Rik	chr8:98330729-98345628	0.317217233	0.318231667
Dnase1l2	chr17:24577712-24580046	0.316788	11.4939
Ccnjl	chr11:43342285-43400499	0.316299333	3.490347667
Klrg2	chr6:38576659-38587239	0.316284333	4.270724
Pole	chr5:110715337-110766472	0.316206833	0.275420333
Mip	chr10:127662893-127668867	0.316171667	0
Fancb	chrX:161418523-161435204	0.315671333	0.872577
Lca5l	chr16:96380012-96413864	0.315634133	0.014379767
Gm5414	chr15:101454458-101458619	0.315502667	0.286618333
Ptprz1	chr6:22825501-23002916	0.315267333	2.984392
Poc1a	chr9:106183391-106252222	0.3152636	3.120361667
Tex15	chr8:34681015-34696057	0.3151407	0.475913667
Gm9992	chr17:7568060-7589654	0.314578033	0.157244667
Brf2	chr8:28234303-28239104	0.312921667	0.424885967
Gm14482	chrX:10898548-10899057	0.312383071	3.24E-06
D330022K07Rik	chr8:46808678-46904651	0.312178667	0.62115
4933406I18Rik	chr7:121458992-121558675	0.311495333	0
Loxl2	chr14:70009282-70095641	0.311461333	0.351969667
Fndc5	chr4:128814303-128821837	0.310909	0.056344667
4930405A10Rik	chr14:23326395-23362020	0.310824667	2.812169667
Rgs7bp	chr13:105737232-105845010	0.310783	0
Hrasls5	chr19:7687058-7713728	0.310681333	0.235762333
Ror1	chr4:99768395-100115150	0.310527667	0.060570333
Ccdc108	chr1:74948653-74982173	0.310433	3.7421546
Npas3	chr12:54349663-55173162	0.310109667	0
9330159F19Rik	chr10:28931448-28950585	0.309902067	0.020669967
Sdr16c5	chr4:3923088-3946810	0.309841333	5.247453333
D130043K22Rik	chr13:24936999-24993139	0.309780667	2.867126667

Col11a2	chr17:34176381-34203187	0.309146	0.244398033
Daf2	chr1:132285104-132319576	0.308689667	0.797655333
Gm10512	chr17:13397907-13399077	0.308444133	0
Gm6772	chr12:88075318-88104745	0.308058233	0.918710333
2010107G12Rik	chr6:34895294-34927999	0.307922	5.281876667
Mogat2	chr7:106367593-106387121	0.307436667	0.082590033
Klh123	chr2:69660426-69674708	0.307046667	1.00326
Gm13285	chr4:88452089-88452638	0.306848333	0.002601461
Cntnap5a	chr1:117581713-118477251	0.306321333	0.011488033
Stx2	chr5:129490435-129514439	0.3059455	2.05763
A630023A22Rik	chr14:34864315-34915940	0.305942667	0
S1pr5	chr9:21047360-21052887	0.303933	7.59548
4930474M22Rik	chr17:14526113-14535949	0.303764333	0
Tgfbr3	chr5:107535588-107718614	0.303179933	3.852436667
Matn4	chr2:164215128-164230660	0.302870333	0
Gm13275	chr4:88439645-88441201	0.3025465	0.363525433
Kcnj10	chr1:174271340-174304216	0.302467333	0.038832667
Galr3	chr15:78872314-78873988	0.301903667	1.467457
Gm5441	chr12:118472993-118575485	0.301771333	0
Efnb3	chr11:69367593-69373739	0.301700267	0.983862667
Gm13305	chr4:42029564-42039326	0.301602333	0.351753333
Tex21	chr12:77299676-77347733	0.301440333	0
Dock2	chr11:34126863-34597325	0.301056967	0.40931
Dlx4	chr11:95001760-95007115	0.3008315	3.787443333
Fam19a1	chr6:96063147-96607192	0.300437	0.387713333
4921507P07Rik	chr6:50523302-50546589	0.300334	0.013221633
Ssxb9	chrX:7944103-7952514	0.300237767	0.038303
Pnpla1	chr17:28995355-29027253	0.300195567	1.542579667
LOC319574	chr8:124969167-124975222	0.300019667	0.306421333
4933430H15Rik	chr3:87540844-87552545	0.300005	1.758213333
Fancd2	chr6:113481675-113546279	0.299394	0.633661
Anubl1	chr6:116214252-116279644	0.299323667	0.833413333
Tle1	chr4:71778175-71861953	0.298693	4.57479
Spaca5	chrX:20645531-20655089	0.298054333	0.065348
4933408N05Rik	chr8:116865060-116875378	0.297248333	0.695986667
Ccdc142	chr6:83051509-83059115	0.297238667	0.700492767
Lpar4	chrX:104115963-104129238	0.297166033	0
BC024139	chr15:75949947-75956986	0.297113	0.150957667
Gnmt	chr17:46862612-46866114	0.296636667	0.649273333
Slc35f2	chr9:53619341-53665968	0.296203333	0.310559433
Abcb1b	chr5:8798146-8866314	0.295746333	0.286436667
Zfp583	chr7:6267266-6282036	0.295437	2.09216
A930005I04Rik	chr5:35258563-35266488	0.2952209	1.661766
Gem	chr4:11631593-11642140	0.2947815	0.492996667
Nudt11	chrX:5624624-5631869	0.294761333	0.972766
1700013G23Rik	chr11:59760393-59761649	0.294212	0
Fjx1	chr2:102289522-102291949	0.2940577	5.075963
Bpifb1	chr2:154016553-154046079	0.293595	0
Gm13285	chr4:88419897-88420446	0.293259467	0.023473533
Cyp1a2	chr9:57524743-57531462	0.292653433	0
Asb5	chr8:55635683-55673189	0.292122667	0
Gm872	chr10:92259501-92299091	0.291866333	0.1301276

Ptprq	chr10:106954415-107157083	0.291471333	0.352283333
Gm4477	chr6:85657166-85657852	0.291378867	0
Pecam1	chr11:106515531-106576595	0.291358667	0
Gm10782	chr13:56464260-56470218	0.291278667	0
Ccdc154	chr17:25299405-25308858	0.291075833	0.720115
4930528A17Rik	chr4:21773473-21775595	0.291068667	0.194557
2410018L13Rik	chr12:22990696-23046943	0.290735	0.199810667
Pard3b	chr1:61685397-62688858	0.290333333	0.83189
Gm15401	chr6:72579281-72587711	0.290305333	0.899073333
Prrx2	chr2:30700886-30736767	0.289949667	0.952543333
Alb	chr5:90889914-90905629	0.289902333	0
BC055324	chr1:165884138-165924912	0.289888	0.910618333
Cyp4f41-ps	chr17:33087905-33102661	0.289796	0
Myo1g	chr11:6406550-6420961	0.289666333	0.0181346
4930546C10Rik	chr18:69049140-69111182	0.289624333	0
Gm9999	chr7:54232001-54243173	0.289557667	0.251742333
Dhtkd1	chr2:5819105-5863838	0.289411667	0
Wfikkn1	chr17:26014572-26017803	0.288844267	1.546427667
Sucnr1	chr3:59885790-59891488	0.288696667	1.104823333
Gmpr	chr13:45602837-45641750	0.2883339	1.860783667
Jak3	chr8:74200281-74214476	0.288249	0.63419
Gm3434	chr9:35941871-35943215	0.288157	0
Kif4	chrX:97821403-97922610	0.288118133	0.315476333
E530011L22Rik	chr9:121665757-121669061	0.287724	3.816563333
Cd300lg	chr11:101902824-101916931	0.287552333	0.079636333
1700016K19Rik	chr11:75813413-75817071	0.286859667	21.0586
Arhgef6	chrX:54484661-54591906	0.286809667	0.450936667
1700054A03Rik	chr19:53150741-53158882	0.286288	0.049288667
Ccbe1	chr18:66216509-66451492	0.2862269	0.288994867
Spon1	chr7:120909511-121186889	0.286175667	0.786641667
Dact3	chr7:17460665-17472650	0.286061667	0.205577667
Ranbp3l	chr15:8918118-8997082	0.285870333	0.043682333
Tnfrsf11a	chr1:107677299-107744558	0.285788333	0.724566333
Gins1	chr2:150735329-150757016	0.285193333	1.688963333
Plxnc1	chr10:94253611-94407212	0.284997	0.156815667
Apc2	chr10:79764564-79781001	0.284957	0.536185667
4931403G20Rik	chr12:70944672-70954658	0.284852	1.932866667
Lsm11	chr11:45741770-45758437	0.284584133	1.984961
A430107O13Rik	chr6:21935909-22205606	0.284155667	0
2310050B05Rik	chr10:80657435-80671115	0.283933667	0
Ceacam10	chr7:25562222-25569674	0.283553333	5.644442667
Klhl38	chr15:58146127-58155724	0.283467667	0.05611
Hic1	chr11:74978066-74983757	0.283416	0
Ramp3	chr11:6558535-6577478	0.282395	0
9430037G07Rik	chr9:88490162-88494081	0.282369833	0.060532867
Raver1-fdx1l	chr9:20871957-20896452	0.282313267	1.590065333
C2cd4a	chr9:67678338-67680137	0.282083	0.171892767
Gsdmcl1	chr15:63678863-63682497	0.2820746	0
Atp2a1	chr7:133589373-133606587	0.281075433	0.407158667
Tbxa2r	chr10:80791475-80797917	0.280987333	0
Cacna1s	chr1:137949477-138016399	0.2809412	0
Syt12	chr19:4445907-4477143	0.280748107	0.039586333

Gm10345	chr15:76124863-76127326	0.280691033	0.187701333
Fmo1	chr1:164759691-164796679	0.280668	3.563758333
Klk8	chr7:51052946-51059192	0.280651333	4.813895333
Chst1	chr2:92439863-92455409	0.280575	0
Fam19a5	chr15:87374728-87589794	0.2804313	0.769541
Fbln2	chr6:91162757-91222534	0.280379633	0.221481333
2010106C02Rik	chr17:86684506-86686518	0.279869667	0.454441
Brca2	chr5:151325197-151372324	0.2797493	1.2468532
Gm13276	chr4:88430957-88432419	0.2794769	0.311787333
Gm5151	chr4:155108912-155114673	0.279343667	0.072139333
Ptchd2	chr4:147610965-147662074	0.278914333	0
Fam195a	chr17:26000642-26005683	0.278762333	0.347920333
Cldn22	chr8:48909835-48910829	0.278475667	0
Slfn10-ps	chr11:82841629-82854035	0.278465267	0
Vmn2r24	chr6:123728988-123766298	0.278194667	0
Gm1078	chr7:4916861-4922563	0.278185433	0.131197433
1700001J11Rik	chr9:39858142-39860610	0.278055	0.0994298
Ldhc	chr7:54116632-54133512	0.277835333	0.153200333
Gm6498	chr14:48818390-48848088	0.276920633	2.018402667
Wdr27	chr17:14955678-15080129	0.276542	0.7822
Elmod1	chr9:53759266-53823108	0.276322667	0.590110333
Dlgap1	chr17:70774131-71170753	0.276296667	1.318072667
P4ha3	chr7:107434029-107468209	0.276100333	0.606870867
Rcvrn	chr11:67508827-67516857	0.276064	0
Gli3	chr13:15555555-15821858	0.2759949	3.511246333
Cck	chr9:121398941-121404807	0.275273333	0
9230112D13Rik	chr14:35324806-35335987	0.275269333	0
E2f7	chr10:110182520-110224440	0.274589	0.322691767
Pln	chr10:53057491-53065805	0.274520333	0.0156967
Tigit	chr16:43648973-43664297	0.274429667	1.959094333
Cep55	chr19:38129514-38148915	0.273898667	1.704855
Slc40a1	chr1:45964914-45982439	0.273701	0.84888
Htr4	chr18:62483857-62627456	0.273499867	1.285836667
Pus7l	chr15:94353070-94373938	0.273202533	0.504418333
1700030C10Rik	chr12:20810252-20821640	0.272983833	0.3169733
Fam71f1	chr6:29269139-29286022	0.272419333	0
F7	chr8:13026033-13035809	0.272037333	1.362743633
0610010B08Rik	chr2:174952492-175261278	0.271835277	0.041368812
Mum1l1	chrX:135744582-135772874	0.271597667	0.060971667
H2-T10	chr17:36252815-36258389	0.271181333	0.992140667
Gm6981	chr9:51810165-51856810	0.2710665	1.662391667
Ccdc18	chr5:108561932-108661968	0.271039	1.447171667
Arhgef10l	chr4:140070399-140221820	0.270768633	0.741413
Il34	chr8:113265728-113329803	0.2701748	5.52068
4930404N11Rik	chr10:80826768-80828565	0.270161667	0.509305
Bcl2a1d	chr9:88618125-88626688	0.270144333	0
C78339	chr13:46764890-46771142	0.269728667	1.589567
Gpr35	chr1:94869695-94882968	0.2697026	0.69692
Gpr114	chr8:97447593-97467190	0.269616	0
Il1f8	chr2:24008691-24015623	0.269571	0.641804333
Myt1l	chr12:30213248-30608074	0.269356967	1.828097
Alpk3	chr7:88202485-88250498	0.269308667	0.540653333

Acbd7	chr2:3253439-3258269	0.268864667	0.517953333
Svep1	chr4:58055667-58219468	0.2685603	0
Slco1a5	chr6:142182749-142271470	0.268531667	2.9201841
AA543186	chr2:25182969-25188091	0.2680317	1.308273
4933417A18Rik	chr13:35016277-35045065	0.267663667	0
Fitm1	chr14:56194510-56195789	0.267241	0
Myoz3	chr18:60733370-60751370	0.267038367	1.159125767
Fbxo17	chr7:29501808-29523159	0.266711	0.382956667
E530001F21Rik	chrX:102359716-102360844	0.266583333	1.612633333
4930404H21Rik	chr7:140778706-140793798	0.266103333	0.039846
Egfl8	chr17:34750294-34752916	0.265287	3.470306667
9630013A20Rik	chr14:84858644-84876231	0.265092	0
Angpt2	chr8:18691336-18741551	0.26482	1.3285664
Slamf9	chr1:174405490-174408540	0.264615333	0
Gm13275	chr4:88445478-88447034	0.264559067	0.352735667
Oip5	chr2:119435267-119444241	0.264484233	1.157574333
4930488L21Rik	chr8:96335593-96337455	0.264258667	3.7878
A730085K08Rik	chr9:122291139-122307919	0.263605667	0.709642
Krt9	chr11:100048094-100054560	0.263321333	0.0898
Spats1	chr17:45585885-45611887	0.263271	0.897412333
Slc45a1	chr4:150003504-150026283	0.263007667	2.963038333
Krt27	chr11:99206879-99212408	0.262799667	0.637705667
Cyp2j8	chr4:96111278-96174077	0.262492667	0.097488667
4930592I03Rik	chr18:83087796-83089952	0.262483	2.588256667
4933408B17Rik	chr18:34739499-34757122	0.262370667	0.349193
Ccr1	chr9:123876958-123883525	0.26236	0
Mcoln2	chr3:145812796-145858476	0.261692433	0
Trim30d	chr7:111618528-111656363	0.261676333	0.060021967
U90926	chr5:92638920-92644434	0.261636	0
Cda	chr4:137894442-137923870	0.261015667	1.819352333
Gbp9	chr5:105507412-105539311	0.260698333	0.116474333
Nhedc1	chr3:135011000-135060791	0.260507	0.013799967
Fcamr	chr1:132697478-132711317	0.260366667	0.258005333
Gm18756	chr7:15116002-15208415	0.260005667	0.665047333
Cecr2	chr6:120616438-120721209	0.2596871	2.324239333
Cd93	chr2:148262386-148269271	0.2596258	0.061724833
Slc26a9	chr1:133640598-133666982	0.259603733	4.026956667
4930583K01Rik	chr7:125387420-125389065	0.259542333	3.723233
Slnf14-ps	chr11:83088613-83100228	0.25942	0
Unc13c	chr9:73327230-73781374	0.259288333	0
1700120G07Rik	chr7:142383447-142387685	0.259157	0
4930579G24Rik	chr3:79433000-79436741	0.259148043	1.441774667
9530059O14Rik	chr9:122481618-122489765	0.2590525	1.010933333
2810403D21Rik	chrX:106029816-106082235	0.259024667	0.360323
Fam194a	chr3:58420221-58441129	0.258924367	0.288092
2610203C20Rik	chr9:41389421-41400570	0.258309333	1.466643333
Adam11	chr11:102622752-102641576	0.257754333	0.888445333
Podxl	chr6:31469492-31513937	0.257723967	3.521063
Gm221	chr10:5785429-5836669	0.257665	0.88481
Rnft2	chr5:118640744-118695034	0.256989333	5.396086667
Plk1	chr7:129302950-129313389	0.256442633	1.258593333
Rab20	chr8:11453976-11478499	0.255905667	0.186339667

Gast	chr11:100195725-100198310	0.255462333	0
Sdr16c6	chr4:3983812-4004661	0.255064	3.843956333
Nrg1	chr8:32928499-33028675	0.254997767	2.475233333
4930467E23Rik	chr8:19729575-19753602	0.254888333	0.236700333
Gm3448	chr17:15132746-15147148	0.254877667	0.498742335
1700123I01Rik	chr19:6184409-6224219	0.253924933	0.196001333
Tmie	chr9:110768549-110782587	0.253289	0.449666767
Glyctk	chr9:106055190-106060469	0.253193333	0.1971409
Efna3	chr3:89118872-89126801	0.253134667	2.10276
Scarf2	chr16:17797374-17808380	0.252717	0.010878733
Tspan11	chr6:127837639-127903049	0.2524856	0.201867667
Fn1	chr1:71632096-71699745	0.2521436	0.037362667
Myh6	chr14:55560757-55585444	0.252090667	0.103238533
Gdpd3	chr7:133909927-133919159	0.251933	1.148265667
Kcnj14	chr7:53071836-53080117	0.251601	0
Gm5465	chr14:79851641-79854623	0.251563	0.655196667
Vmn2r113	chr17:23080150-23095781	0.251539	0
Rasl10a	chr11:4958130-4960386	0.251146333	1.123366667
Trpm1	chr7:71298720-71414645	0.251018867	0.330129433
Cxcr5	chr9:44319869-44334504	0.250895667	0.011676633
Clrn1	chr3:58649136-58689134	0.250740333	0
Dna2	chr10:62409776-62436936	0.250709667	0.330116
Spaca4	chr7:52980476-52981186	0.250184	0
Kif11	chr19:37450892-37496349	0.250054467	3.864603333
Cyp17a1	chr19:46741654-46747490	0.250036333	0
Lrrc8c	chr5:105948489-106037973	0.250013667	1.438805667
Brc1	chr11:101350077-101413269	0.249629033	2.134763
Slc6a1	chr6:114232628-114267519	0.249547667	0
E130215H24Rik	chr2:150493229-150494668	0.249494667	0
Lrrc16b	chr14:56109929-56127101	0.248934333	1.991406667
Tfap2e	chr4:126393246-126413513	0.248793667	0.047092667
Entpd8	chr2:24935842-24941239	0.2483813	0.173864
Igfbp7	chr5:77778264-77837070	0.247316	7.327763333
Iqcd	chr5:121039031-121057122	0.247180967	0.577667
Lrrn1	chr6:107479719-107520222	0.246801333	0.2717403
Pappa2	chr1:160641861-160887569	0.2463	0
Gpr52	chr1:162506798-162507884	0.245936667	0
Gm13286	chr4:88403747-88404296	0.245627667	0.008290667
Lingo4	chr3:94203140-94208423	0.245038333	0.082200667
Slfn2	chr11:82878613-82884180	0.245016567	0
Gm13285	chr4:88437453-88438002	0.2448428	0.025452533
Fmo9	chr1:168592185-168611976	0.244634333	0.242683333
Gatm	chr2:122420208-122437013	0.243988	0
Shcbp1	chr8:4735979-4779534	0.243949333	0.245030333
Ssxb1	chrX:7990430-7999283	0.243289667	0.059761667
Fam169a	chr13:97837241-97899477	0.243028333	0.820097333
Tmem132b	chr5:126012787-126272953	0.242908667	0
Gm4980	chr7:106772576-106775613	0.2426727	0.083290333
Gm128	chr3:95040841-95045031	0.242545333	1.051810667
Vipr1	chr9:121551833-121582072	0.241877933	1.353161267
Evc2	chr5:37729716-37816293	0.241794	0.8547715
1700090G07Rik	chr17:87316687-87321707	0.241732667	0

Nlrp1a	chr11:70904698-70958206	0.240835233	0.016579267
Olfrc692	chr7:112516841-112517831	0.240505667	0
Hmga2	chr10:119798330-119913991	0.240259067	0.059444633
Htra1	chr7:138079716-138129172	0.240054033	0.445283333
Rufy4	chr1:74172114-74194804	0.239672	0
Slc29a1	chr17:45722148-45736552	0.239641667	0.808815
Fam105a	chr15:27584825-27611297	0.239262667	0.715766333
Gbp2	chr3:142283626-142300972	0.239095667	0.0274926
4933401P06Rik	chr5:37264833-37268118	0.238568333	0.591966667
LOC545691	chr4:141538906-141542712	0.238365667	0.035692667
Pag1	chr3:9687481-9833679	0.2381667	1.586375867
Pcdhb1	chr18:37424651-37427108	0.2378414	0.151546333
Itgb8	chr12:120401275-120476749	0.237710967	2.107647033
Apol9b	chr15:77559501-77566812	0.237696667	0.535386333
Tacr1	chr6:82352468-82510098	0.237327	0.174604333
Raet1c	chr10:21893707-22093945	0.237215612	0
Plac8l1	chr18:42338328-42356363	0.236921667	0
Gm13807	chr2:93243703-93257987	0.236798667	0.378205333
Ctf2	chr7:134862473-134869130	0.236475333	0.081425
Iqch	chr9:63269427-63450255	0.236293267	0.143253433
Eln	chr5:135178465-135223124	0.236072333	3.327583333
Peg3	chr7:6658670-6683130	0.235892267	6.650813333
Epha8	chr4:136485333-136512731	0.235875	0
Sifn9	chr11:82793804-82805332	0.2356	0.323395
Itln1	chr1:173448254-173465425	0.235571	4.8376
Lpar3	chr3:145883924-145949178	0.235012333	0.373591333
Peg12	chr7:69606756-69609396	0.234936667	0
Gpm6a	chr8:55864786-56146231	0.234744033	4.242373333
B930007M17Rik	chr3:138868856-139373263	0.234535667	0
Accn3	chr5:23919268-23923652	0.234311333	0.064858667
Icam2	chr11:106238969-106243955	0.234239	2.25967
4930519F09Rik	chr10:28641768-28643313	0.233707667	0.170967167
Cd8a	chr6:71323420-71329165	0.232950333	0.520375133
A530032D15Rik	chr1:85084713-85106428	0.232397867	0.706441
Pcdha7	chr18:37133577-37347311	0.232388345	2.65E-08
P2rx1	chr11:72812646-72828699	0.232381667	0.898702167
Tdrd1	chr19:56900698-56944502	0.232189667	1.009939633
Igfbp4	chr11:98902573-98913957	0.232110333	3.158083333
4933401H06Rik	chr3:135496657-135503233	0.232095333	1.114502667
BC055111	chr4:106263513-106289843	0.231706667	1.434546667
Kctd19	chr8:107906711-107937387	0.231526	0
Gm17359	chr3:79149297-79268050	0.231068333	0
BC048546	chr6:128489839-128531624	0.230661133	2.828073333
Slc4a4	chr5:89316284-89668681	0.230630667	1.272713667
C230035I16Rik	chr13:23519844-23522886	0.230547667	4.2375
Gm14308	chr2:175150243-175163712	0.230469325	1.34E-05
Slc19a3	chr1:83009097-83035023	0.230266	2.413159833
Celf3	chr3:94282752-94296115	0.230113333	4.19541
Acox2	chr14:9058024-9091533	0.230078467	2.35316
Aldh1b1	chr4:45811893-45817480	0.230047967	0.464234
Prss22	chr17:24130500-24135067	0.229826	0.025212433
Gng2	chr14:20691780-20796471	0.229523667	0.583113333

1700048M11Rik	chr16:92308960-92312711	0.22923	2.016503333
Fam189a2	chr19:24047239-24105509	0.229122433	0.300282
Sybu	chr15:44503402-44619609	0.2290775	0.335353
Igfn1	chr1:137850154-137902919	0.229057067	0.053595
Dll4	chr2:119151519-119161402	0.228964	4.325273333
Bnc1	chr7:89111547-89137185	0.228879867	0.107598333
Gm7609	chr1:85196185-85210337	0.228475333	0.765474333
Chga	chr12:103793178-103803237	0.228110333	1.011119633
Fut10	chr8:32297803-32371955	0.227154333	0.585433333
Fam57b	chr7:133960398-133973733	0.226940333	0
Cfc1	chr1:34592492-34601156	0.226558	8.914223333
Col18a1	chr10:76514923-76629275	0.226370667	1.156010333
Bfsp2	chr9:103327253-103382658	0.226263	3.23E-06
Oog1	chr12:88943637-88949795	0.226055667	0.714925
Slc16a9	chr10:69708023-69748699	0.225974867	1.043815667
Muc19	chr15:91668756-91764986	0.2258613	0.015126933
Mamdc4	chr2:25418634-25426836	0.225726667	2.978156667
Gm11648	chr11:103206066-103211440	0.225670667	1.231924
Dnahc10	chr5:125205454-125314678	0.22510864	0.963645333
Neb	chr2:51992166-52194318	0.225038867	0.516934333
Olfr1006	chr2:85514367-85518898	0.224788667	0
Il17re	chr6:113408477-113420745	0.224432667	1.865380333
Masp2	chr4:147976652-147989589	0.224396	0.285383667
Ern2	chr7:129313406-129329730	0.224300667	0.865007833
Glt8d2	chr10:82113177-82153395	0.224116	0.266713233
Celf5	chr10:80921972-80945454	0.2236754	7.98996
Cubn	chr2:13197964-13413503	0.223380633	0.015157533
Gm9705	chr17:32758263-32773129	0.223374033	0.062251833
Spnb4	chr7:28141401-28231608	0.223343833	0.080944833
Tmem130	chr5:145496783-145522447	0.222908667	0.560342
Aknad1	chr3:108542575-108585227	0.222730233	0.228893733
Cxcl12	chr6:117118552-117131386	0.222117333	0
Gk2	chr5:97884179-97886027	0.221767933	0.301392
Abca6	chr11:110038135-110113090	0.221661	0.109316333
Cpt1b	chr15:89246835-89256293	0.221660333	0.410810513
Stxbp6	chr12:45953472-46175470	0.221579	0.287515
Muc5b	chr7:149024976-149058990	0.221065133	4.134814667
Olfr881	chr9:37800076-37801024	0.219871333	0
Tnfsf15	chr4:63385636-63406147	0.21969	0
Pth1r	chr9:110624588-110649649	0.219651667	0.6437537
Slc1a1	chr19:28909655-28988450	0.219533333	0.032111033
2810055G20Rik	chr16:77329572-77558673	0.219520333	2.287426633
Ect2l	chr10:17848827-17930696	0.2195037	0.534524667
Rnd1	chr15:98499635-98507892	0.219037	0.524148567
Aplnr	chr2:84976516-84980080	0.218838	0
Rasd1	chr11:59776684-59778444	0.218754333	1.3282961
Ces1c	chr8:95622914-95655182	0.2185132	0.13618
Crb1	chr1:141094830-141273653	0.218217333	0.916589333
Klhl10	chr11:100303237-100318338	0.218031667	0.345777
Gm8179	chr8:33262366-33292319	0.217818333	0.200178
Pbld1	chr10:62524364-62540284	0.217677633	0.107726567
Higd1c	chr15:100195015-100214386	0.216819	0

Gpx8	chr13:113832970-113836596	0.216697333	0.85673
Tmem171	chr13:99456192-99464786	0.215803333	0.035603333
Unc93a	chr17:13301482-13324657	0.215711333	0.064623867
Zfp957	chr14:79612161-79647174	0.215550667	0.026476033
Amz1	chr5:141200080-141229266	0.215276333	0.054364333
Gnb1l	chr16:18498860-18566772	0.2148169	0.230990667
D730039F16Rik	chr2:34729955-34747653	0.214683	0.944186667
Dtl	chr1:193361243-193399413	0.214504	1.206358733
Prok1	chr3:107038448-107042625	0.214268	0
Dok7	chr5:35399732-35430480	0.214100667	1.331053333
Ddr2	chr1:171902437-172019075	0.214058267	0
Abcg5	chr17:85057573-85082263	0.213858033	0
Gabrr2	chr4:33150086-33182840	0.213571	0
Nup210l	chr3:89908053-90015939	0.213247667	0.632716
Arap3	chr18:38132276-38158623	0.2125205	0
Foxj1	chr11:116192017-116196668	0.212486633	5.766301933
Pde4a	chr9:20970157-21017692	0.212023667	0.635618767
Gm8787	chrX:76575851-76603407	0.211941333	0.90447
Gm14308	chr2:176266769-176280240	0.211733193	1.27E-05
Ccnf	chr17:24360176-24388354	0.211720667	0.344052767
Ampd1	chr3:102877936-102903643	0.210819333	0.415723667
Ccna1	chr3:54849390-54858977	0.210529667	8.783966667
Fbxl13	chr5:20989664-21151423	0.210124667	0
4930443O20Rik	chr2:84913770-84926618	0.210118033	0.49113
Slc37a2	chr9:37036733-37063323	0.209911	0.51826
Acsm4	chr7:126833539-126858080	0.209879667	0
Lrwd1	chr5:136598935-136611944	0.209479667	5.922273333
Depdc1a	chr3:159158396-159192919	0.209292667	0.539172333
Ugt1a5	chr1:90062586-90116577	0.209275431	0.323964
Fam38b	chr18:63169866-63546837	0.209176233	0.341843333
Mtl5	chr19:3388868-3407785	0.209165667	0.1843747
Tm4sf19	chr16:32400591-32408313	0.209013333	0
Lrrn3	chr12:42178254-42212338	0.208498667	3.295096667
2010109I03Rik	chr15:74708765-74712134	0.208254667	3.340622667
Clec4n	chr6:123179860-123197042	0.207913333	0.030102367
Aox3	chr1:58169979-58257296	0.207634	1.544253333
Pdzrn4	chr15:92227240-92602250	0.207461333	0
Zeb2	chr2:44839153-44968799	0.207363667	0.006307867
Acmsd	chr1:129625989-129664141	0.2071966	0
Igsf10	chr3:59120656-59148178	0.207148	0.1115664
Fsip1	chr2:118030623-118082702	0.206918533	0.69108
Ccdc69	chr11:54863239-54891633	0.206414	0.151365667
Nrap	chr19:56394531-56464525	0.206174667	0
Tmed6	chr8:109585383-109589544	0.206122333	0.456453333
1700027J07Rik	chr10:43465963-43485642	0.205475667	0
Zfp454	chr11:50686224-50700945	0.205436	3.068758667
Slc5a2	chr7:135409210-135415947	0.204855357	0.025964825
Col4a5	chrX:137909961-138123778	0.204742	1.094898
Lyzl1	chr18:4165829-4182234	0.204698667	0
Gsdmc2	chr15:63655900-63676731	0.204621333	0.2888154
Pde4c	chr8:73247962-73275075	0.204084567	0.405946667
Snai3	chr8:124978105-124984592	0.204018	0.768704667

Klf15	chr6:90412619-90425203	0.203522867	0.191031133
Awat2	chrX:97597560-97607901	0.203428	1.087026333
Enpep	chr3:128972094-129035667	0.203261	1.817263333
Elavl2	chr4:90917456-91066675	0.203242667	1.286765667
A230020J21Rik	chr1:192849229-192853660	0.2030934	0.02460191
Ldb3	chr14:35339884-35401867	0.202992667	0.147815
Ccdc14	chr16:34690701-34725280	0.202814833	0.642836333
Cyp4b1	chr4:115297332-115320310	0.202797967	0
Onecut1	chr9:74709727-74737454	0.202262	0
Tmem52	chr4:154843222-154844967	0.201578667	0.722369333
H2-Oa	chr17:34229323-34232179	0.201100333	0
Lrrc10	chr10:116482396-116483824	0.200905	0.069902667
Kcnq5	chr1:21388483-21952023	0.200605	0.234097
Gstm3	chr3:107766613-107772092	0.200572	1.6358339
Bean1	chr8:106694412-106742997	0.200216567	2.454226667
Tmprss7	chr16:45656429-45693771	0.199154	0
Camk4	chr18:33098694-33355421	0.198750367	1.385443333
Slc29a4	chr5:143178054-143198443	0.198721433	0.410480333
Gm11128	chr6:85758044-85759871	0.1986487	0
Prph2	chr17:47047433-47061875	0.198108433	0
A830019L24Rik	chr3:142906018-142920960	0.197971	0
Fam72a	chr1:133424565-133436449	0.197940333	0
Tmem116	chr5:121902717-121945430	0.197823	0
1110008J03Rik	chr5:121059068-121062598	0.1974503	5.081736667
Gm6377	chrX:106392094-106395784	0.197248433	0.194854667
Melk	chr4:44313788-44377547	0.1971099	1.149629667
Gm13290	chr4:88419737-88420705	0.197055372	0.020580733
Clrn3	chr7:142703138-142720337	0.196991	0.925765
4930444F02Rik	chr10:18517104-18551736	0.196915333	0.542179
Fbln7	chr2:128689667-128722770	0.196873	0
Prox2	chr12:86427763-86447381	0.196862667	0.323941533
Sbpl	chr17:24090051-24092240	0.196703667	0
Arsi	chr18:61071893-61077422	0.196409	0.526554667
Myh7	chr14:55589524-55613386	0.195842	0
Gbx2	chr1:91824536-91827751	0.195770667	0.043971667
Inf2	chr12:113826994-113853768	0.1957044	0.309422333
Fcer2a	chr8:3681736-3694174	0.195673633	0
Kcnt1	chr2:25719373-25773793	0.195593333	0.651750533
Cacna2d4	chr6:119186543-119302425	0.1951385	0.026096167
Vmn2r46	chr7:8317008-8332944	0.195107233	0.375124467
Esco2	chr14:66437863-66452806	0.194803667	0.104432333
Pld4	chr12:113998865-114007197	0.1945844	0.994892333
28-Feb	chr8:68141938-68995536	0.194503667	0.214630333
Mcam	chr9:43942740-43950809	0.194439567	1.291706
Lrrn4	chr2:132694251-132706598	0.1931682	99.4069
Myh7b	chr2:155436947-155460043	0.193136733	0.158639
Aqp4	chr18:15547902-15562193	0.193083033	8.605066667
Casc5	chr2:118872854-118929857	0.192964	2.853416667
Cldn24	chr8:48907496-48908159	0.192839667	0
Pcdha8	chr18:37152120-37347311	0.192431533	0.090987018
Nrtn	chr17:56890747-56896953	0.192283	0.324627
Npc1l1	chr11:6111013-6130248	0.1920693	1.067152

LOC100504608	chr10:126469960-126478450	0.191861667	0.206477333
Slc22a4	chr11:53796627-53841592	0.191651	2.750686667
Slc7a9	chr7:36234110-36251053	0.191555667	0
Sarm1	chr11:78285831-78311256	0.1914204	0.142144667
Nostrin	chr2:68973856-69027386	0.191353	1.099603333
Palm2	chr4:57581119-57730000	0.191322	0.008846667
Pygm	chr19:6384428-6398459	0.1908916	0.063852667
Gm10190	chr17:80771196-80772882	0.190607333	0.274140333
Slc22a13	chr9:119102095-119118223	0.1905636	0.120120667
Lrdd	chr7:148624413-148629254	0.190322	1.896556667
Ifi205	chr1:175942128-175961886	0.189870333	0.0100089
Apobr	chr7:133728521-133732606	0.189861667	0
Mrap2	chr9:87039140-87078880	0.189757567	0.802153333
Vamp5	chr6:72318042-72330462	0.189746333	0.191054
1700008P20Rik	chr7:25118098-25118984	0.189538667	0
Chrna1	chr2:73401337-73418363	0.1889966	0.034609033
Guca1a	chr17:47531506-47537533	0.188645667	0.720313333
Tnfsf18	chr1:163424787-163435421	0.188369333	0.757663333
A730036I17Rik	chr2:129044704-129061342	0.188272667	0.274985333
Shf	chr2:122174627-122194654	0.187923333	0
Cox7b2	chr5:71834061-71939444	0.187887	1.434833333
Acsf6	chr11:54117325-54175041	0.18724	0.810207333
1700010I14Rik	chr17:9181197-9201184	0.187082667	0.303064
Dnahc2	chr11:69234310-69362610	0.187061	0.0976655
Oog1	chr12:89192946-89199120	0.187048667	0.785219667
4930525F21Rik	chr2:125809363-125971987	0.187029967	0
Sypl2	chr3:108015183-108029517	0.186852333	0.022151533
Cenpi	chrX:130842701-130897178	0.186421	0.143371
Bpifb5	chr2:154049477-154066638	0.186077233	0
Pate4	chr9:35414677-35419470	0.18593	0.80157
Adcy10	chr1:167415313-167506904	0.1857002	0.017962833
Prdm16	chr4:153690233-154010982	0.185374667	0.1408516
Nox3	chr17:3635239-3696261	0.1853316	0
Mnda	chr1:175826485-175843053	0.184862333	0.0097449
Vmn2r46	chr7:10339984-10355920	0.184733233	0.427908667
Impg2	chr16:56204425-56273866	0.1846077	0.0168909
Prex1	chr2:166391844-166539332	0.184599333	6.97071
Shank2	chr7:151361424-151608580	0.1845353	0.321052467
Hk3	chr13:55107345-55122746	0.184509667	0.012006767
D430041D05Rik	chr2:103983231-104250491	0.184170633	0
Col4a2	chr8:11312828-11449287	0.1841334	0.006847133
Emilin1	chr5:31216158-31223646	0.183996033	0.289204933
Fstl4	chr11:52578207-53000849	0.183961333	0.01932
4930429F24Rik	chr9:79641447-79651042	0.1837732	0.55742
Pou1f1	chr16:65520963-65534316	0.183751	0.421803333
Ghsr	chr3:27270272-27276932	0.183458	0
Oas3	chr5:121203106-121227668	0.183293333	0.352253667
4931429I11Rik	chr9:40702931-40772195	0.183283	0.176861333
4930432K21Rik	chr8:86671936-86696496	0.1829388	0
Vstm2a	chr11:16157726-16184554	0.182679	0.233132333
Shmt1	chr11:60602398-60624767	0.182455333	0.559663
6030446N20Rik	chr18:12140447-12279962	0.1824236	1.785913333

Caly	chr7:147255778-147268447	0.182249333	0.296657333
Tnfaip8l2	chr3:94943442-94946282	0.182044667	0.516486667
Aff3	chr1:38234171-38721800	0.181762333	5.848046667
Gm7904	chr9:21411530-21412773	0.181583	1.528581333
Pla2g4c	chr7:13911015-13946017	0.181500667	0
Angpt1	chr15:42256270-42508341	0.181395333	0
Tat	chr8:112514335-112523704	0.181302	0
Phox2a	chr7:108966826-108971240	0.181300333	0.020089
Slc25a43	chrX:34283653-34317197	0.181076667	0
D17H6S56E-3	chr17:35153523-35163686	0.1810521	0.714484667
Sult4a1	chr15:83906526-83936184	0.181047333	0.0258469
Al854703	chr6:48578165-48583687	0.180647	0.078364033
Cd53	chr3:106561778-106593067	0.1804709	1.220236667
Tmprss11f	chr5:86950250-87061449	0.180469667	0.0082705
Akr1b8	chr6:34304163-34318454	0.18016	7.789406033
1700084J12Rik	chr15:33334963-33335694	0.180070333	0.808903333
Capn8	chr1:184495137-184562483	0.179991667	1.577782
3632454L22Rik	chrX:131556960-131594875	0.179969333	0
Scn9a	chr2:66318137-66473009	0.1795427	0.302339433
Tmem200a	chr10:25710991-25798858	0.1792608	1.863083333
Lpxn	chr19:12873098-12908298	0.179043	0.134169
Olfir267	chr4:58797650-58798592	0.178960333	0
Gm1568	chr12:81856433-81861702	0.178128733	0.241250667
Cmklr1	chr5:114062363-114100399	0.177931333	0
Xlr3c	chrX:70499878-70510729	0.177816	0.555440667
Npr3	chr15:11769651-11835429	0.177783333	0.076856667
Ppp1r3c	chr19:36806220-36811094	0.177451667	1.316225333
Mab21l2	chr3:86349502-86352205	0.177261567	0.495633333
Htr6	chr4:138617323-138630704	0.177015333	0.331055333
Krt39	chr11:99375937-99382572	0.176615333	0
Smad9	chr3:54559503-54605179	0.176526333	0.181147667
Vcan	chr13:89794914-89882117	0.176236333	0.47769
Plxdc1	chr11:97784550-97847760	0.176233333	0.063667667
Meig1	chr2:3326314-3339920	0.176111	1.925993333
Heph	chrX:93650774-93769823	0.176052	1.173154333
Fap	chr2:62339001-62412078	0.175664667	0.013536367
Spag17	chr3:99689339-99947245	0.175162767	0.554106667
1700023C21Rik	chr11:109707191-109709790	0.174767667	0
Gm17252	chr9:35492663-35494956	0.174767667	0
Fbxo39	chr11:72127945-72132921	0.174509333	0
Col6a5	chr9:105758399-105862974	0.174326167	0
Aox3l1	chr1:58335169-58436108	0.174318533	0.036899333
2310034O05Rik	chr5:100639710-100647068	0.17427	0
4930552P12Rik	chr19:55715078-55776694	0.174218967	0.377725767
Snta1	chr2:154202049-154233820	0.173705	0.044225667
Tc2n	chr12:102886811-102956712	0.173594	1.434316667
Fam150b	chr12:31569188-31578719	0.173512667	2.1875213
1700018A04Rik	chr13:31657360-31674382	0.173313667	0.066776
4930565D16Rik	chr3:84153297-84183843	0.173303667	0
Slc6a4	chr11:76812098-76845845	0.172485	4.411593333
4930444P10Rik	chr1:16056059-16083122	0.172287333	0
Mapk4	chr18:74088140-74224603	0.1721641	1.287676333

Kcp	chr6:29432035-29457952	0.171986	0.028760867
Prss57	chr10:79244218-79251730	0.171864667	0.456850667
Grxcr2	chr18:42145854-42158703	0.171779667	0
Gdpd2	chrX:97925185-97934238	0.1716552	29.665
Sec31b	chr19:44591446-44620338	0.171551667	1.076781333
Tcp10c	chr17:13547437-13570089	0.1714855	0.061700633
Gm14023	chr2:129123105-129133562	0.170530667	0.045109867
Smad6	chr9:63800882-63869866	0.170333033	0.3205094
4932425I24Rik	chr16:38297839-38341946	0.170215667	1.214789667
BB287469	chr12:89055024-89059124	0.170207667	0.175745233
Hamp	chr7:31727387-31729036	0.170047667	0
6820408C15Rik	chr2:152241322-152270064	0.169889333	2.938206667
D730001G18Rik	chr15:74601337-74609289	0.169268	0.481389
Foxp3	chrX:7156801-7172369	0.169036333	0.160371867
Stat4	chr1:52065087-52164028	0.169004667	0.036417333
Cst7	chr2:150396150-150404680	0.168808667	0.036198667
Gm7977	chr3:47829933-47830681	0.168718333	0.091799333
Reck	chr4:43888401-43957678	0.1686127	0.376172333
Rasd2	chr8:77737842-77748012	0.168305	1.089702667
Bcat1	chr6:144942354-145024677	0.168264667	0.103219933
Gm9573	chr17:35754867-35763582	0.16807	2.226962333
Ace	chr11:105829258-105851278	0.1680611	13.47792767
Chi3l4	chr3:106004408-106022397	0.167914667	0
Syt16	chr12:75098747-75368903	0.167829367	0
Gm6524	chr8:11692981-11694514	0.167709367	0.106810667
Gm13710	chr2:84340904-84347030	0.166665	0
Pcp2	chr8:3623370-3625545	0.166648667	0
5730522E02Rik	chr11:25516845-26110576	0.166632667	0
O3far1	chr19:38171568-38188753	0.166602333	2.677903333
Dlk2	chr17:46434369-46440220	0.166533333	0.025750567
Hsf4	chr8:107793700-107799745	0.166298233	0
Shisa6	chr11:66025226-66339628	0.1661965	0
D6Mm5e	chr6:82896915-82980303	0.165987333	0
Il15ra	chr2:11627162-11655589	0.1659101	1.709753333
Gm13845	chr6:31316884-31348773	0.165868333	3.209884333
9930012K11Rik	chr14:70554211-70559309	0.165587667	3.072008667
Ttll13	chr7:87391261-87405707	0.165389667	0.319256
Akr1c12	chr13:4267417-4278645	0.165110667	0.137548333
Hmcn1	chr1:152409631-152840565	0.164994567	0.678458
Myl6b	chr10:127931212-127935741	0.164932	4.289083333
Rln3	chr8:86566965-86568878	0.164907	0.636516667
Gnb4	chr3:32482449-32515457	0.164790933	9.455836667
Dagla	chr19:10319754-10379367	0.1646909	1.810966667
Lrfn3	chr7:31140532-31147791	0.164663667	2.815466667
Lingo3	chr10:80295547-80306784	0.164657667	0.008702
Nrgn	chr9:37352077-37360330	0.164572	0.077803
Npm3-ps1	chr6:85026134-85027120	0.164521667	0.997797667
PscA	chr15:74545268-74547495	0.164405333	0
Zfp385c	chr11:100487532-100512007	0.16419017	0.067895234
Itgal	chr7:134439773-134478651	0.1641525	0.397856667
Rcn3	chr7:52338283-52347583	0.164052667	0
Cd84	chr1:173769827-173820849	0.1639812	0.037992333

6030422M02Rik	chr1:9898718-9931035	0.163923067	0.047942667
1700020C07Rik	chr2:164652881-164654034	0.163719667	0
Mamdc2	chr19:23377098-23522812	0.1633823	0
Gm10391	chr14:26942094-26949271	0.1628011	0.451797667
Chst12	chr5:140981562-141001192	0.162439333	2.283698767
Prima1	chr12:104435117-104480356	0.162375667	0.242517333
Nexn	chr3:151899947-151929284	0.161935667	0.719981667
Tigd5	chr15:75740164-75744965	0.161748	0.1150621
A430078G23Rik	chr8:3353414-3390299	0.161696	0.1455754
Atp2c2	chr8:122223908-122281618	0.161511267	1.199941333
Dclk3	chr9:111341584-111392115	0.161222333	0.628251333
Adcy5	chr16:35155721-35304635	0.160997333	0.005789767
9430060I03Rik	chr1:94830119-94847167	0.160996333	0.185519333
Rrp8	chr7:112880243-112885899	0.160836667	4.20372
Gm5082	chr13:41744811-41752146	0.160771667	0
Gm5531	chr1:155721474-155724001	0.160721667	0.004592733
Cyp2b19	chr7:27542205-27557649	0.1607	0.068515
Vmn2r18	chr5:152364235-152389499	0.160564333	0.0671123
Hpx	chr7:112740124-112748630	0.160564	0
Pla2g2f	chr4:138306447-138313513	0.160524267	16.46662333
Trim9	chr12:71345523-71448601	0.160491233	0
Mylk	chr16:34785035-35002520	0.160443667	0.078210033
Angptl7	chr4:147869388-147874571	0.160246433	0.060655333
Gm10485	chr12:3859292-3862244	0.159632667	0.181509
4930467K11Rik	chr10:57198188-57206159	0.159059	0
Fkbp10	chr11:100277007-100286154	0.158841333	0.014473467
Rasgrp3	chr17:75835244-75928393	0.158736233	1.133518
Gm10394	chr14:27081743-27088920	0.157896169	0.331348134
Gm10391	chr14:26802490-26809652	0.157896154	0.364934631
Olfr111	chr17:37666901-37667942	0.157631667	0
Crisp2	chr17:40901682-40931095	0.157436	0.139424667
Cdhr5	chr7:148454983-148462685	0.157154333	0.075820733
Habp2	chr19:56362427-56394579	0.156628	0.018124667
BC096441	chr11:69496078-69509600	0.156614867	0.519106706
Tspan4	chr7:148661134-148679326	0.156585333	1.158858333
Vmn2r78	chr7:94063858-94103687	0.156582	0
4931402G19Rik	chr2:120281433-120295103	0.156372333	8.25E-267
Ppm1f	chr16:16896561-16927468	0.156084667	4.223046733
2410003L11Rik	chr11:97459824-97484207	0.155611667	3.130242667
Slc7a8	chr14:55341051-55400723	0.155016667	0.885240667
Gm15319	chr8:19933241-19958780	0.154739	0.288206
Spo11	chr2:172805342-172819077	0.1542941	3.081783333
Cdk3-ps	chr11:116077315-116081601	0.154122	0.756935333
Prss52	chr14:64723159-64732588	0.15405	0.069101333
Wdr52	chr16:44394911-44482541	0.1539744	5.305777767
Wfdc3	chr2:164556725-164568767	0.153783667	0.046054667
Gm6034	chr17:36179905-36195590	0.153722667	0.048303333
Lair1	chr7:3958674-4014806	0.153407667	0
4930547N16Rik	chr10:87554142-87609686	0.153251333	0.318751333
Bcmo1	chr8:119619764-119657620	0.153124	0
Gm19299	chr9:66981367-67011595	0.153115333	0
BB287469	chr12:88959817-88963905	0.152856333	0.141572251

Gm13271	chr4:88400771-88401320	0.152804667	0.0110343
Foxd4	chr19:24973454-24975799	0.152802	0
Gm5607	chr8:12385770-12436732	0.152779	0.138595333
Cybrd1	chr2:70956110-70980983	0.1525707	0.218311263
Fam70a	chrX:35550477-35605658	0.152550433	0
Pzp	chr6:128433584-128476738	0.152319333	0.007791833
1700034F02Rik	chr11:29447949-29478352	0.152169333	0.029279133
Slc39a12	chr2:14310024-14416604	0.152101667	0
Stab2	chr10:86303954-86470687	0.1519871	0.49766
C530044C16Rik	chr6:50726113-50764893	0.151907667	0.817396667
Gimap5	chr6:48696195-48704199	0.1511143	0
Gp1bb	chr16:18620411-18622496	0.151033333	2.061319467
Prdm11	chr2:92815062-92886301	0.150645	0.110233567
Gfi1b	chr2:28464969-28477502	0.150503267	0
Defb1	chr8:22887026-22905657	0.150426667	3.83875
Hcn2	chr10:79179378-79198853	0.149784733	0.324931867
Efcab8	chr2:153606614-153620918	0.149692667	0.134246667
P2rx2	chr5:110768830-110772054	0.149373667	0.203414333
Chek1	chr9:36516066-36534243	0.148970667	0.874653667
Samd4	chr14:47502639-47725492	0.1488547	0
Eme1	chr11:94506315-94515068	0.1486122	1.116957667
Otud7a	chr7:70589657-70903913	0.148414	0.36213
Osmr	chr15:6763576-6824313	0.148247	1.750493333
Lrrc63	chr14:75484109-75530690	0.14751	0.264767
Elavl4	chr4:109876341-110024516	0.147249667	0.4743784
Pacsin1	chr17:27792626-27848051	0.146815	0.505328333
Serpinb9g	chr13:33576658-33587869	0.146448	0.367019333
Fgf3	chr7:152024516-152029253	0.146441667	0
Slc35f4	chr14:49918194-50145512	0.14643	0
Mycn	chr12:12942898-12948642	0.146363333	2.172436667
Pla2g2e	chr4:138433856-138438729	0.146342667	0
Fat4	chr3:38785861-38910905	0.145892233	0.113647333
Smpdl3b	chr4:132288880-132313086	0.145813	0.098075333
Upk1a	chr7:31388110-31397493	0.145135333	0.130394333
1700023E05Rik	chr5:77445047-77490547	0.144653333	0
Angptl4	chr17:33911844-33918520	0.144527	0
Zyg11a	chr4:107854538-107890527	0.144474333	0.067539333
Synpo2	chr3:122779436-122939067	0.144431433	0.416829633
Lrat	chr3:82696503-82707896	0.144395	0
Rs1	chrX:157205944-157237595	0.144337333	0.595068667
Pet2	chrX:86649186-86655028	0.143722667	0
Bub1	chr2:127625935-127657595	0.143671	1.479658
Klhl33	chr14:51511063-51512930	0.143647533	0
Gm3833	chr14:10716608-10719382	0.1435572	1.566666333
Gm2762	chr13:53489057-53550999	0.14353	0.371803333
Gm4027	chr12:88959858-88963093	0.143430231	0.017823669
lfnk	chr4:35099303-35101268	0.143180667	0.046054667
Vipr2	chr12:117316195-117384734	0.1430853	0.0211886
Olfir987	chr2:85171123-85172053	0.143009067	0
Dab2	chr15:6249788-6390709	0.142730667	0
Tdrd9	chr12:113209769-113307065	0.142716667	0
Al646023	chr10:75012869-75023075	0.142359667	0.103585533

Apold1	chr6:134932018-134936854	0.142350333	0.120366667
Psg25	chr7:19105050-19117576	0.142223333	0
1700066B19Rik	chr18:35886642-35890523	0.142209667	3.525466667
A330009N23Rik	chr15:101051621-101055617	0.142154333	1.728063333
C130074G19Rik	chr1:186695804-186706915	0.141914	1.532417333
Gm16702	chr17:8571909-8582333	0.141687167	0.410729333
Gna15	chr10:80965058-80986970	0.1413805	1.635439
BC021891	chr8:128434349-128471339	0.140994967	0.0409226
Gm5860	chr4:81711283-81748711	0.140972667	0
Il17c	chr8:124945984-124947539	0.140881	0.075806333
Casq2	chr3:101890432-101950435	0.140821967	0.1873
Ogg1	chr6:113276969-113284180	0.140706667	0.551742
Trpc5	chrX:140816213-141122723	0.140593067	0
4930412F15Rik	chr4:43672493-43681731	0.140554	0.036168
Gm10857	chr2:6053914-6061616	0.140286567	0
Olfr993	chr2:85254089-85255034	0.140089433	0
Slc25a31	chr3:40512792-40530016	0.139746067	0.089614
Xrra1	chr7:107007727-107066334	0.139498	0.1451753
5830416P10Rik	chr19:53515701-53539286	0.139439667	0.392306667
Shc3	chr13:51526410-51662453	0.139418667	0.101483333
Pkdcc	chr17:83614622-83624409	0.139292667	0.700813333
lfnz	chr4:88428034-88429496	0.139186257	0.106614077
Pglyrp3	chr3:91818504-91835506	0.139105667	3.222693333
Gstm6	chr3:107741765-107746667	0.139051	0.029817567
Bche	chr3:73439730-73512337	0.1389333	0.238315
4933413G19Rik	chr6:128325527-128335162	0.138734	0
Steap4	chr5:7960471-7982213	0.138679333	5.3192
Gsdmc3	chr15:63689279-63710113	0.138082233	0.035032833
Abcc12	chr8:89028739-89090489	0.138072	0
Adssl1	chr12:113858257-113879566	0.138064333	0.91495
Gm9895	chr19:29141790-29143993	0.137775667	0
Hsd3b6	chr3:98609426-98618366	0.137446	0
lldr2	chr1:168184269-168246963	0.1373602	0.170890667
Aicda	chr6:122503826-122514198	0.137338667	0
1100001G20Rik	chr11:83560441-83566148	0.137268333	0
Uhrf1	chr17:56442759-56462909	0.136874	1.239903333
Acer1	chr17:57092912-57121549	0.1366533	2.254577
Snai1	chr2:167363726-167368311	0.136308667	0
Mcm5	chr8:77633426-77652338	0.136233667	0.692041333
Aoc3	chr11:101191919-101200744	0.136160033	0.827716
Adamdec1	chr14:69181443-69200129	0.13616	1.37735
	3-Mar chr1:72473685-72583138	0.135997333	1.40187
Gm15698	chr11:88825980-88828231	0.135983	0
Serpina3g	chr12:105452753-105480144	0.1359464	0
Sh3bp2	chr5:34868432-34906288	0.135701	2.199206667
Arhgap19	chr19:41841077-41876574	0.135663333	0.194113333
Zfp286	chr11:62591888-62602919	0.135626667	3.260613733
E130012A19Rik	chr11:97488700-97491030	0.135580467	5.379796667
Gm13290	chr4:88451929-88452897	0.135404	0.023839233
1700007I08Rik	chr2:154377511-154379012	0.135268667	0.021754867
Vmn2r30	chr7:7264984-7290204	0.1351771	0.010759533
Dusp23	chr1:174560899-174563105	0.135157667	5.100686667

Paqr6	chr3:88168510-88172463	0.134986467	0.368876
4832428D23Rik	chr1:44260914-44275776	0.134650567	0
Btbd17	chr11:114651982-114657206	0.134601667	0.067281367
Rrh	chr3:129511492-129525423	0.134597133	2.202994
Gm14405	chr2:176637496-176649142	0.134593467	0.088003267
Prrt3	chr6:113444088-113451812	0.134522567	1.002973333
Rbfox1	chr16:5884885-7412573	0.134433567	0.861010667
Gng7	chr10:80411368-80477670	0.134305733	1.231382333
H2afy3	chr15:62049095-62051006	0.134130667	0.322857367
1700028J19Rik	chr7:51485299-51491492	0.134068	8.0077157
Gria3	chrX:38754480-39031778	0.133945	0.390773
Thy1	chr9:43851466-43856662	0.13371	0.110496333
Ms4a6c	chr19:11543857-11556686	0.133667	0
Lrrc66	chr5:73997880-74023660	0.133464467	0
Insrr	chr3:87600872-87620023	0.133362333	2.13191
Ddc	chr11:11714103-11798147	0.133348	0
Mmp24	chr2:155601079-155644102	0.133307767	0.732060333
Rcsd1	chr1:167579075-167638225	0.133023333	0
Vmn2r89	chr14:52071636-52080968	0.132942333	0
4921506M07Rik	chr12:58665101-58723096	0.132940333	0.34464
Skor1	chr9:62985970-62996768	0.1328397	0
Vtn	chr11:78312621-78315827	0.132838667	0
Unc5c	chr3:141128527-141497886	0.132669667	0
Cd83	chr13:43880475-43898501	0.132391	0.104464233
Spink10	chr18:62708564-62821042	0.132282667	0.43648
Gldc	chr19:30172936-30249908	0.1321153	1.127719067
Ovol2	chr2:144130911-144157816	0.132111	0.688615333
Gm9839	chr1:32576407-32577844	0.132028667	0.0274184
4932438H23Rik	chr16:91054179-91069390	0.131899	2.677223333
Itgb2	chr10:76993092-77028419	0.131882667	0.201190333
Bai3	chr1:25124320-25886552	0.131474667	0
Odf3	chr7:148033814-148036824	0.131373667	2.12072
Sorcs3	chr19:48280514-48879995	0.1313426	0.5653179
Cd86	chr16:36603954-36666163	0.131202667	0.277327
Nat8l	chr5:34338632-34348565	0.130789767	0.031937233
Gm11166	chr17:13289525-13291338	0.130762367	0.539946667
Dpp6	chr5:27143896-28054040	0.130651	2.238637
Grm7	chr6:110595591-111517224	0.1304603	2.965046667
Bambi-ps1	chr2:122292318-122293533	0.130331333	0
Gm20139	chr10:18861554-18927753	0.1303023	0
Efhc1	chr1:20941706-20980922	0.129922133	6.622586667
Spdef	chr17:27851391-27865896	0.1297849	2.644474333
Hoxb5	chr11:96164825-96167435	0.129781333	0
Gm17751	chr1:76485707-76498603	0.12978	0
A130077B15Rik	chr10:122002078-122006947	0.1296133	0.0223562
Cd8b1	chr6:71272805-71287445	0.129606667	0
Fam55c	chr16:55840065-55895398	0.129381167	0.836542
Mef2c	chr13:83643032-83806684	0.129375767	0
4933405D12Rik	chr3:122585509-122627034	0.129153	0.136625667
Wdr16	chr11:67738307-67779144	0.129026333	0.312972667
Uggt2	chr14:119384206-119498656	0.1288771	1.149380333
Foxr1	chr9:44242316-44248951	0.128817333	0

Lmod1	chr1:137221389-137264642	0.128659667	0.018025933
Agmat	chr4:141302589-141315178	0.128653933	0
Miat	chr5:112642247-112657968	0.128457333	13.68416667
Dmrtc1b	chrX:99903219-99910548	0.128390667	0
Prss45	chr9:110737091-110743814	0.128162667	0
9530008L14Rik	chr13:41858516-41942985	0.128152333	0.202388333
Ryr3	chr2:112471538-112870488	0.127865333	0.096528433
Rnf151	chr17:24852784-24855002	0.127865333	0
Gm14405	chr2:175393150-175404796	0.1277967	0.087358233
Erc2	chr14:28435627-29291723	0.127508333	0.190136667
Sec14l4	chr11:3931784-3948012	0.127035	0.499152333
Srd5a2	chr17:74367045-74397256	0.126687333	0
Sh2d2a	chr3:87650676-87659644	0.126489333	0.0062058
Ntrk3	chr7:85336999-85722724	0.126466333	10.43094493
Gulp1	chr1:44608515-44853681	0.126446667	0.304355
Fermt3	chr19:7073447-7093959	0.126386033	7.021111667
Arl14	chr3:69026340-69027540	0.126315	0
Orm1	chr4:63005599-63009196	0.126092333	0.402793333
Gm6592	chrX:8421119-8426733	0.125979667	0
Capn13	chr17:73655803-73748636	0.125913367	1.654563333
Trim72	chr7:135147891-135154907	0.1257167	1.43633
Nps	chr7:142460301-142464625	0.125517333	0.043219333
Bhlha9	chr11:76485971-76487178	0.125428	0
Gpr37	chr6:25618522-25639980	0.125233333	0.403173333
Armc4	chr18:7088230-7297899	0.124814333	0.653253333
Dlgap3	chr4:126846514-126914266	0.124750033	0.137013133
Gm13279	chr4:88437293-88438261	0.124612372	6.14E-07
Cct6b	chr11:82532749-82577790	0.124525467	0
Kcnh1	chr1:194014753-194334040	0.1244856	2.316916667
Dnm3os	chr1:164147753-164155681	0.12442	0.80644
Rbfox3	chr11:118351073-118770886	0.124166333	0.006700033
Mmp13	chr9:7272513-7283333	0.123963	0
Tspan7	chrX:10062241-10173730	0.123712333	5.369906667
Obscn	chr11:58807758-58949877	0.123603333	0
Olfr1014	chr2:85616742-85617660	0.123353	0
Pkn3	chr2:29934285-29946539	0.123315667	0.582610367
Klf1	chr8:87425826-87429194	0.123211	0
Camk2a	chr18:61085285-61147806	0.123193	1.389535
Tlr5	chr1:184884918-184906175	0.122782	0.236326667
Rltpr	chr8:108214805-108222065	0.122630667	0.664413133
Fbn1	chr2:125126329-125332174	0.1226213	0.034773333
Gm6320	chr13:113784075-113790602	0.122414133	1.087156667
A730017C20Rik	chr18:59222034-59236614	0.122105	3.772252067
Fam83d	chr2:158593834-158612373	0.121981333	1.797275833
Mutyh	chr4:116480338-116492036	0.121860333	2.100269
Sycp3	chr10:87922331-87935981	0.121800333	0.50131
1700085C21Rik	chr12:84033506-84040142	0.121779667	0.077169667
Abcb4	chr5:8893720-8959226	0.121674867	0.014530833
Gdap111	chr2:163264202-163281060	0.121655633	0
Myadml2	chr11:120507344-120509651	0.121540333	0
Tigd4	chr3:84397495-84400954	0.121302867	0.33708
Fggy	chr4:95224197-95593630	0.121299	1.926933067

Gm9920	chr15:54931471-54945137	0.121193667	0.046707333
Rbp4	chr19:38191109-38199811	0.121055333	0
Pxdn	chr12:30622900-30702523	0.120975	0.9864461
C86187	chr7:54223116-54231281	0.120888667	0.124126
Pik3cg	chr12:32858261-32893514	0.120648533	0.3764696
Sstr3	chr15:78367444-78374775	0.120640333	0.647992667
Lmod3	chr6:97188521-97202774	0.120411333	0
Trim71	chr9:114420390-114473487	0.1203875	0.196493667
Casp12	chr9:5345475-5373034	0.120385333	0.023450767
Pcsk9	chr4:106114938-106136930	0.1203361	0.4586436
Akap2	chr4:57858119-57909856	0.120243333	4.698313333
Foxp2	chr6:14851348-15391977	0.120126667	2.760469333
Nrip3	chr7:116901569-116925059	0.1200613	0.100083233
Rad51	chr2:118938552-118961806	0.120012667	1.333363333
Mmp17	chr5:130090088-130114086	0.119811333	0
Pbp2	chr6:135259146-135260402	0.119550333	0
Fzd2	chr11:102465744-102469372	0.1193	1.403924
Gldn	chr9:54134292-54189584	0.119090433	0.094888
B230209K01Rik	chr1:122983981-123017552	0.119073	0
Slc3a1	chr17:85427686-85463581	0.118699338	0.447463333
Spint3	chr2:164395194-164398956	0.118637333	0.408503333
1700086L19Rik	chr12:75385262-75396937	0.118331333	0.184521667
Dpcr1	chr17:35772699-35780640	0.117311333	0
Pgpep1l	chr7:75381493-75409119	0.117224	0
Rasal3	chr17:32527605-32540526	0.117197667	0
Npr1	chr3:90254513-90269788	0.117051	0.007284267
Cyp4f18	chr8:74512380-74533525	0.117041333	0
Unc119	chr11:78157023-78162658	0.116759	4.741466667
Mocs3	chr2:168056121-168057803	0.116679033	0.028919033
C330046G13Rik	chr10:84010161-84016083	0.116529	1.580842
Nckap1l	chr15:103284255-103329231	0.116219333	0.043613
Clec4a1	chr6:122871865-122884637	0.115950667	2.84219
Dmrtc2	chr7:25655075-25662670	0.115776333	0
Hormad2	chr11:4246385-4341085	0.115603	0
C4a	chr17:34946036-34960399	0.115533333	0.023962667
4930507D05Rik	chr10:61911907-61914101	0.115478	4.65E-15
Kcnc3	chr7:51846255-51860121	0.1153896	2.639806667
Astn2	chr4:65041836-66065517	0.115314133	1.317472
Olfr1013	chr2:85609959-85610877	0.115230333	0
BC051665	chr13:60883247-60887725	0.115095	0
D17Ertd648e	chr17:12055935-12076055	0.114958	0.319157333
Prokr2	chr2:132196064-132211183	0.114433667	0.205940667
Vmn2r121	chrX:121240947-121249519	0.114383	0
4930444G20Rik	chr10:21786114-21787885	0.114138267	0.048489
Kank4	chr4:98421582-98484228	0.114093	0.036698333
Pip5kl1	chr2:32431338-32439299	0.114084	1.640313333
Gm4832	chr17:88524851-88530456	0.113780333	0.554784
Tert	chr13:73764448-73786489	0.1137226	0.676581333
Lrrc55	chr2:85028227-85036856	0.113593	0
Faim2	chr15:99327435-99358448	0.113315967	0
Htr2a	chr14:75040646-75106666	0.113207	0
Ucp1	chr8:85814246-85822355	0.113131367	0

	2-Mar	chr18:56921369-57085202	0.113098667	0.399127
Sfmbt2		chr2:10292077-10516880	0.112962	0.027662167
Slc8a3		chr12:82298901-82434167	0.112778333	1.464003333
Coro1a		chr7:133843287-133848268	0.112689333	2.855076667
Zfp389		chr13:21596184-21598393	0.112682667	1.02247
2310010M20Rik		chr16:32271694-32274865	0.112514533	0.0063659
Prss16		chr13:22094044-22101610	0.112395	0.014460967
1700123K08Rik		chr5:139003067-139005922	0.112060333	0.067119
Olfr1382		chr11:49348688-49349624	0.1118493	0
Slc1a7		chr4:107640938-107686137	0.111829667	0
C2cd4b		chr9:67607243-67608740	0.111649333	1.504332
Pcdha9		chr18:37157533-37347311	0.111617	0.310925338
Hmgcs2		chr3:98084353-98114661	0.111484	0
Aspg		chr12:113344893-113365784	0.111330967	0.5335135
Phex		chrX:153596617-153853218	0.111246833	0
Ets1		chr9:32503626-32565405	0.111156	0.744786667
1700061G19Rik		chr17:57015055-57028261	0.1111464	0.881927333
Zap70		chr1:36818705-36839661	0.111068667	0
Slc2a6		chr2:26876884-26883518	0.110877	0.574253333
Fam26e		chr10:33811157-33816325	0.110802	3.297523333
Slc36a2		chr11:54971969-54998579	0.110759867	0.129563333
Cyp2t4		chr7:27938732-27943583	0.110666	0.965030333
Nsun7		chr5:66651363-66689255	0.110607833	1.1798548
Cysltr1		chrX:103771855-103798801	0.110578	0
Smcp		chr3:92387787-92392946	0.110361667	2.977923333
A230050P20Rik		chr9:20673085-20678751	0.110301008	0.1635633
Zfp473		chr7:51986855-52003987	0.110277767	0.913219333
Pbx4		chr8:72356602-72396191	0.110139	0.735112667
4933406C10Rik		chr12:33604248-33638654	0.109838	0.71051
P2ry4		chrX:97785492-97790208	0.109460767	1.231553333
2310005G13Rik		chr16:57037079-57071459	0.109402667	2.131420333
Gm7444		chr9:55875442-55879380	0.1090403	0.0259706
Greb1		chr12:16677420-16807692	0.108829667	1.349512667
Prr7		chr13:55565627-55574516	0.108736	0.887679
Msh4		chr3:153520110-153569102	0.108575767	0.140289
4930511E03Rik		chr6:94893827-94901539	0.108212	0
Map4k1		chr7:29767872-29788297	0.10787	0.293463
Batf2		chr19:6164457-6172475	0.107705333	3.080096667
Ntn3		chr17:24340790-24346332	0.107670333	0.330160667
Gm5483		chr16:36184297-36188196	0.107661333	0.165923333
Gm4984		chrX:12229008-12229946	0.1074967	0.1295266
Pknox2		chr9:36698566-36954899	0.107177867	1.06339
Lrrc34		chr3:30523188-30546740	0.107130333	3.170226667
Isoc2a		chr7:4828654-4847318	0.106947333	5.255966667
Naip2		chr13:100914017-100972047	0.106780667	0.029621167
6430571L13Rik		chr9:107242970-107252014	0.106770667	0.549072
Gli1		chr10:126766937-126778635	0.106624733	0.238774567
Chst14		chr2:118752232-118754319	0.106523933	5.304844667
4930568K20Rik		chr5:124679733-124687146	0.106416	1.209659667
Tex14		chr11:87218566-87369325	0.106263167	0.149391967
Gm8979		chr7:113219244-113222662	0.105895333	0
Arhgef25		chr10:126619576-126627110	0.1057617	0.192241867

9130019P16Rik	chr6:54219674-54380215	0.105585167	2.439644667
Msx3	chr7:147232055-147234987	0.105346	1.138137333
Mgam	chr6:40578829-40719122	0.104776	0.064291667
4933408J17Rik	chr10:93052157-93067990	0.104767333	0.338292333
Trip13	chr13:74049909-74075215	0.104712967	2.149613333
BC051628	chr2:180954720-180957556	0.104485333	0.05746
Gm13290	chr4:88422665-88423633	0.104430372	0.012852628
4930403N07Rik	chr12:73202278-73286016	0.104361	0
Gas2l2	chr11:83235403-83242957	0.10419	0
Lyg2	chr1:37962767-37973338	0.103938333	0
2310039L15Rik	chr10:94798909-94825850	0.1038828	0
Zfp534	chr4:147047611-147076662	0.103783	0
4931409K22Rik	chr5:24049251-24061287	0.103603	0
Frmpd4	chrX:163909240-165015165	0.103595333	0.071530233
Zfp647	chr15:76740799-76755878	0.103587733	0.274230333
Hnf1b	chr11:83664370-83719317	0.103483	1.079553333
4930578M01Rik	chr15:98816395-98819712	0.103384667	0
Adamts7	chr9:90057815-90094940	0.103348333	0.357245
Spp1	chr5:104864129-104870072	0.103341333	0
1700047L14Rik	chr5:109192860-109197936	0.102914667	0
Arhgap20	chr9:51573456-51661164	0.1023641	0.0659234
4933424G06Rik	chr1:36771382-36814805	0.102280667	0
Rasl2-9-ps	chr7:5076543-5077552	0.102101	2.238076667
Cmtm1	chr8:106817441-106834045	0.102045867	0.177693667
Cxcl3	chr5:91215128-91217116	0.101592333	0.258708667
Vmn2r47	chr7:10092186-10116991	0.101581443	0.004784033
Wnt9b	chr11:103588676-103611135	0.101548333	0.165426333
Ankrd9	chr12:112213562-112217231	0.101295667	0.719113333
Aifm3	chr16:17489783-17507575	0.1011623	0.229523667
Pcsk6	chr7:73007021-73195272	0.101152067	1.852668
Adamts12	chr15:10994544-11276622	0.1011428	0
Shroom1	chr11:53270706-53281257	0.101119333	2.445553333
Exoc3l	chr8:107813823-107819998	0.1010915	0.26758
Gm12185	chr11:48718157-48740661	0.100940967	0
Trim36	chr18:46324953-46372261	0.100654467	0.0152027
Nos2	chr11:78734360-78773626	0.100650967	0.081717
Ppp1r16b	chr2:158492468-158592070	0.100509033	0.0710607
Grap2	chr15:80453912-80480728	0.100394467	0
Ccdc38	chr10:93003376-93047071	0.100314867	0.148497067
C1ra	chr6:124462638-124473458	0.100307333	0.048369767
Ccne1	chr7:38883002-38892509	0.100011667	0.526912667
Cacna1h	chr17:25511231-25570728	0.099835433	3.609693333
Mybphl	chr3:108167828-108182975	0.099610333	0
Ebf4	chr2:130121674-130196217	0.099459	0.563157667
Dsn1	chr2:156820797-156832811	0.099311467	0.430956
Ghdc	chr11:100627645-100632271	0.099118233	0.491688333
Myh13	chr11:67140604-67185004	0.098949067	0.036204667
Akap14	chrX:34690692-34708837	0.098911333	0.177523667
Slc6a20a	chr9:123546024-123587950	0.098884333	0.018326533
Sfrp1	chr8:24521973-24560104	0.0986193	4.628985333
Asb4	chr6:5333385-5383021	0.0986085	0
4930413F20Rik	chr15:34604827-34608959	0.098562	0.653941333

Rin1	chr7:29573987-29583984	0.098553467	0.138946
Adcy2	chr13:68758919-69138419	0.098189	0.633602333
Gm13279	chr4:88443140-88444108	0.098178667	0.179307
Ptcra	chr17:46892611-46900661	0.097927	0.055353367
Vwc2	chr11:11014018-11163529	0.097710233	2.818313333
1700065D16Rik	chr9:95755968-95758739	0.097639	1.838156667
Gm13547	chr2:29617047-29619609	0.097385333	0.067065
Nhlrc4	chr17:26079177-26081876	0.097124667	0.91623
Insl6	chr19:29395843-29399808	0.097063	1.436156667
Gm13051	chr4:146064712-146094024	0.096752833	0
Vmn2r47	chr7:10402130-10426674	0.096707973	0.010759533
Lhfp12	chr13:94827750-94965364	0.096629333	1.028513
Nipal1	chr5:73039034-73062317	0.096266467	0.439183633
E230008N13Rik	chr4:45903174-45963646	0.096247667	2.265566667
Fam65c	chr2:167806285-167836093	0.096114667	0.049376
Plek	chr11:16871208-16908721	0.095998	0.179682667
Egr4	chr6:85461115-85463536	0.095811333	0
Grp	chr18:66033147-66046233	0.095768	0
Slco2b1	chr7:106806313-106859850	0.095681667	0
E230016K23Rik	chr11:83395562-83437195	0.095378	4.181566667
1600002D24Rik	chr16:96052729-96150684	0.095069667	0
Ssxb3	chrX:8160669-8166372	0.094938667	0
H2-M2	chr17:37617795-37620474	0.094872333	0
1700018C11Rik	chr4:63268124-63283463	0.094745333	0
Ctcf1	chr2:172919109-172945026	0.0946596	0.054409433
Zdbf2	chr1:63319842-63361149	0.0944782	0.020575567
Zdhhc15	chrX:101732308-101866403	0.094389333	1.159293
Sprr2j-ps	chr3:92222008-92223318	0.094336	0
Acot11	chr4:106417165-106472436	0.0943337	1.704915
Hsf2bp	chr17:32081713-32171453	0.094247667	0.602433333
Pou2f2	chr7:25876133-25917479	0.094064333	0.044287
Pax5	chr4:44544377-44723312	0.093976667	0
Slc38a4	chr15:96825253-96886387	0.093822	0.034306667
Slc16a12	chr19:34742895-34821601	0.093791333	0.061379333
Bmpr1b	chr3:141500099-141645215	0.093669	0.010956
Ushbp1	chr8:73908172-73919700	0.093608333	0.050460333
Vmn2r47	chr7:8246254-8270798	0.09346064	0.004782
Zmynd10	chr9:107449640-107453650	0.093377667	5.570603333
Cmtm2a	chr8:106804941-106817081	0.093336333	0
Elavl3	chr9:21819448-21856467	0.093114333	0.321158067
Shank1	chr7:51565633-51613723	0.0929492	0.134137667
Nell2	chr15:95049880-95359137	0.092861867	0
Col12a1	chr9:79446797-79566485	0.092813667	0.082337
Nlrc5	chr8:96996662-97051172	0.092811333	0.2392965
Vmn2r26	chr6:123974775-124012053	0.092790333	0
Selplg	chr5:114267806-114280510	0.092671233	0.017779967
Gli2	chr1:120730637-120950196	0.092659833	1.085264667
Diap3	chr14:87056129-87540921	0.092425333	0.047511433
Tm4sf1	chr3:57090985-57105841	0.092372	4.67413
Agxt2l1	chr3:130320365-130338668	0.092119333	0
Gucy1a2	chr9:3532348-3905787	0.092089167	0.369817667
Corin	chr5:72691263-72895779	0.091827	0.153544967

6430531B16Rik	chr7:147158201-147164654	0.091823	0
Ddo	chr10:40349816-40369737	0.0918149	1.438881667
Tagln3	chr16:45711342-45724644	0.091630333	0.035304333
Als2cr12	chr1:58714963-58752833	0.091537667	0.719160667
Gpr81	chr5:124326744-124330029	0.091481	0
Cd28	chr1:60803231-60830203	0.091322667	0.061535333
Speer4e	chr5:14933630-14938475	0.091144667	0.78318
Gm6904	chr14:59863277-59879053	0.090893667	0.122493
Adra2a	chr19:54119671-54123472	0.090841667	0.48708
0610005C13Rik	chr7:52823164-52830546	0.090672333	0
Gpr183	chr14:122351552-122364415	0.090541333	0.176551667
Adam19	chr11:45869488-45960844	0.090524433	0.383603333
Hspb2	chr9:50559176-50560459	0.089890333	0
Fgf23	chr6:127022919-127031426	0.089825667	0
1700024P16Rik	chr4:104586060-104689468	0.089694267	0.230334333
Peg3as	chr7:6659470-6660335	0.089505	3.023476838
Gucy2g	chr19:55272587-55315726	0.089449867	0.77514
5031414D18Rik	chr14:75415833-75452339	0.089415667	0
Traip	chr9:107853293-107874599	0.089205533	0
Cela2a	chr4:141370877-141381918	0.089080333	3.301193333
Rfx8	chr1:39722145-39777834	0.0890214	0
Boc	chr16:44485157-44558983	0.088919333	1.242739333
Ms4a6b	chr19:11593048-11604893	0.088672667	0
B3galnt1	chr3:69378107-69402783	0.088603333	0.0730027
Igsf11	chr16:38902457-39027270	0.087852333	0.061389667
9430018G01Rik	chr6:43392427-43424317	0.087619067	0.534101667
Mrc2	chr11:105153959-105212459	0.087516	0
Tcfl5	chr2:180356661-180377396	0.087439333	0.033689333
Lhx3	chr2:26055731-26062076	0.087395333	0
Gad1	chr2:70400220-70440069	0.086696333	0
Slc6a12	chr6:121296714-121315791	0.086652	0.100071
Kcna4	chr2:107130745-107138661	0.086519	0
Omd	chr13:49678115-49687978	0.086298933	0.031611967
Vmn2r88	chr14:52030675-52038557	0.086248667	0
Dmrta1	chr4:89354888-89361457	0.085933	0.043536667
Serpnb7	chr1:109319265-109349266	0.085914667	0.279215667
Barhl1	chr2:28763199-28771960	0.085765667	0.047584333
Tssk6	chr8:72426113-72427417	0.085727667	0
6430562O15Rik	chr13:100180790-100182781	0.085667867	0.424838667
Acsm1	chr7:126761341-126806029	0.085592333	1.584116667
Gm6642	chr19:31004875-31005452	0.085232667	0
Cnih2	chr19:5092870-5098418	0.085025667	3.563272333
Ddx4	chr13:113388540-113442518	0.084920333	0
2610528E23Rik	chr16:57302112-57606980	0.084883667	9.120726667
E330011O21Rik	chr16:78251107-78255699	0.084733	0
Hsf5	chr11:87430665-87473044	0.0845834	0.065344333
Ptpn7	chr1:137029301-137041897	0.084546077	0
Aebp1	chr11:5761868-5772228	0.0845051	0
7530420F21Rik	chr1:151923790-151946896	0.084377333	0
A730090H04Rik	chr11:95006366-95020361	0.084202333	1.742583333
Gm11937	chr11:99471107-99471503	0.084114333	0.508003333
4930567H12Rik	chr8:128108537-128140570	0.083936667	0

Olf1002	chr2:85487519-85488476	0.083711667	0
Atp1a2	chr1:174201839-174228195	0.083708	0.0910756
Lcn14	chr2:25592528-25595617	0.083666667	0
Olf1351	chr10:78480068-78481028	0.083376667	0
Foxd1	chr13:99124199-99126660	0.083315667	0.301882067
Gm98	chr19:10282760-10315238	0.083261333	0
Hhat	chr1:194336709-194597413	0.083147333	0.455313667
Nefh	chr11:4838758-4848067	0.082726	0.849976667
AY358078	chr14:52419720-52446034	0.082578	0.642029333
Emr1	chr17:57498108-57622952	0.0822122	0
Troap	chr15:98905403-98913840	0.082077667	0.470553333
Pdxk-ps	chr17:32213027-32228368	0.081901667	0
Slfn4	chr11:82988687-83003718	0.081525	0.025441233
Vmn2r47	chr7:9352155-9376703	0.081497177	0.004779967
Grin1	chr2:25146696-25174683	0.081452001	0.057685667
2610109H07Rik	chr4:147472545-147504807	0.081425333	1.583418333
Serping1	chr2:84605516-84615586	0.081346	0
Hpd	chr5:123621815-123632695	0.081339667	0
1700024P03Rik	chr2:109871406-109890636	0.08121	0
Adam21	chr12:82659570-82669461	0.080807333	0.953553333
Kcnmb2	chr3:31801624-32099102	0.080766	3.303436667
Kremen2	chr17:23878165-23882796	0.0805439	0.017639867
1700058G18Rik	chr10:115855176-115858291	0.080428691	0
H28	chr3:151421700-151425855	0.080405	0.185876
E130310I04Rik	chr16:34943260-34959080	0.080372667	0
Gm12603	chr4:88696210-88730514	0.080312667	0
Tmc5	chr7:125740810-125818599	0.080181	2.151933333
Nrsn2	chr2:152194493-152202302	0.080157333	0
Dmrt3	chr19:25685026-25698411	0.080061333	0.012876033
Bpifb9b	chr2:154132979-154146378	0.080038767	0.033618133
Olf169	chr7:110915790-110920108	0.080004333	0
Ccdc13	chr9:121706744-121748579	0.0799876	0.369806667
Prss33	chr17:23970327-23972734	0.079952333	2.347361
Kcnc2	chr10:111708178-111903360	0.079939767	0
Mmnrn2	chr14:35188689-35217472	0.079734867	0.150647667
Oprd1	chr4:131666640-131700401	0.079610733	0.341621667
Hoxb4	chr11:96179580-96182952	0.079602	0.023839
Osta	chr16:32475663-32487965	0.0795938	0
Ear5	chr14:51781934-51782693	0.079549667	0
Lingo1	chr9:56466281-56533060	0.079307333	0
Slc7a14	chr3:31101777-31209241	0.079133633	1.120609667
Cadm2	chr16:66655665-67621153	0.0789304	0
Ifi203	chr1:175850533-175872623	0.0788577	0.052698667
Slc43a1	chr2:84679564-84703743	0.078405333	0.344576333
Nlrc3	chr16:3946932-3976632	0.078211833	0.555201533
A530006G24Rik	chr2:147536428-147543368	0.077894	0.210082667
Hemgn	chr4:46406860-46417055	0.077674667	0.160894
Phlda2	chr7:150687452-150688429	0.077415333	0
Olf1353	chr10:78426053-78433357	0.077245	0
Hes3	chr4:151660080-151665771	0.077230333	0
Padi4	chr4:140301422-140330118	0.077177667	0.069339
1700034P13Rik	chr1:9737728-9761337	0.077009001	0.111245667

Fam184b	chr5:45920943-46030740	0.076800633	0.170168667
Ankrd45	chr1:163072842-163100638	0.076597367	0.231810667
Serpina3i	chr12:105501331-105507575	0.076595667	1.365760333
5033411D12Rik	chr13:16949309-17786599	0.076468833	11.84578667
Xkr9	chr1:13658851-13691804	0.076320333	0
Ssxb6	chrX:8119729-8125381	0.076310667	0
Ttbk1	chr17:46579396-46624624	0.076118667	0
Mapk8ip2	chr15:89284341-89292878	0.076084333	0.033741333
Pcdh20	chr14:88864553-88871203	0.0757882	34.74476667
Car14	chr3:95701722-95708562	0.075785333	4.08E-07
Gm2022	chr12:89131277-89135166	0.0756443	0
Gm6787	chrX:7674212-7683827	0.075388	0
Cacna1c	chr6:118542313-119146427	0.075318333	0.131452533
Zfp488	chr14:34780255-34791950	0.075261167	0.026819567
Il12b	chr11:44213564-44227519	0.075224	0
4930402F06Rik	chr2:35231081-35252695	0.075144667	0
Rfpl3s	chr9:55810395-55828739	0.075036667	0
Col6a6	chr9:105591746-105730415	0.074917267	0.007500233
Fam64a	chr11:71856003-71860872	0.074667667	0.080355667
Cd19	chr7:133551961-133558384	0.074568667	0
Ccdc152	chr15:3230626-3253526	0.074270333	0
Fam164b	chr10:12869449-12897829	0.074175	0
Notch4	chr17:34701239-34725488	0.074164967	0.948271333
4930455H04Rik	chr3:116671184-116687324	0.074079	0.059492667
Hipk4	chr7:28308279-28316193	0.074008667	0
Disp2	chr2:118605454-118620911	0.0739593	5.44973
Ivl	chr3:92374823-92377637	0.073897667	0
Capn9	chr8:127100010-127142631	0.073720667	0.8251036
Kcnk6	chr7:30006946-30017541	0.073584333	0.744072
Etv4	chr11:101631055-101646624	0.073512667	3.204846333
Gm3925	chr5:143926457-143927430	0.073419	0
4932413F04Rik	chr9:103459419-103468221	0.073401333	0
Kif14	chr1:138364534-138428088	0.0731918	0.051800833
0610038B21Rik	chr8:80040954-80042477	0.073143102	0.114707667
Brdt	chr5:107760212-107816077	0.073129033	0.087226567
Slamf7	chr1:173562533-173583168	0.072958333	0.074544333
A730069N07Rik	chr8:37998637-38015490	0.072896	0
Klf17	chr4:117429263-117438271	0.072880333	0.006287067
Sult1a1	chr7:133816383-133819871	0.072796	0.096849333
Zmynd12	chr4:119095288-119126504	0.072418333	0.108438333
S1pr1	chr3:115413350-115417973	0.072326333	0
Drp2	chrX:130939318-130991112	0.072242333	0
Ube2t	chr1:136859153-136870714	0.071955	2.106576633
Olfr154	chr2:85503533-85504612	0.071955	0
Arhgap28	chr17:68192047-68353448	0.071886333	0.973596667
Rhebl1	chr15:98708190-98711845	0.071833333	5.439779333
Dppa3	chr6:122576441-122580289	0.071826	0
Ush2a	chr1:190086716-190788918	0.071714833	0.005726907
Kcnd1	chrX:7400968-7413629	0.071611667	1.76058
AB124611	chr9:21330620-21349775	0.071547133	1.360174667
Agphd1	chr9:54765096-54797731	0.071367	0.639249
Ccl6	chr11:83401387-83406589	0.071221	6.9425

4931417G12Rik	chr6:113546755-113550709	0.071053	0
Arr3	chrX:97800835-97813832	0.070991	0
Cdh23	chr10:59765497-60159238	0.070976567	0.07374506
E030019B06Rik	chr7:146786849-146802228	0.0709	0.231308667
Gm5431	chr11:48700923-48715654	0.070853333	0
Ttll2	chr17:7555252-7557045	0.070820333	0.238083667
Dppa2	chr16:48310386-48319626	0.070676667	0
Nrg2	chr18:36177311-36356814	0.070552333	0
Gfra1	chr19:58311181-58528956	0.070447267	1.8087639
Ccdc81	chr7:97014657-97052139	0.070379	0.441436667
Sncaip	chr18:52927464-53075585	0.070141	0.033840667
Sez6l	chr5:112848170-113006218	0.070035967	0.105520333
A830060N17	chr16:21247571-21296945	0.069770667	0
Ankrd53	chr6:83712639-83718320	0.069531867	0.022030533
Sbp	chr17:24078962-24082574	0.069426667	0
Dnajc5g	chr5:31410691-31414897	0.069313333	0
Gm766	chr6:142734300-142752986	0.069024667	0.2083641
Cpb2	chr14:75642093-75683360	0.069024667	0.106378333
Slc4a9	chr18:36687805-36704262	0.06857	0.0122989
Hal	chr10:92951512-92979488	0.068528333	0
4931429L15Rik	chr9:46111443-46128069	0.068436333	0
Nuf2	chr1:171428064-171461595	0.068255867	0.510925667
Faim3	chr1:132762353-132777367	0.068162333	0
Efr3b	chr12:3962553-4038915	0.0680283	0.024785467
Ccdc150	chr1:54307526-54425571	0.068017667	0.2513616
Btbd16	chr7:137917582-137969413	0.067863333	0.010433267
Frmd7	chrX:48245821-48295887	0.067729967	0.4962743
Pik3cd	chr4:149023276-149075738	0.0675324	0.228586667
Stmn3	chr2:181041163-181049205	0.067524333	0
Gm16833	chr9:9236287-9260885	0.067402	0.121112667
Sbk2	chr7:4908682-4915950	0.067306	0
Dzip1l	chr9:99530013-99569675	0.067252333	0.809803333
Padi2	chr4:140462274-140508501	0.067183333	0.4451545
Lhpp	chr7:139802325-139898102	0.067129667	0.243775667
Vwa5b1	chr4:138124883-138179907	0.067085	0
Mcm8	chr2:132642070-132669924	0.0670016	0.388220433
BC028528	chr3:95688895-95695853	0.066829667	0
BC024386	chr7:148091962-148093866	0.066794667	0
Tmprss5	chr9:48910883-48925693	0.066489333	0.694726667
Runx3	chr4:134676559-134733905	0.066465333	0.182757
Ccdc159	chr9:21731914-21740316	0.0663671	4.475626
Klhdc8a	chr1:134195202-134203934	0.066293033	0.181016
Kcnj15	chr16:95479257-95521865	0.066289333	4.086086667
Gp5	chr16:30307778-30310865	0.066176	0.76629
Sardh	chr2:27043912-27102823	0.066037333	0.0241749
Hrnr	chr3:93123670-93137494	0.065965467	0.283357
Cntn3	chr6:102113299-102414661	0.065595	0
Cntn2	chr1:134406001-134439517	0.065588667	0.042253133
Lect2	chr13:56643820-56649899	0.065469667	0.151348667
Phf19	chr2:34749274-34769496	0.065435867	0.39741
Lrr1	chr12:70269800-70279997	0.0654073	0.478606667
Pemt	chr11:59784118-59850341	0.065375	0

4921508A21Rik	chr11:55005220-55011184	0.0652807	0.037371667
Kcnk16	chr14:21081977-21088384	0.065273667	15.350942
4930524L23Rik	chrX:7150725-7158142	0.064992133	6.5319338
Islr	chr9:58004070-58007028	0.064901667	0
Cd101	chr3:100797451-100833418	0.064768	0.044605667
Rp111	chr14:64611267-64652343	0.064757367	0
Tmem74	chr15:43698240-43701575	0.064633	0
C8b	chr4:104438921-104477153	0.064545	0.096885667
Obsl1	chr1:75482399-75503027	0.064290667	1.113527667
4933411G11Rik	chr5:143942695-143966747	0.064184667	0
Pvalb	chr15:78021547-78034586	0.064029	0
Fbxw21	chr9:109041967-109064536	0.063923667	0
Tmem59l	chr8:73007769-73011257	0.063873333	0
Accsl	chr2:93695519-93709260	0.063857	0
Gm13247	chr4:145658643-145696039	0.063655333	0
Xlr4a	chrX:70319683-70327846	0.0636465	0.043398
Fam3b	chr16:97692692-97726543	0.063640333	1.400076
Vmn1r65	chr7:5959351-5962612	0.0632953	0
Tm4sf20	chr1:82753223-82765031	0.063083	0.837593333
Gm16894	chr1:40133056-40142696	0.062952667	0.043352667
Chrn3	chr8:28479182-28510202	0.062946	0
Icam4	chr9:20833816-20834975	0.062650333	0
Hrh1	chr6:114347929-114433290	0.062615	0.011913833
Slc11a1	chr1:74421776-74432625	0.062541	0
Olfr613	chr7:110698881-110704018	0.062501	0.012526067
Fscb	chr12:65572319-65575885	0.062465133	0
Gm3020	chr14:3757740-3775300	0.062421459	7.45E-08
Glra4	chrX:133292212-133314260	0.0623813	0
Hsd3b5	chr3:98422558-98449457	0.062157	0
Syt17	chr7:125525369-125587066	0.062057	4.722249333
Angpt4	chr2:151737067-151770390	0.061792333	0.085107333
Gm11437	chr11:83961864-83980978	0.061480333	0.303797333
Cfd	chr10:79353597-79355401	0.061243667	4.598266667
Atoh8	chr6:72156171-72185571	0.061082333	0.914006667
9030418K01Rik	chr2:178149238-178156866	0.060871667	0
Lyzl6	chr11:103492388-103500188	0.060703	0
Apitd1	chr4:148502457-148511709	0.060648	1.478423333
Tmod4	chr3:94928435-94933130	0.060645	0.041292667
Myl4	chr11:104411976-104448533	0.060613	0.525672
Naip1	chr13:101177724-101222819	0.0605731	0.388997333
Cd1d2	chr3:86790507-86793454	0.060557167	0.0773872
Grid2ip	chr5:144119016-144153477	0.060458667	1.019674667
Rasal1	chr5:121098830-121129602	0.060397533	0.039614833
Psg16	chr7:17659388-17684320	0.060313667	0
Ces1g	chr8:95826267-95861108	0.060139667	0.464613833
Cyp2c69	chr19:39917149-39961259	0.060114	0
BC051537	chr17:34220787-34232254	0.059885669	0.023073367
Pira4	chr7:3789728-3849694	0.059854333	0.000047998
Gm9159	chrX:100740838-100743038	0.0595808	0.042336333
Trpv1	chr11:73051760-73074009	0.0594911	3.02725
Magee2	chrX:102050290-102052606	0.059368667	0.063891
Bcl2l15	chr3:103636618-103658541	0.059227	0.190886333

Dpf1	chr7:30089023-30102605	0.059157667	0.140394733
Traf1	chr2:34798777-34817292	0.0591116	0
Jph2	chr2:163161977-163223729	0.059011333	0
Glp1r	chr17:31038811-31073455	0.058991067	47.0633
Pla2g4d	chr2:120091604-120114805	0.058865833	0.013837433
E230029C05Rik	chr7:97177668-97188790	0.0587	0
Adam32	chr8:25946614-26059276	0.058542667	0
Nlrp10	chr7:116065366-116073672	0.058516333	2.179307633
Fmod	chr1:135934091-135944854	0.0579804	0.0763039
Syngn4	chr7:53142214-53152081	0.057912	0.190347
Nr2e3	chr9:59790577-59797886	0.05774	0.0156979
Slmo1	chr18:67624502-67640235	0.057648033	0.797770667
Zan	chr5:137819864-137918292	0.057624733	0.1154363
6330406I15Rik	chr5:150214380-150234278	0.0576108	0
Olfr691	chr7:112485259-112486228	0.057530333	0
Col28a1	chr6:7947807-8142617	0.057508	0.055882
Wdr17	chr8:55714968-55809721	0.057333	0.407926667
Gje1	chr10:14435431-14438020	0.057224667	0
Abcg8	chr17:85082470-85099673	0.057167267	0
4930505A04Rik	chr11:30326005-30371829	0.057050667	0
Ptpv	chr1:137005074-137029152	0.0570397	0
Gm6578	chr6:12049522-12059580	0.057004333	0.036671333
Gm1995	chr12:89099797-89104138	0.056919667	0.040712
Rad54b	chr4:11486066-11542955	0.056897807	1.396290231
Gm10825	chr10:22122618-22127276	0.056788867	0.164576533
Svopl	chr6:37933738-37996996	0.056742667	0.239469667
Slc18a3	chr14:33275622-33278036	0.056728333	0.0254833
9630028B13Rik	chr1:187253235-187265698	0.056655367	0.168395
Flt1	chr5:148373771-148537564	0.056639	0
4933402D24Rik	chr1:63801482-63815841	0.056476333	0.021759733
Zpbp	chr11:11180042-11362422	0.056393667	0.107892667
Sftpb	chr6:72253241-72264364	0.05639	0.230372667
Slc7a2	chr8:41947720-42007424	0.0563598	0.556593667
Irx4	chr13:73397944-73407068	0.056273267	1.602493333
Eya4	chr10:22823973-23069709	0.056258	0
Igf2	chr7:149836672-149846940	0.056114333	0.131509667
Col8a2	chr4:125964037-125991574	0.056098533	0.115838667
Slc46a2	chr4:59918770-59927928	0.0558359	0.924289667
Cngb3	chr4:19207996-19437770	0.055589	0.0189251
Tcerg1l	chr7:145400654-145589413	0.055514667	0.442043333
3300005D01Rik	chr17:5798656-5803242	0.055346333	0
Krtap5-4	chr7:149489406-149490408	0.055132333	0
Gdf9	chr11:53246787-53251404	0.054775333	0
Itpka	chr2:119568072-119576989	0.054638	0
Gcgr	chr11:120392040-120400298	0.054552667	0.2555409
Ctla4	chr1:60965868-60972674	0.054489333	0.215013333
B020004J07Rik	chr4:101507573-101516627	0.054368767	0.045862667
9930111J21Rik2	chr11:48779318-48792900	0.054284	0
Xirp1	chr9:119922872-119932716	0.054280667	0
Ptafr	chr4:132119981-132136781	0.054230667	0.017443567
Vstm2l	chr2:157740388-157770455	0.054226333	0
Col2a1	chr15:97806032-97835155	0.054089333	0

Tbkbp1	chr11:96997484-97011026	0.0540343	0.021527667
Kifc1	chr17:34012610-34027578	0.053969267	0.293575733
Olfr635	chr7:111127689-111128655	0.053955333	0
Sh3gl3	chr7:89319727-89455927	0.053936067	0.048439667
Sycp1-ps1	chr7:19371650-19374763	0.053896967	0.029019933
Fbn2	chr18:58168276-58369580	0.0538683	0.0290093
1700030L20Rik	chr3:136098233-136112313	0.053783733	0.123058167
Aim2	chr1:175350734-175396167	0.053729333	0.084476333
Aurkb	chr11:68859144-68865164	0.053678	0.813310333
Apol8	chr15:77579042-77585659	0.053631	1.498741333
Mmp19	chr10:128227965-128237880	0.053446733	1.659745
Cdhr1	chr14:37891034-37911497	0.053440667	1.109695667
D030047H15Rik	chr7:4077941-4088528	0.053252333	0.0125376
Mical1	chr10:41196119-41206836	0.053190333	0.9344861
Cyp2u1	chr3:130993408-131006145	0.053189833	0.144327833
Pax6	chr2:105509052-105537521	0.053134333	0.242210667
Slc6a11	chr6:114081234-114199880	0.052873667	0.160212333
2010002N04Rik	chr18:60633844-60661637	0.052801333	0.015812833
C4b	chr17:34865325-34880842	0.0526682	0
Muc5ac	chr7:148974915-149005040	0.052620333	0.006770233
Spata20	chr11:94340217-94346624	0.052555	0
Slfnl1	chr4:120204835-120209266	0.052553333	0.282173667
Gm8300	chr12:88855265-88859215	0.052533667	0
Hnf1a	chr5:115398988-115421071	0.052513667	0.0852209
Gm13278	chr4:88442645-88444107	0.0524855	0.184939333
Tdrd6	chr17:43752283-43767248	0.052412067	0.104185133
Gm4827	chr16:50019770-50072965	0.052378	0
Foxf2	chr13:31717684-31723275	0.052326233	1.451013333
Gm10413	chr14:6956219-6964661	0.052094	0
Mrgpra9	chr7:54490288-54508218	0.052042667	0
Mfap2	chr4:140566338-140571899	0.051732667	1.9941
Pdgfd	chr9:6168611-6377519	0.051459	0.44297
Card9	chr2:26207831-26215067	0.051422033	0.091154667
Gpr65	chr12:99506866-99514842	0.051383667	0.0307764
Olfr856-ps1	chr9:19461482-19463124	0.0513814	1.991558
4933433G19Rik	chr13:67097753-67133341	0.051308667	1.642711
Dmrtc1a	chrX:100098559-100104026	0.051239	0
Katnal2	chr18:77231938-77286035	0.051207333	1.648006667
A930009A15Rik	chr10:115007041-115019510	0.051178667	0.042217333
Fgd1	chrX:147481775-147523629	0.0511473	0.621298
Fam131c	chr4:140924134-140940090	0.051122	0.206683
Ankrd34b	chr13:93195923-93211613	0.0510962	0.036071333
6030466F02Rik	chr8:126257857-126263841	0.05108	0.302341667
Mrgprh	chr17:13068899-13070708	0.051008333	0
Aire	chr10:77492775-77506325	0.050791333	0
Ryr2	chr13:11645369-12199212	0.050706167	0.018603233
Gpr151	chr18:42737673-42739306	0.050626867	0.029915067
Opn5	chr17:42693731-42748262	0.050534	0.3917809
BC055402	chr1:57257488-57271840	0.050510667	0
Cacng5	chr11:107735918-107776369	0.050346333	0
Gm4070	chr7:113300049-113358851	0.050086803	0
BC039771	chr2:145526930-145579408	0.050039667	0.617083667

Golt1a	chr1:135206399-135219603	0.049976667	0.535933333
Ptplad2	chr4:88058833-88084830	0.049906667	0.137469767
Olfir920	chr9:38560380-38564448	0.049891333	0.057668
Wnt10a	chr1:74838592-74850749	0.049863	3.528614667
Gm3230	chr2:19577432-19579524	0.049827	0.044766333
BC052688	chr13:61872939-61888642	0.049812333	0.074453667
Kbtbd13	chr9:65236490-65239459	0.049808367	0.010178233
Myo1a	chr10:127142311-127157996	0.049723	0.044673
Dnm3	chr1:163917432-164408165	0.049651	6.44059
Hgfac	chr5:35384201-35391085	0.049537333	0.712096667
Gabbr2	chr4:46676769-47004586	0.049507	0.239832333
Sorcs1	chr19:50217790-50753136	0.049398	0
Tbxas1	chr6:38868984-39034578	0.049383333	0.27632
Gm10789	chr16:90142481-90147072	0.049325	0.1460841
Ucn3	chr13:3939933-3944595	0.049307	0
Olfir156	chr4:43833206-43834305	0.049114667	0
Pcsk5	chr19:17507321-17912122	0.048952	0
Cxcl15	chr5:91223559-91232093	0.048917	0
BC051019	chr7:116855694-116867285	0.048750333	1.767393333
4930556M19Rik	chr15:10644590-10719878	0.048749	0.023767267
Ikzf1	chr11:11586215-11672929	0.048742233	2.2666883
Fkbp14	chr6:54527598-54543122	0.0487108	1.231934667
Stab1	chr14:31952202-31981827	0.048539367	0.162877333
Olfir1318	chr2:111996054-111997164	0.048514	0
Armc2	chr10:41634796-41738188	0.0484771	0
Gm5464	chr14:67487686-67489842	0.048188	0
Nlrc4	chr17:74825634-74858448	0.048126667	0.038700333
Klk1b5	chr7:51471844-51476073	0.048031333	5.386133333
Cenpw	chr10:29915814-29920346	0.048019333	0.645966667
Ccin	chr4:43996375-43998405	0.047972333	0
Nos3	chr5:23870636-23890292	0.047925333	0.021754681
4930528D03Rik	chr13:59835010-59838831	0.0478721	0.022746467
Tbx1	chr16:18581805-18587062	0.047808033	0.993295
4933405L10Rik	chr8:108232202-108234068	0.047770667	0
Psg23	chr7:19191691-19201850	0.047625	0
Ndp	chrX:16462647-16488890	0.047474333	0
Art2b	chr7:108727373-108729675	0.047376	0
Wdhd1	chr14:47860618-47896532	0.047308667	1.529252
Sema6b	chr17:56262507-56279766	0.047276	0.073995333
Peli3	chr19:4931854-4943092	0.047227	0.233745
3110045C21Rik	chr1:171899539-171902527	0.047202333	0.363733333
Reln	chr5:21390271-21850523	0.047077933	0.57195
Dact2	chr17:14332236-14340838	0.047069667	0.289128
Cd38	chr5:44260065-44303613	0.047022	0.50416
Cd48	chr1:173612185-173635388	0.046847667	0
Bco2	chr9:50341191-50363243	0.046814667	0.126260333
Gm10415	chr6:126236666-126278704	0.046781667	0.0322164
Spag5	chr11:78115092-78135956	0.0467483	0.268942633
9530091C08Rik	chr9:68613152-68621129	0.046395367	0.664944067
EU599041	chr7:50469408-50482212	0.0462191	0.104352367
F830002L21Rik	chr10:43313232-43350719	0.046186633	0.034629
Stard8	chrX:96237919-96270067	0.046030667	0

1300002K09Rik	chr4:45861818-45899880	0.046018333	0
Gm13483	chr2:50152329-50289487	0.04596	0.132239333
Cthrc1	chr15:38908477-38918665	0.045767	0
Gml	chr15:74643884-74649245	0.045712667	0
Pde6g	chr11:120308923-120314797	0.045381	0
Krtap10-4	chr10:77288913-77289815	0.045184	0
Ptk6	chr2:180929828-180937494	0.04517	1.327016233
Gja6	chrX:157340047-157344984	0.045135667	1.008053333
ltga5	chr15:103174717-103197179	0.045123	0.020269967
Gm11186	chr11:52924952-52933558	0.045058333	0
Bnc2	chr4:83918445-84320990	0.045056667	0.526892667
Arhgef33	chr17:80706746-80788029	0.0450409	0.447091533
Trpc4	chr3:53959978-54122393	0.045037667	0
Gm20324	chr15:82729509-82736246	0.045019333	0.062005667
Gm12888	chr4:120988920-120997522	0.044965667	0.657676667
Gpr77	chr7:16819933-16829503	0.044952643	0
2010001M09Rik	chr18:35806918-35809021	0.044924333	0.121084333
Pira11	chr7:3789755-3849695	0.044808	0.014777033
4930417O22Rik	chr11:101813734-101821888	0.044781	0
Dtx1	chr5:121130272-121161678	0.044587333	0.449313333
Sema3d	chr5:12383165-12588943	0.044571333	0.554746333
Gm4070	chr7:113043632-113102481	0.044492137	0
Cyp1b1	chr17:80106292-80114381	0.044486333	0.80956
1700023F06Rik	chr11:103060260-103069872	0.044478333	0.193189333
Hrct1	chr4:43740069-43740982	0.044476667	0
Asxl3	chr18:22503589-22688728	0.0441269	0.007333333
Ston1	chr17:89025894-89045064	0.044115667	1.162038
Cd244	chr1:173489323-173515447	0.044046667	0.0079146
Slc18a1	chr8:71561606-71613121	0.0440444	7.310833333
3110007F17Rik	chrX:120217167-120256902	0.044038	10.48676333
Sdpr	chr1:51345969-51359804	0.044009467	0.834131
Olfr1350	chr7:6522703-6523630	0.043608	0
4930447N08Rik	chr3:122498008-122504898	0.043533667	0.40329
Olfr1420	chr19:11970512-11971442	0.043426	0
Onecut2	chr18:64500017-64558142	0.043307333	0.082965833
Nodal	chr10:60880719-60888085	0.043290667	1.046047667
Olfr148	chr9:39421153-39422086	0.043246	0
B4galnt4	chr7:148247172-148258018	0.043186667	1.974762667
Tnfrsf4	chr4:155387803-155390698	0.043160667	0.071206333
Atp8a2	chr14:60266577-60705671	0.043111767	0.348408
Gvin1	chr7:113300049-113358854	0.043071483	0
Gm16432	chr1:179921565-179978422	0.043028	0.320315133
D2Ertd750e	chr2:118639738-118661948	0.042993333	0.879924
Gck	chr11:5800825-5849602	0.042903	0.402333333
Ptpn5	chr7:54333169-54389054	0.042787333	0
Olfr1380	chr11:49377424-49378360	0.0427873	0.042520333
Ret	chr6:118101765-118147762	0.0424873	0.3074132
Vmn2r31	chr7:7336695-7352338	0.042460133	0.0413409
Amdhd1	chr10:92986082-93002778	0.042411667	0
Inhbe	chr10:126786457-126788828	0.042368667	0
Podn	chr4:107687397-107704695	0.042266667	0.079601333
4930474N09Rik	chr12:100399486-100401018	0.042222	0

Olf455	chr6:42488065-42489019	0.042024667	0.045226
Nos1	chr5:118317127-118403820	0.041810667	0
Klhl34	chrX:154256366-154258301	0.0417618	0
Pde4b	chr4:101927346-102279867	0.041715667	1.251682667
Fam101b	chr11:75832696-75841284	0.0416294	0.646523333
4933404O12Rik	chr5:137395015-137412979	0.041563	2.060487
Tktl1	chrX:71422597-71453837	0.041473667	0.300546633
Dlx2	chr2:71381464-71384811	0.041437	0.512216333
Glpr2	chr4:43970573-43991990	0.041411367	0.046573
Col14a1	chr15:55139304-55352358	0.0410332	0
Rab33a	chrX:45872646-45883409	0.040977667	1.767156667
Gm7104	chr12:89521310-89525514	0.040837333	0
Grip2	chr6:91711502-91757387	0.040527833	1.148623333
Pcdha6	chr18:37127409-37347311	0.040501008	1.84E-08
Tgm6	chr2:129949020-129979961	0.040330333	3.463286
1700026D08Rik	chr7:90924126-90943349	0.040276667	13.86206667
Slc5a12	chr2:110437455-110489502	0.040228667	0
Ccdc27	chr4:153400752-153416786	0.039974733	0.0329363
Cacna1g	chr11:94269704-94335512	0.039921667	0.055933
Cym	chr3:107014212-107024650	0.03983	0
Tnnt3	chr7:149684740-149701914	0.039775667	0
4930483K19Rik	chr10:76008615-76024971	0.039713333	0.354579667
Dock10	chr1:80497647-80755128	0.039581733	0.126681667
Cd163	chr6:124254668-124280545	0.039483567	0
Fam65b	chr13:24706478-24825675	0.039465267	0.5230648
Slc34a2	chr5:53440591-53462902	0.039424	0
Hnf4g	chr3:3508029-3659800	0.039364333	0.077805667
D930020B18Rik	chr10:121078756-121130970	0.038863333	0.062736
Skint1	chr4:111678873-111702143	0.038843333	0
Gm1715	chr9:52487967-52606877	0.038790667	2.80038
Klb	chr5:65739649-65775242	0.038719	0.182620067
5830403M04Rik	chr5:100506980-100524292	0.038636667	0.327499667
Mageb3	chr2:121779506-121781828	0.038616667	0
Dpys	chr15:39600030-39689016	0.038614	0.086942667
9330178D15Rik	chr3:155639317-155671556	0.038575667	0
Gpr44	chr19:11011649-11017001	0.038525335	1.88E-09
Vwa1	chr4:155142603-155148670	0.038502	1.470448267
Exo1	chr1:177810908-177841527	0.038496333	0.198778233
C130026L21Rik	chr5:112010580-112016173	0.038401667	0
Gvin1	chr7:113043632-113102484	0.038372483	0
Hes5	chr4:154335031-154336480	0.038368	0.111748467
Apol7c	chr15:77355296-77363745	0.038348333	0
Alk	chr17:72218327-72953647	0.038329	0.044274667
Pkdrej	chr15:85645105-85652163	0.038244	0.221335
Ccdc74a	chr16:17646562-17650831	0.038188333	1.225192667
Gpr82	chrX:13238488-13244559	0.038175	0.341762333
Nkx2-2	chr2:147003281-147012138	0.038163667	0.441123333
Cd200r3	chr16:44943790-44981493	0.038152333	0
Epb4.9	chr14:71001990-71035855	0.037971	0.137318667
H2-DMb2	chr17:34282360-34288040	0.037909333	0.536523333
Cyp2e1	chr7:147949730-147960876	0.037908633	0.238853633
C8g	chr2:25354175-25356026	0.037759667	0.542793333

Gm13288	chr4:88451434-88454284	0.037725594	0.5886799
Gm12250	chr11:57997344-58003700	0.037628667	0
Nol4	chr18:22851655-23200154	0.037522	0.360148667
Gm4303	chr10:99803471-99804396	0.037461667	0
Gm4305	chr10:99813726-99814636	0.037392	0
Ciita	chr16:10480164-10527657	0.037168567	0.0258882
Btg4	chr9:50924105-50927805	0.037043333	0.433673333
Hdx	chrX:108688812-108810688	0.036981367	0
Cdca5	chr19:6085096-6091773	0.036861667	0.599394867
Rtbdn	chr8:87470889-87480502	0.036818333	0
Acot3	chr12:85393100-85400514	0.036637	0.071218
Stard6	chr18:70632198-70660717	0.036626667	0
Npl	chr1:155350145-155396844	0.036595667	0
1700129C05Rik	chr14:59751876-59761730	0.036481333	0
5430421N21Rik	chr15:101315560-101321943	0.0364648	0.814451
Clca2	chr3:144459522-144482458	0.036301667	0.540892667
Foxd2	chr4:114578884-114581503	0.036241333	0
Klkb1	chr8:46354806-46380189	0.036231667	0
Mill2	chr7:19425314-19444002	0.036143333	0
4933405E24Rik	chr11:53991273-54026790	0.035894667	0
Hdh3	chr4:62160087-62163234	0.035812667	6.264363333
Myl9	chr2:156601199-156607393	0.035812667	4.238753333
Pin1-ps1	chr2:104554082-104556447	0.035812667	0
Accn4	chr1:75447084-75470915	0.035781	0
Ssxb10	chrX:7904549-7913361	0.035675667	0
Hfm1	chr5:107269215-107354909	0.035552667	0
Gm20187	chr12:27775101-27799860	0.035460667	0
Arhgdib	chr6:136872229-136890238	0.035128333	0.252482667
AI197445	chr13:108259901-108269268	0.035122	0
Rho	chr6:115881944-115888848	0.0350839	0.042198333
Bpifa1	chr2:153968615-153974953	0.034971	25.041
Slc30a3	chr5:31388478-31395900	0.034906	0.075130333
Gm10532	chr18:75674298-75682460	0.034731	0.065374667
Eda	chrX:97170944-97596099	0.034669333	0.280323333
Numbl	chr7:28043779-28067169	0.034603667	0.120112667
Elovl2	chr13:41277750-41315772	0.03447	0.037095667
Plxnb3	chrX:71002441-71017849	0.034429367	0.409503667
5730403I07Rik	chr9:77214218-77247223	0.034331	0
Gcm1	chr9:77899764-77913431	0.034324267	0
Col4a3	chr1:82583495-82718634	0.0343033	0.600693333
Gm5415	chr1:32600390-32604138	0.034188403	0.0087221
Cdhr3	chr12:33718660-33777740	0.034185	2.45703
Gm13285	chr4:88446223-88446772	0.034011471	0.027304667
Gal3st3	chr19:5298330-5308739	0.0338656	0.085232633
BC049715	chr6:136777363-136789075	0.033689334	0.326628
Rgs17	chr10:4424140-4520877	0.033602367	0.025558733
Cyp2w1	chr5:139828570-139832987	0.033531333	0
Lass1	chr8:72839673-72855487	0.033508333	0
Ofcc1	chr13:40097250-40383380	0.033501333	0
Dbx1	chr7:56886868-56892205	0.033485	0
Scn1b	chr7:31901542-31911964	0.033454333	0
Serpina3f	chr12:105452753-105459339	0.0333106	0

Lhfp	chr3:52845468-53065601	0.033271033	0.331282
Has1	chr17:17980289-17992152	0.033218	0.383215833
Gm16381	chr12:88985074-88989933	0.033129467	0
Gm16381	chr12:89080291-89085164	0.033129467	0
Hoxa4	chr6:52139685-52141702	0.0331242	0.0213091
Ptprc	chr1:139959437-140071882	0.033093433	0.034842333
Raet1b	chr10:21893680-22093919	0.032915433	0
Sult5a1	chr8:125666746-125682180	0.032908867	0.206964667
Tmem207	chr16:26503878-26526857	0.0328747	0
Cldn2	chrX:136335346-136345927	0.032832233	2.249553333
Fgf13	chrX:56315327-56387613	0.032812233	0.954629
Ttll9	chr2:152788220-152834218	0.032653367	1.02912
Optc	chr1:135793770-135804576	0.0325659	0
Sgca	chr11:94824135-94837641	0.032496733	0
Smok2b	chr17:13427736-13429320	0.032427267	0
Apbb1ip	chr2:22629846-22731173	0.032150267	0.04821
Cdh20	chr1:106665395-106892058	0.032120967	11.46448333
BC030870	chr8:67609512-67653436	0.0321128	1.714261667
Rad	chr8:107151965-107155221	0.0319834	0
Mov10l1	chr15:88813423-88885582	0.0318399	0
E030013119Rik	chr2:12222872-12233942	0.031820533	0
Ache	chr5:137729504-137735691	0.031685633	0.170650667
Asf1b	chr8:86479592-86494094	0.031430633	0.024219833
Ccdc144b	chr3:35906168-35952469	0.0313679	0
Slc22a29	chr19:8234657-8293329	0.0312891	0.033672667
Slc38a11	chr2:65154689-65202083	0.031273	0.072295
Xrcc2	chr5:25195633-25211615	0.031204133	1.376593333
Chia	chr3:105916299-105935034	0.031037233	1.513093667
Cdkl4	chr17:80922889-80963174	0.031029	0.629543333
Rasgef1a	chr6:118016402-118041564	0.030987533	2.763956
Ankmy1	chr1:94766705-94799483	0.030916033	0.185173
Eaf2	chr16:36792969-36874912	0.030896	0.807246667
Gm3852	chr1:46068391-46069108	0.030840967	0.033190333
Hsh2d	chr8:74713566-74724857	0.030800733	0.249051333
Twist1	chr12:34642535-34644696	0.0307443	0
Col16a1	chr4:129725083-129776521	0.030740867	0
E030002O03Rik	chr7:111301526-111313330	0.0305998	0
ltga2	chr13:115626119-115722249	0.030521067	0.319958333
A830093I24Rik	chr12:4753021-4776073	0.030476667	0.272843333
Krt25	chr11:99177157-99184255	0.030296167	0
Zfp936	chr7:50432957-50447479	0.030281	0.066648767
Col6a4	chr9:105892648-105999022	0.0302641	0
Kntc1	chr5:124199734-124271602	0.0301991	0.584239667
Asb15	chr6:24478143-24523164	0.030144967	0
Vmn2r14	chr5:109644520-109653641	0.030093467	0
Cntnap2	chr6:45010059-47251370	0.0300921	0
Gm4894	chr9:49058635-49088699	0.0299977	0
Tmem202	chr9:59366491-59373308	0.0298876	0
Gm16287	chr4:138731321-138736570	0.029599967	0.013296767
Heatr8	chr4:106353021-106400535	0.029576433	0
Kdm4d	chr9:14267024-14304926	0.0293781	0.104156
Afap1l1	chr18:61889915-61946316	0.029366667	0.151059

Slc15a3	chr19:10917033-10932405	0.029281033	0.220723
Gm4922	chr10:18499532-18506599	0.0291445	0.172647
Stk32b	chr5:37838063-38108392	0.029030233	0
Itgb1bp2	chrX:98644447-98648880	0.0288662	1.130006667
Mageb16	chrX:76868569-76916774	0.0288157	0.774682333
Vmn2r36	chr7:7829363-7855173	0.028761067	0.002988757
Pde6b	chr5:108817391-108860761	0.028744833	0
Olfr127	chr17:38040492-38041464	0.028651933	0
Gm1110	chr9:26687151-26730666	0.028624	0.259294033
Hrg	chr16:22951144-22961732	0.028589533	0.220305333
Zpbp2	chr11:98412410-98419979	0.0285389	0
Irx5	chr8:94881694-94885355	0.0285065	0.618765667
Gm4907	chrX:23469888-23484676	0.028419967	0
Ros1	chr10:51765731-51915050	0.0283512	0
Raet1d	chr10:22081699-22093945	0.028336311	0
Olfr98	chr17:37399677-37400607	0.028327233	0
C2cd4d	chr3:94166365-94168489	0.028265733	0
Smok2a	chr17:13414053-13420524	0.028252167	0
En2	chr5:28492235-28498706	0.028183767	0.185689
Fut7	chr2:25279213-25281893	0.028110267	1.10266
Sftpd	chr14:41985500-41998487	0.0280124	3.05555
Gsdma2	chr11:98508072-98519271	0.028009567	0.04621
AW549542	chr5:120020137-120030367	0.0280026	2.204873
Cd79a	chr7:25682529-25687216	0.0279873	0.180987633
1700027D21Rik	chr10:76025016-76032945	0.0278874	0
4930503E24Rik	chr10:123906129-123961544	0.027837733	0.050020667
Fam155a	chr8:9206009-9771023	0.0278154	0.198924667
Olfr1000	chr2:85448120-85449065	0.027748867	0
Adh6a	chr3:137976249-137994098	0.027640767	0
Tlr11	chr14:50980176-50983338	0.0276269	0
Slc16a8	chr15:79081445-79085178	0.027612833	0.3156546
Serpina3c	chr12:105385116-105392082	0.027555267	0
Prr22	chr17:56909698-56911557	0.0274225	0.999845
Hsd3b3	chr3:98545398-98567051	0.0272234	0.161690667
Slc26a5	chr5:21316472-21371422	0.027219667	0
Kcnma1	chr14:24117915-24823427	0.0271188	0.79561
Grin2d	chr7:53087852-53122051	0.027032667	1.834090833
Slc25a18	chr6:120723785-120744000	0.027019467	2.417626
Ppm1j	chr3:104583973-104588935	0.027007667	0.018599
6330512M04Rik	chr7:149512014-149558164	0.0270048	0.056376333
Pax8	chr2:24276079-24331086	0.0269807	1.033457667
Rpl3l	chr17:24864773-24873094	0.026903167	0
Mfng	chr15:78586312-78603875	0.026881567	7.062353333
D630039A03Rik	chr4:57921255-57929136	0.026818433	2.686946667
Gm14496	chr2:181725930-181735792	0.026715467	0
Bcl2a1a	chr9:88851757-88857254	0.026680933	0
4930433N12Rik	chr9:3190268-3199813	0.026673533	0
Hsd3b1	chr3:98656119-98663717	0.026586833	0
Crisp3	chr17:40358725-40379207	0.0265602	0
Myod1	chr7:53631843-53634462	0.026554467	0
1700003D09Rik	chr11:98212031-98219597	0.026515133	0
Vmn2r33	chr7:7503677-7519497	0.0264563	0

Gm2115	chr7:91677463-91726849	0.026409867	1.561403333
Tm6sf1	chr7:89003907-89028954	0.026390203	0.467240227
Gm10408	chr14:3555026-3564989	0.026299733	0.1957517
Gm10408	chr14:3794429-3804392	0.026299733	0.147375333
Samd3	chr10:25949512-25991978	0.026235267	0
Gm11562	chr11:99480911-99481718	0.026189033	0.174289667
Tubb1	chr2:174276195-174283383	0.026138133	0.112517
Hif3a	chr7:17616341-17647776	0.026032967	0.466513333
Gm13277	chr4:88433880-88435342	0.025994333	0.193397033
G630090E17Rik	chr10:39666717-39679959	0.025942267	6.52E-09
Ccdc110	chr8:47020002-47029499	0.025874967	0
Ecm2	chr13:49600178-49628158	0.0257833	0.016586633
9130404H23Rik	chr17:66904591-66943962	0.025680833	0
Dnahc1	chr14:32073560-32137082	0.025661833	0.575237533
P2ry6	chr7:108086147-108112880	0.025574267	0
Slc5a8	chr10:88348736-88392260	0.025571	1.69876
Acta1	chr8:126415666-126418636	0.025560933	0.41262
Ltbp2	chr12:86124161-86217445	0.025512233	0.798903333
Adamts8	chr9:30750147-30770443	0.025512033	0.213357667
Sspo	chr6:48398227-48451249	0.025454533	5.859836667
4930519G04Rik	chr5:115303722-115333888	0.025389583	0.008787033
Sec14l3	chr11:3964855-3978993	0.0252196	3.947894767
Gm17830	chr17:49443803-49452285	0.025189	0
Ctla2a	chr13:61035515-61037986	0.025018233	0.011233867
4833422F24Rik	chr2:165220949-165225894	0.0250029	0
Car9	chr4:43519897-43526597	0.02496	0.827496667
AA792892	chr5:94806364-94813359	0.0249248	0
Grm1	chr10:10405856-10802129	0.024897133	0.55315
Slit1	chr19:41674746-41818346	0.024864567	0.918594333
Cx3cr1	chr9:119957810-119977400	0.024808733	0
Rtn4r	chr16:18127798-18152501	0.0245077	0.050632
Prss43	chr9:110729193-110734008	0.0244977	0
Raet1a	chr10:21878414-22093945	0.024481933	0
Krt28	chr11:99226320-99236217	0.0244415	0
Cml2	chr6:85815415-85819131	0.0243999	0.045233433
C130026I21Rik	chr1:85242918-85267141	0.024317167	0
C130050O18Rik	chr5:139882340-139892046	0.0243067	0.318414667
Zbtb46	chr2:181125590-181194131	0.0241989	0.425836667
Zic4	chr9:91263809-91284186	0.024179	0
Slc22a20	chr19:5970233-5986143	0.0241735	0.066589
Syt8	chr7:149620881-149626303	0.024139433	0
Vmn2r85	chr10:129855316-129866668	0.0240747	0
Tmem140	chr6:34813145-34824946	0.023943149	1.423493369
Irf8	chr8:123260275-123280592	0.023887367	0.300456667
Bard1	chr1:71074108-71149546	0.023867667	0.129547667
Mybpc3	chr2:90958300-90976673	0.023798467	0.100452333
Syt4	chr18:31597461-31607069	0.023652567	0
9330175E14Rik	chr8:96957026-96959003	0.023539433	0.0211486
Sox14	chr9:99774524-99776589	0.023533467	0.0151393
Edar	chr10:58063535-58138444	0.0235024	0
	10-Mar chr15:26238826-26339328	0.023380933	0
Scarf1	chr11:75327042-75340082	0.023378133	0

Kctd8	chr5:69500523-69732948	0.023334467	0.324382567
Prrxl1	chr14:33413112-33462432	0.0233286	0
Tspan33	chr6:29644255-29668558	0.0233164	0.933962333
Ceacam20	chr7:20550760-20576460	0.023282333	0
Vmn2r36	chr7:8557271-8583081	0.0232717	0
Jdp2	chr12:86940054-86980828	0.023168833	0
Arl5c	chr11:97850893-97857487	0.0231386	0
A630055G03Rik	chr16:10835151-10843328	0.023109433	0.305007333
Art3	chr5:92760866-92843653	0.0231044	3.15778
AU015228	chr2:129926129-129929111	0.023102767	0.0214225
Igj	chr5:88948833-88956922	0.023073167	0
Zfp345	chr2:150296726-150310799	0.022934833	0.0134767
A630019I02Rik	chr13:93864787-93868923	0.022830373	0.080248667
Als2cr11	chr1:59107349-59151744	0.0227248	0
Ap3b2	chr7:88605284-88638811	0.022678833	1.226271333
Pou3f1	chr4:124334888-124337899	0.022318	0
Adam12	chr7:141074882-141416780	0.0222121	10.54152667
Pla2g2c	chr4:138281239-138300490	0.022201667	0
Krtap1-4	chr11:99443862-99444991	0.0221911	0
Camkv	chr9:107838250-107852022	0.022159767	0
Prdm5	chr6:65728955-65886371	0.022137	2.007708333
Snap91	chr9:86659238-86775207	0.022101533	0.093670667
A730008H23Rik	chr1:90161402-90174132	0.021789028	1.72278158
Lipi	chr16:75540758-75586306	0.021784133	0
Gadl1	chr9:115818572-115985294	0.021762567	1.770366667
Opcml	chr9:27598853-28732633	0.021621933	0.077703333
Gm216	chr1:74408681-74415895	0.021565233	1.00987
Idi2	chr13:8952108-8960181	0.021472667	0.777831333
BC051070	chr3:106190301-106209100	0.021440133	0
AI593442	chr9:52481146-52487534	0.0213944	6.494496667
Nkx6-2	chr7:146765274-146768696	0.0213752	0.308954
BC049352	chr9:45003848-45058068	0.021279533	0
Dpp10	chr1:125228714-125942136	0.021213833	1.244604333
Slc22a2	chr17:12777054-12821354	0.0211513	0
A230070E04Rik	chr14:68741808-68749428	0.0211199	0
Dbh	chr2:27021026-27038724	0.021068433	1.047716667
Lct	chr1:130181340-130224895	0.020990233	0.0056473
4930503L19Rik	chr18:70612793-70632134	0.0209773	0.094464333
Gimap8	chr6:48597232-48610874	0.0209336	0
Larp6	chr9:60560927-60586608	0.0208073	0.223177333
Baalc	chr15:38765454-38782810	0.0207381	5.675341
Col22a1	chr15:71628905-71864657	0.020670033	0
Ndc80	chr17:71845439-71876197	0.0204819	1.596701667
BC018473	chr11:116613480-116619197	0.020475633	0.009198
Fcgrt	chr7:52348362-52359192	0.0204577	0.297895333
Syde1	chr10:78047247-78054709	0.020309333	0.036493
Akap6	chr12:53800369-54252002	0.0202796	0.310038
Olfr157	chr4:43847623-43849389	0.0200895	0.172959
Tmem72	chr6:116642742-116666776	0.020003833	0
Sult1d1	chr5:87983674-87998031	0.019987833	0.295742333
Proz	chr8:13060907-13075006	0.0199513	0.753883
Ctgf	chr10:24315247-24318488	0.019914867	1.028183333

Gm14461	chr2:78077703-78142387	0.019910333	0
Layn	chr9:50864884-50885199	0.0198345	1.087016667
Krt33a	chr11:99872512-99877526	0.0198124	0.097679767
Gipr	chr7:19742473-19751476	0.019759267	0.021264467
Wfdc8	chr2:164422712-164439126	0.0197343	0.0212376
Rgs9bp	chr7:36364012-36370601	0.019598267	0
Slc6a19	chr13:73818604-73838143	0.019584267	0.181095
Gpr132	chr12:114089086-114099127	0.019584267	0
Prrt4	chr6:29119229-29129584	0.019516667	0.0192689
Cldn27	chr11:117722065-117726857	0.019415567	0
Nepn	chr10:52111413-52124410	0.019379433	0
Ube2cbp	chr9:86200840-86358523	0.019319533	1.533746667
Slc17a8	chr10:89036764-89083994	0.019224867	1.4994603
Vsig1	chrX:137442146-137474011	0.019213367	0
Popdc3	chr10:45009110-45038256	0.0190487	0.6366031
Kcna7	chr7:52661329-52666752	0.019035233	0.0880083
1700071M16Rik	chr17:43725288-43728458	0.019029293	3.50E-08
Gm13154	chr4:146927385-146959310	0.018956767	0
B3gnt6	chr7:105340924-105347985	0.0189054	0.410764
Rab3c	chr13:110844395-111070414	0.018852667	0.016119497
Fmo6	chr1:164846681-164867356	0.018830633	7.3932
Gm11435	chr11:83325237-83335677	0.018774067	1.48304
Hoxa5	chr6:52151752-52154586	0.018751533	0.016847
Filip1	chr9:79663368-79825689	0.0187405	0
Tlr1	chr5:65316072-65323938	0.018520567	0
Impg1	chr9:80161136-80359045	0.018510967	0.0298816
Kbtbd5	chr9:121686724-121692937	0.018164233	0.150107
9930013L23Rik	chr7:91081366-91235015	0.0181079	0.433439
Gm4307	chr10:99823971-99824881	0.018037167	0
St8sia4	chr1:97484258-97564171	0.018021167	0
Gm4303	chr10:99808605-99809515	0.0180036	0
Spata18	chr5:74042618-74070723	0.017975033	5.305311433
Oprm1	chr10:3308331-3557940	0.0179715	0
Ppef1	chrX:157061026-157157904	0.017948367	0
Gm4312	chr10:99844280-99845194	0.017934633	0
Parvg	chr15:84155149-84173408	0.0178529	0
Ces2d-ps	chr8:107391323-107397982	0.017831467	0.176224
Acsn3	chr7:126904436-126928410	0.017824436	0.0298922
Tlr7	chrX:163742862-163768460	0.017678533	0
Ncan	chr8:72616983-72644743	0.017585433	0.754888333
Mpz	chr1:173080843-173091254	0.017531367	0.063003
Sox10	chr15:78985342-78994920	0.0174401	0
Chrna9	chr5:66358362-66368725	0.017433567	0.219280333
Slc22a7	chr17:46569133-46575426	0.017394767	0.018719833
Ermep	chr4:118848061-118862616	0.0172553	0.680981733
Capn11	chr17:45767152-45796258	0.017242467	0
Nkpd1	chr7:20104079-20110399	0.017165767	1.57332
Grin2b	chr6:135679822-136123529	0.0171373	0
Sycp2	chr2:178080000-178142363	0.017119567	0.013912267
Aqp1	chr6:55286292-55298549	0.017118633	0
Gfap	chr11:102748649-102758514	0.017061733	0
Kbtbd10	chr2:69508176-69522296	0.016995533	0.012922367

Ccr4	chr9:114399433-114405662	0.016939267	0.1002304
Myh2	chr11:66984528-67011019	0.016893033	0.010181533
Rftn1	chr17:50132631-50329822	0.0168412	0.0216682
Podn1	chr8:86649887-86656416	0.0167156	0.137969333
Figl1	chr11:11700290-11708965	0.0165723	0.224836333
Abp1	chr6:48845253-48859186	0.016555667	4.10201
Vwa3a	chr7:127883070-127949054	0.016505733	0.900843333
Lrrc7	chr3:157747402-158225185	0.0164267	0
Cass4	chr2:172219293-172258360	0.0163833	0
Rnf222	chr11:68702054-68708517	0.0163702	0
Abca17	chr17:24401223-24484197	0.016336333	0.012362967
Alx4	chr2:93482590-93521496	0.016333067	0.044991333
Acss3	chr10:106373219-106560720	0.016280233	0
Tyrp1	chr4:80480133-80497622	0.016246267	0
Ankrd5	chr2:136358056-136381590	0.016226867	0.8215179
6030419C18Rik	chr9:58336409-58347549	0.016204267	0.375133333
Ccr5	chr9:124036281-124041922	0.016072233	0.51697
Serpinc1	chr1:162908736-162933145	0.0160215	0.187125
Usp44	chr10:93294299-93320832	0.015954733	0.635691
Gjc2	chr11:58989065-58996715	0.015921767	0
Scg3	chr9:75491172-75531863	0.015768733	0.213623667
Pde6a	chr18:61380152-61449372	0.015674667	0
LOC624759	chr3:158739327-158971044	0.0155522	0
Gm10408	chr14:7010438-7020406	0.015510667	0.1655641
A930006I01Rik	chr2:103178757-103212921	0.0154818	0
Gm4961	chr5:30419493-30424221	0.015474133	10.01584333
Fgf12	chr16:28160183-28753288	0.015356033	0
Ccdc36	chr9:108305963-108330813	0.0153531	0.285471333
Ajap1	chr4:152747329-152856939	0.015278933	0
Mylk3	chr8:87848827-87889223	0.0152629	0
Tshr	chr12:92639432-92778949	0.015239033	0.027382433
Lrp1b	chr2:40452292-42509118	0.015016833	0
Wnt7a	chr6:91313976-91361363	0.014717367	0
Icam5	chr9:20836481-20843480	0.014710533	0
3110035E14Rik	chr1:9591347-9617223	0.014663	8.14715
Vmn1r238	chr18:3122491-3123412	0.0146587	0
Vmn1r3	chr4:3111531-3112452	0.0146587	0
4921539E11Rik	chr4:102903050-102963468	0.0145719	0.083638667
Lilra6	chr7:3859881-3867103	0.014464133	0
Gucy1b3	chr3:81835925-81878633	0.0144324	0
4930581F22Rik	chr9:34924312-34938507	0.014259767	1.008356667
Gm10389	chr15:10530047-10541406	0.014235567	0.01072819
A330093E20Rik	chr18:45843140-46204914	0.0142273	0.394887667
Zfp600	chr4:146124224-146166150	0.0140932	0
Ces4a	chr8:107655699-107674009	0.014060867	0
E2f1	chr2:154385374-154395588	0.0138921	1.21098
Gpr165	chrX:93908806-93914727	0.0136653	0.511494667
Clec4e	chr6:123231806-123239889	0.0135371	0.985133333
Armcx4	chrX:131221057-131232311	0.013470167	0.664782
Slc6a3	chr13:73674194-73716120	0.013447733	1.310683
Galnt5	chr2:57850565-57891582	0.0134268	1.442446667
BC013712	chr4:132338271-132352279	0.013403567	0.0120422

Vmn2r86	chr10:129883254-129892950	0.013374867	0
Vmn2r9	chr5:109271965-109281529	0.013374867	0
Abcb11	chr2:69076338-69180673	0.013342533	0.0059937
Atp1a4	chr1:174153638-174188555	0.013328633	0
Chrn4	chr9:54875962-54896351	0.013324567	0.010267633
Vmn2r15	chr5:109715287-109726575	0.013255733	0
Tmem232	chr17:65605344-65890122	0.013144233	0.037763967
Abcb1a	chr5:8660091-8748570	0.013132067	0.029821067
Vmn2r57	chr7:48655101-48704011	0.013122167	0.933116667
V1rg10	chr5:3000100-3001111	0.013011	0
Vmn2r50	chr7:10622583-10638527	0.012871967	0.004478667
Nrxn2	chr19:6418737-6533217	0.012800733	0.8358794
Catsperb	chr12:102642882-102864219	0.012450367	0
Rpp40	chr13:35986972-35998216	0.012374	1.682453333
Neto1	chr18:86564343-86671289	0.012278467	1.237441667
Nfam1	chr15:82828225-82853568	0.012262333	0
Mertk	chr2:128524732-128627924	0.012190367	0
Gm14124	chr2:150083252-150096036	0.0121016	0
Adrb3	chr8:28336247-28340060	0.012091567	0.232078433
Sp9	chr2:73109982-73113828	0.012007933	0.056076
Gm2002	chr4:42028838-42039327	0.011927245	1.11E-07
Ccdc135	chr8:97579002-97602041	0.0119209	0.556926667
Gbp11	chr5:105752044-105775491	0.011650033	0
Crmp1	chr5:37633318-37683372	0.011576267	0.167153667
Grem2	chr1:176763915-176851950	0.0115351	0.127099667
AU022754	chr15:85411571-85424138	0.011505667	0
9030425E11Rik	chr9:40494046-40592129	0.011495567	0.284539333
Nlrp3	chr11:59356187-59380458	0.011453867	0.213682667
Gm2002	chr4:42668806-42679295	0.011397278	6.13E-08
Zfp872	chr9:21992609-22006567	0.011365967	0.010211567
Gm2002	chr4:42339258-42349747	0.011303124	9.53E-08
Cxcr2	chr1:74200567-74207820	0.011302633	0.166456
Scn4a	chr11:106179906-106210704	0.0112757	0.0834712
Ikzf3	chr11:98326006-98407345	0.011227	0.359380667
Armc3	chr2:19120744-19231861	0.011223133	0.060499333
Chsy3	chr18:59334993-59570990	0.0111047	0
Zfp831	chr2:174469034-174536331	0.011063667	1.218431667
Aldh1l1	chr6:90500841-90549165	0.010875533	0
C630020P19Rik	chr2:143361211-143373573	0.010850233	0.33444
Cpeb1	chr7:88491911-88599644	0.0108283	0.014745767
Insm2	chr12:56699903-56703004	0.010811567	0.235262733
Acnat2	chr4:49392716-49421023	0.010786667	0
H2-Q10	chr17:35607033-35611508	0.0107636	0
Chrna3	chr9:54859149-54874366	0.0107299	0.212082
Cilp2	chr8:72404264-72411291	0.010696833	0
A230056J06Rik	chr13:59681536-59686584	0.0106169	0
Atp1b4	chrX:35669443-35689890	0.010585733	0
Diras2	chr13:52599743-52626205	0.010548667	0.047502333
Iqca	chr1:91938706-92049976	0.0104187	1.49768
Tmem200c	chr17:69186475-69192478	0.0104083	0.280534667
Sspn	chr6:145882666-145913745	0.0103979	0.060201333
Sntg1	chr1:8352741-9289811	0.010237567	0

Mitf	chr6:97757051-97971352	0.0099861	0.109641
Lcp2	chr11:33947200-33992280	0.009960467	0.042877
Esr1	chr10:5342779-5734495	0.0099236	0.343496867
Wfikkn2	chr11:94097265-94103893	0.009822733	0.563640767
Gm12824	chr4:114079328-114287703	0.0097563	0
E130008D07Rik	chr17:43282989-43295240	0.0097435	1.738541867
Tmprss9	chr10:80342560-80362239	0.009634967	0.222944
Cdh17	chr4:11685303-11745052	0.009611267	0.37131
Hmha1	chr10:79479416-79494216	0.0095583	0
Vmn2r32	chr7:7416679-7432684	0.009266923	0.003624133
Vmn2r49	chr7:10561593-10577488	0.009266923	0.003624133
Gm973	chr1:59573107-59691353	0.0092336	0.925266667
Myom2	chr8:15057652-15133419	0.009203033	0
Tnip3	chr6:65540391-65584034	0.008782133	2.272363333
Slc9a5	chr8:107872157-107893781	0.008709067	0.0643744
Vmn2r79	chr7:94144974-94186478	0.008691067	0
Eps8l3	chr3:107680147-107695818	0.008586845	0.325959001
Islr2	chr9:58044103-58052126	0.0085139	0
Ndst3	chr3:123229083-123375310	0.008512033	0.0065592
Ano2	chr6:125640436-125990146	0.0084088	0.852910333
Hc	chr2:34838850-34916961	0.008333267	0.579347667
Ror2	chr13:53204685-53381478	0.008312633	0.184562
Ube1y1	chrY:155155-180667	0.008288367	0
Gm4312	chr10:99798309-99799223	0.008277533	0
Gm4312	chr10:99829132-99830046	0.008277533	0
Rnf17	chr14:57021533-57143868	0.008259167	0
Pcdha5	chr18:37120093-37347311	0.008167713	0.55878003
Slc4a10	chr2:61884571-62164800	0.007853667	0
Flt4	chr11:49423180-49466241	0.0077544	0.872339467
Lrrc3	chr10:77360319-77365281	0.007649333	0.631891333
Rex2	chr4:145850573-145889553	0.007174633	0
Rex2	chr4:146395929-146434908	0.007174633	0
Kctd12b	chrX:150119696-150130823	0.0068168	0.446685667
Col4a1	chr8:11198422-11312826	0.006814867	0.008768133
Ebf3	chr7:144385353-144506128	0.006681	0.024010133
Vmn2r84	chr10:129822855-129831297	0.006678867	0
Vmn2r16	chr5:109759399-109793500	0.0066703	0
Vmn2r35	chr7:7738861-7772578	0.006494607	0
Vmn2r35	chr7:8639867-8851885	0.006494607	0
Apob	chr12:7984482-8023645	0.006372433	0
Gabrb3	chr7:64845903-65084171	0.0059089	0.180172333
Duxbl	chr14:27081743-27088586	0.005820333	0.142928633
Duxbl	chr14:26802490-26809318	0.005788	0.258344333
Cytip	chr2:57981549-58012533	0.005656933	0.1484447
Pira6	chr7:4225744-4234530	0.0056222	0
Grk1	chr8:13405080-13421949	0.005462423	0.000931847
Odz1	chrX:39885569-40627963	0.0053537	0.144391
Vmn2r34	chr7:7624539-7642109	0.0053096	0.0063717
Vmn2r45	chr7:9638310-9655801	0.0053096	0.0063717
Nes	chr3:87775014-87784373	0.005283033	0.180365333
Gm2381	chr7:50072196-50122604	0.005275067	0.019577633
1700110I01Rik	chr14:3262412-3305842	0.005237867	0

1700110I01Rik	chr14:3609810-3650049	0.005237867	0
1700110I01Rik	chr14:3849203-3889441	0.005237867	0
C87977	chr4:143796664-143802920	0.004835867	0.0585783
Hydin	chr8:112790876-113134153	0.004809687	1.447856667
Xcr1	chr9:123761435-123771246	0.0048051	0.0066181
Mageb16-ps1	chrX:140987300-140990782	0.004776267	0
Cgnl1	chr9:71474315-71619409	0.004776033	0.343799
Pi15	chr1:17591981-17621020	0.004655767	0
Gm13278	chr4:88436798-88438260	0.004653616	0.1726653
Lama2	chr10:26701091-27336748	0.0045936	0
Otog	chr7:53496356-53566804	0.004438967	0
Lama1	chr17:68046604-68171985	0.004380567	0.0120668
Vmn2r39	chr7:9147158-9163091	0.004290667	0.004478667
Megf10	chr18:57292743-57457121	0.004279033	0
Vmn2r42	chr7:9927006-9944061	0.003992883	0.002497127
Gdf1	chr8:72839673-72855491	0.003886267	0.022334267
Vmn2r43	chr7:9866726-9882971	0.003874767	0.029097567
Gm5936	chrX:72082534-72088694	0.003851333	0.03095473
Gm5640	chrX:71884457-71890974	0.0038455	0.030908033
Kcna2	chr3:106904484-106917923	0.003838233	0
Vmn2r44	chr7:9744079-9759858	0.0036745	0.003939733
Flnc	chr6:29383152-29411888	0.0034897	0
Pcdh17	chr14:84843369-84936867	0.003361	0.155695
Gm5065	chr7:5302142-5312283	0.003147093	0
Nphs1	chr7:31245076-31273628	0.00286687	0
Vmn2r48	chr7:10512972-10538934	0.002644673	0
Vmn2r37	chr7:8954256-8972357	0.002174333	0.005218537
Tyr	chr7:94575914-94641921	0.00201354	0.004533633
Myh4	chr11:67051530-67073948	0.00179438	0.050288333
Myh1	chr11:67013615-67038077	0.001793453	0.001930073
Mylk4	chr13:32792695-32873648	0.001607423	0
Gm3417	chr17:15164114-15178523	0.001537754	0.000623151
Gm6300	chr3:14363209-14377566	0.00134776	0.005798683
Hbb-b1	chr7:110961041-110962437	0.000172587	0
Btg3	chr16:78360104-78377030	0.000105023	0.000101148
Gm4302	chr10:99808603-99824881	0.00010079	0
Ndufs5	chr4:123389952-123395429	8.91E-05	9.12E-05
Gm14548	chr7:3835813-3849694	7.44E-05	2.49E-05
Pira1	chr7:3788416-3867086	4.65E-05	3.08E-100
Pira7	chr7:3789723-3849722	4.56E-05	3.72E-08
Gm5512	chr10:5917374-5943370	4.29E-05	8.323226667
DXBay18	chrX:70362385-70374599	1.31E-05	3.36E-05
DXBay18	chrX:70382570-70394789	1.29E-05	3.37E-05
Gm3020	chr14:6973740-6991301	3.73E-06	5.58E-08
Gm12669	chr7:144629356-144659663	1.33E-06	5.785526825
Tmem181d-ps	chr17:6635807-6644102	1.29E-06	2.63E-07
Pilra	chr5:138263179-138277506	9.58E-07	0.025809201
Hist1h2ao	chr13:21924930-21925444	8.97E-07	4.658683
Gm3020	chr14:3518337-3535897	8.69E-07	6.11E-08
Hist1h2ao	chr13:21902235-21902749	7.03E-07	4.580341
Ng23	chr17:35162919-35164961	3.08E-07	0.201431667
Gm13272	chr4:88425753-88426564	2.91E-07	1.48E-07

Tmem181d-ps	chr17:6817348-6825643	2.81E-07	1.31E-06
D4Ert617e	chr4:118299008-118304520	7.93E-08	0.978056667
Ugt1a9	chr1:89967353-90116577	7.75E-08	3.53E-09
LOC547349	chr17:35402723-35462354	6.66E-08	3.35E-08
Ugt1a1	chr1:90108533-90116577	5.30E-08	0.398920003
Gm14435	chr2:175790738-175800164	3.98E-08	0.161130801
Gm14435	chr2:175100630-175110056	3.88E-08	0.240886493
Ugt1a10	chr1:89951985-90116577	3.63E-08	2.75E-09
Gm14435	chr2:176320431-176329857	2.39E-08	0.188152959
AB099516	chr15:100183630-100214866	1.22E-08	1.85E-10
Pcdha3	chr18:37105860-37347311	9.53E-09	0.085235
BC024582	chr4:32646654-32658637	9.02E-09	0
Fam151a	chr4:106406519-106420897	8.27E-09	3.75E-08
Pcdha10	chr18:37164973-37347311	8.17E-09	0.0381869
Pcdha1	chr18:37089938-37347311	7.57E-09	0.04470461
Pcdha12	chr18:37179883-37347311	7.01E-09	0.430450016
Pcdha11	chr18:37170511-37347311	7.01E-09	0.074688967
D830015G02Rik	chr14:55587623-55593186	6.72E-09	0
E130218I03Rik	chr4:133799677-133801788	5.57E-09	7.98E-07
Pcdhac1	chr18:37249789-37347311	4.10E-09	0.011170142
Pcdha4	chr18:37112342-37347311	2.95E-09	2.12E-07
Tmem150b	chr7:4658433-4676853	2.38E-09	1.381096
Pcdha2	chr18:37098858-37347314	1.67E-09	0.788416667
9530052E02Rik	chr8:11007849-11054541	1.22E-09	4.76E-11
E330033L03	chr9:57880080-57896804	1.01E-09	2.33E-45
Pcdhac2	chr18:37303622-37347311	8.54E-10	0.235905002
Gm16548	chr1:166078706-166082348	1.70E-10	0.16343
BC090627	chr15:89246835-89260358	1.54E-10	0.514586778
Lctl	chr9:63964953-63985925	6.61E-11	1.31E-07
Gm6537	chr7:29541192-29543983	5.90E-11	0
Gpr17	chr18:32102652-32109290	2.57E-11	0
Gm15350	chr8:12828337-12831919	2.36E-11	0.184757
Gm10390	chr5:120571104-120589272	2.17E-11	0.2167516
8030443G20Rik	chr4:108615447-108644682	1.69E-11	9.23E-10
Gm10432	chr12:101514818-101539118	1.33E-11	0.848623
Gm10684	chr9:44915258-44943689	6.37E-12	0
Apoo-ps	chrX:91612462-91643541	5.90E-12	5.88E-07
Insl3	chr8:74213150-74214476	2.54E-12	0
0610039K10Rik	chr2:163470585-163471536	2.08E-12	0.152382667
Pcdha4-g	chr18:37112394-37999854	1.06E-12	0.138685233
1700001C19Rik	chr17:47549682-47574324	2.12E-13	0.019940033
0610040F04Rik	chr6:108527032-108610928	1.23E-13	7.20E-13
Gm2506	chr4:42028814-42029569	7.98E-14	0.691006333
Gm13306	chr4:42668782-42669537	5.11E-14	0.070343
Gm16793	chr8:36645556-36652074	3.17E-14	0.0193244
4922505G16Rik	chr2:157034285-157105285	6.53E-15	0.34051
lqcj-schip1	chr3:67696141-68430404	5.72E-20	9.92E-17
Tnfsf13	chr11:69496078-69499056	2.53E-34	1.59476
9930021D14Rik	chr17:24610828-24612414	3.67E-53	0.290306667
Gm6793	chr2:75497346-75503813	3.31E-58	1.675466013
1500017E21Rik	chr19:36693907-36763969	4.64E-65	0.95583
4930592A05Rik	chr15:33523635-33583191	6.45E-96	6.50E-105

4833422C13Rik	chr13:91841269-91881477	1.49E-182	2.483651
Gm11149	chr9:49326392-49376130	6.72E-183	2.04E-69
Mir1962	chr7:142757844-142757965	0	90.382
Snord15b	chr7:106628072-106628217	0	88.4732
Mir1961	chr5:93217476-93217588	0	60.5421
Mir1b	chr18:10785443-10785565	0	53.05
Fam183b	chr11:58606303-58615462	0	51.83339667
Rnu11	chr4:131825993-131826101	0	44.734
Mir695	chr2:155182552-155182661	0	41.29866667
Mir1966	chr8:108139365-108139473	0	37.34566667
Mir210	chr7:148407282-148407392	0	31.9147
Snora17	chr2:26494709-26494841	0	27.2567
Snora52	chr7:148634701-148634835	0	24.69393333
Snora69	chrX:34622906-34623028	0	17.68336667
Mir467f	chr11:69448901-69449021	0	16.5197
Mir466i	chr13:17839306-17839427	0	15.60633333
1190002F15Rik	chr6:134879109-134901736	0	13.3983
Snora62	chr9:120039551-120039679	0	12.97923333
1700027A23Rik	chr3:105799874-105817564	0	9.831956667
Stfa2	chr16:36404031-36408449	0	9.406
Snora16a	chr4:131865379-131865515	0	9.053533333
Gm10941	chr10:76720517-76721968	0	8.581886667
Apoa1	chr9:46036712-46038549	0	8.130866667
Cacng7	chr7:3336684-3366537	0	7.637
Gm757	chr2:25089995-25092307	0	7.109801333
Hp	chr8:112099027-112103072	0	6.8546
Gm6938	chrX:20889335-20911853	0	6.549136667
Sntn	chr14:14503389-14515662	0	6.353733333
Cml1	chr6:85860147-85865671	0	5.90693
Chodl	chr16:78931192-78951973	0	5.76293
Lsamp	chr16:41533454-42146326	0	5.655053333
Ang	chr14:51710751-51721684	0	5.556917
1700125H03Rik	chr8:70892357-70899609	0	5.506696667
Olfr90	chr17:37222135-37223181	0	5.344277667
Nr0b2	chr4:133109304-133112451	0	5.309646667
Agr3	chr12:36652207-36676317	0	5.264006667
Lhb	chr7:52676315-52677224	0	5.219027
Cited1	chrX:99442775-99447108	0	4.985146667
Adamts2	chr11:50415586-50617551	0	4.778040333
4932443I19Rik	chr8:13705888-13743066	0	4.5266
Sprr2k	chr3:92236503-92237849	0	4.472166667
Zp1	chr19:10988786-10995091	0	4.470379667
Cd177	chr7:25529001-25545330	0	4.4411
Lrrtm1	chr6:77192710-77195511	0	4.384996667
Rmst	chr10:91544490-91627923	0	4.25662
Necab3	chr2:154370140-154384589	0	3.939456
Morn5	chr2:35904992-35935229	0	3.921933333
2210415F13Rik	chr11:58192533-58204043	0	3.8782
Crif1	chr8:73017054-73027980	0	3.866686667
Calcb	chr7:121862156-121866879	0	3.777506667
C4bp	chr1:132532497-132558195	0	3.724256
1600015I10Rik	chr6:48879894-48883686	0	3.704776

Lypd1	chr1:127768618-127808791	0	3.689625333
Speer2	chr16:69857118-69863989	0	3.654323667
Rtn1	chr12:73312738-73509926	0	3.395036667
Akr1c18	chr13:4131872-4149877	0	3.380497667
2610028H24Rik	chr10:75911825-75923963	0	3.366000083
1700003M02Rik	chr4:34658580-34677455	0	3.31942
Dppa5a	chr9:78214860-78216006	0	3.27628
Uts2	chr4:150371205-150375919	0	3.26799
Gm1574	chr13:46369089-46395484	0	3.216326667
Tmem212	chr3:27764986-27795290	0	3.080828667
Zfp474	chr18:52775568-52799484	0	3.02064
Stoml3	chr3:53292714-53311574	0	3.006833333
4922505E12Rik	chr1:184677256-184679311	0	2.826073333
Zcchc12	chrX:33735898-33739153	0	2.784937733
4930479D17Rik	chr6:146605739-146613925	0	2.688472667
Pcsk4	chr10:79784027-79792218	0	2.678548333
Ttc36	chr9:44607482-44611034	0	2.60368
Lgals1	chr15:78757154-78760895	0	2.600846667
2410088K16Rik	chr1:90651464-90652308	0	2.536486667
Olfr1372-ps1	chr11:51968377-51971409	0	2.536136667
Ucp3	chr7:107621499-107634941	0	2.472533333
Ugt3a1	chr15:9209583-9244791	0	2.46458
Vpreb3	chr10:75411056-75412391	0	2.461886
Ccl22	chr8:97269583-97275288	0	2.403203333
1700003F12Rik	chr2:154374639-154375784	0	2.3809
Klrb1c	chr6:128728502-128738659	0	2.36388
B3gnt3	chr8:74215617-74225699	0	2.352787667
Igfals	chr17:25015714-25018953	0	2.3093
Pilrb2	chr5:138307056-138312986	0	2.266753
Dcdc2a	chr13:25147872-25302575	0	2.260300467
Ccdc164	chr5:30607913-30668993	0	2.208596667
Iqgap3	chr3:87885972-87924970	0	2.205340333
Gm5820	chr18:39052109-39130928	0	2.20273
A430084P05Rik	chr11:70604433-70626063	0	2.193953333
Ppp1r32	chr19:10548746-10557387	0	2.18295
Ccdc153	chr9:44048759-44055389	0	2.180413333
Mdk	chr2:91769978-91772439	0	2.150183
1700016P04Rik	chr6:13363336-13365996	0	2.14082
Pilrb1	chr5:138293374-138299277	0	2.10629
Cyp2c65	chr19:39135495-39168438	0	2.097720333
Spink2	chr5:77634132-77640478	0	2.027196667
Naip7	chr13:101053069-101087643	0	2.017697901
Ghrh	chr2:157155231-157172391	0	1.97408
Sult1b1	chr5:87942363-87967220	0	1.958956667
5033406O09Rik	chr12:113180201-113182693	0	1.9489
Hes2	chr4:151532975-151536578	0	1.894438333
Rad51ap2	chr12:11462884-11469734	0	1.808796667
Cdkl1	chr12:70847834-70891694	0	1.79937
Dhh	chr15:98723457-98728971	0	1.767913667
Slc39a4	chr15:76442812-76447282	0	1.75198
Gpx7	chr4:108072821-108079318	0	1.739773333
Cd5	chr19:10792632-10813464	0	1.732291067

Pcsk1	chr13:75227434-75269946	0	1.721214333
4933432I09Rik	chr16:18209778-18213956	0	1.715751433
Gfra4	chr2:130865911-130868824	0	1.714737667
BC030476	chr15:34383066-34403647	0	1.672513333
Ttpa	chr4:19935574-19957932	0	1.66185
Rad51l1	chr12:80398268-80915677	0	1.63245
Olfr834	chr9:18792433-18793372	0	1.61841
Olfr1359	chr13:21794871-21795813	0	1.60887
Scarna13	chr12:106269286-106269559	0	1.601616667
Il2rg	chrX:98459725-98463545	0	1.588141867
Psg20	chr7:19259714-19271341	0	1.568016667
AU021092	chr16:5211911-5222392	0	1.536053333
Ccdc11	chr18:74442753-74519638	0	1.524163333
Gm12830	chr4:114494324-114528771	0	1.5232
St6galnac1	chr11:116626338-116636821	0	1.497276667
Lemd1	chr1:134088012-134153959	0	1.479973333
4932411E22Rik	chr11:89251536-89280262	0	1.475603333
Lix1l	chr3:96405055-96429275	0	1.471240333
Defb6	chr8:19225477-19228209	0	1.465763333
Ak8	chr2:28555680-28668685	0	1.44556
Lpar1	chr4:58448123-58566363	0	1.44503
1810064F22Rik	chr9:22011229-22018304	0	1.44464
Rdh1	chr10:127196818-127205355	0	1.416753333
2310069B03Rik	chr6:82827859-82831847	0	1.409633333
Amn	chr12:112509321-112514637	0	1.408787
Col6a1	chr10:76171536-76188789	0	1.37944
Dpysl4	chr7:146271899-146287690	0	1.36405
T	chr17:8627287-8635361	0	1.319193333
Tnfsf14	chr17:57328914-57333609	0	1.303461667
Gm11981	chr11:6616003-6620040	0	1.299713333
Cdc7	chr5:107393340-107413450	0	1.282369667
Ky	chr9:102408467-102448569	0	1.276644667
2310015B20Rik	chr10:69667414-69682459	0	1.268999667
Slc39a5	chr10:127832987-127838280	0	1.2634686
Mustn1	chr14:31692442-31694796	0	1.259186467
C030019I05Rik	chr11:46049058-46053373	0	1.250656967
D430019H16Rik	chr12:106692065-106731305	0	1.1980651
AI507597	chr4:141170284-141171519	0	1.197946667
Camk1g	chr1:195172539-195196476	0	1.197286733
1700024G13Rik	chr14:33189687-33201559	0	1.19633
9330162B11Rik	chr1:189830454-189832869	0	1.19299
Csn2	chr5:88121648-88128446	0	1.172926667
2700046A07Rik	chr18:62911327-62916001	0	1.151653867
5430437J10Rik	chr15:5446317-5544983	0	1.14585
Nusap1	chr2:119444033-119475896	0	1.14176
Hecw2	chr1:53863717-54251878	0	1.129916547
Acot4	chr12:85379328-85385673	0	1.12924
Tekt1	chr11:72158221-72175382	0	1.1272
Atp1a3	chr7:25763187-25790914	0	1.114213333
0610031O16Rik	chr3:137873680-137902627	0	1.109626667
Slc29a2	chr19:5024005-5031972	0	1.09203
Ankfn1	chr11:89282399-89399869	0	1.06996

Slc2a10	chr2:165329477-165345411	0	1.067
Rtdr1	chr10:74420221-74495331	0	1.06452
Trim43a	chr9:88475873-88483657	0	1.051358933
Fam92b	chr8:122690296-122701369	0	1.049879
Guca2a	chr4:119310336-119312070	0	1.04388
Clvs1	chr4:9196463-9378838	0	1.03365
Ly6g5b	chr17:35250889-35252345	0	1.03206
Syn2	chr6:115084919-115232644	0	1.030757
Grid2	chr6:63206850-64616273	0	1.029943333
Lta	chr17:35340109-35342296	0	1.02959
Aspa	chr11:73118489-73138136	0	1.0182
Grm6	chr11:50664186-50679710	0	0.996404
Dnaic2	chr11:114588725-114619200	0	0.991996667
Nlgn3	chrX:98494517-98516689	0	0.976938667
Rapgef3	chr15:97575200-97598097	0	0.976433333
4930509E16Rik	chr9:72366056-72379665	0	0.97348
Erc61	chrX:99338158-99352430	0	0.970255
Serpine1	chr5:137537375-137548142	0	0.96868
Igfbp6	chr15:101974616-101979943	0	0.96659
Bpifa5	chr2:153988342-153994182	0	0.963046667
Rgs4	chr1:171671607-171677773	0	0.96072
Apoa2	chr1:173155184-173156510	0	0.95893
Mdh1b	chr1:63745400-63776892	0	0.95424
Gpr161	chr1:167225896-167251982	0	0.949524
1700011A15Rik	chr15:101278175-101284340	0	0.947058667
Gm5868	chr5:72972877-72978789	0	0.94639
Amh	chr10:80267992-80270393	0	0.94581
Cd40lg	chrX:54465319-54477219	0	0.945243333
Wnt6	chr1:74818465-74831893	0	0.929280333
Olfr1359	chr13:21765869-21766811	0	0.92189
Folr1	chr7:109006844-109019302	0	0.92115
Chst3	chr10:59644275-59682008	0	0.919976667
Scx	chr15:76287867-76289898	0	0.902677333
1700026L06Rik	chr2:28547599-28555171	0	0.900882333
Olfml2a	chr2:38787499-38816105	0	0.883147
Klrb1f	chr6:128995918-129007489	0	0.878186667
C030034L19Rik	chr3:9403077-9413903	0	0.8671862
AU021034	chr14:78480830-78488814	0	0.858553333
Thnsl2	chr6:71078391-71094370	0	0.853119667
1700047M11Rik	chr1:184230964-184233420	0	0.849756667
4930528F23Rik	chr17:24941326-24976732	0	0.846486667
Gm17384	chr5:63205061-63279557	0	0.844873333
Vnn1	chr10:23614493-23625149	0	0.840186667
Ppp1r14a	chr7:30074338-30078409	0	0.839063333
Efhd1	chr1:89160938-89207366	0	0.82756
Prap1	chr7:147279294-147283102	0	0.827046667
Myt1	chr2:181498036-181562480	0	0.8258
Aadac	chr3:59835709-59844079	0	0.824736667
Stxbp5l	chr16:37107395-37385044	0	0.805203
Hrasls	chr16:29209780-29230616	0	0.80251
Kcnn2	chr18:45719807-45845537	0	0.796811667
Dlx1	chr2:71367501-71372037	0	0.796554433

Krtap4-16	chr11:99711968-99712919	0	0.796093333
Wfdc1	chr8:122190264-122211920	0	0.790796667
Arhgdig	chr17:26336127-26338295	0	0.772071667
Ltb	chr17:35331451-35333250	0	0.769716667
Spn	chr7:134276977-134281331	0	0.764326667
Has2	chr15:56497181-56526101	0	0.756084333
Rimkla	chr4:119137890-119165203	0	0.754325333
Fam113b	chr15:97077537-97216122	0	0.752455333
9330179D12Rik	chr6:127099406-127162437	0	0.74903
Car8	chr4:8068639-8166188	0	0.74887
Cyp2c66	chr19:39188387-39261246	0	0.7445057
Hoxa1	chr6:52105365-52108316	0	0.744236667
Defb3	chr8:19293360-19295339	0	0.740236667
Slc38a3	chr9:107553485-107571299	0	0.723733333
Trhr	chr15:44027680-44067458	0	0.72346
4930523O13Rik	chr15:46267411-46327725	0	0.711213333
Gm581	chr7:52431718-52434967	0	0.705913
Peg10	chr6:4697305-4710516	0	0.7025059
Pdgfrl	chr8:42011586-42076124	0	0.700543333
A330048O09Rik	chr13:48367786-48369253	0	0.699993333
Itih1	chr14:31742365-31756475	0	0.697773333
Arhgef15	chr11:68756655-68770360	0	0.695541
Timeless	chr10:127669118-127689997	0	0.694596
Pon1	chr6:5118089-5143946	0	0.689743333
Cfh	chr1:141982431-142079988	0	0.689363333
Gal	chr19:3409916-3414457	0	0.688256667
Pnmal1	chr7:17545143-17547669	0	0.687263333
Utf1	chr7:147129754-147131011	0	0.685875667
9530026P05Rik	chr6:92890575-93061743	0	0.685806667
Epgn	chr5:91456542-91464238	0	0.683833333
9130008F23Rik	chr17:41012430-41017507	0	0.683249
Zfp641	chr15:98116552-98126514	0	0.67992
1700029J03Rik	chr16:93397059-93459117	0	0.679306667
Mfap5	chr6:122463693-122479305	0	0.67404
5330413P13Rik	chr2:131645741-131673392	0	0.642443833
Cryaa	chr17:31814889-31818669	0	0.639683333
Ccdc60	chr5:116575589-116738994	0	0.633578233
Zfp449	chrX:53599576-53618851	0	0.631088
1700028I16Rik	chr10:82274867-82286987	0	0.630846667
Ccdc121	chr1:183439763-183441582	0	0.62836
lp6k3	chr17:27280915-27304709	0	0.620906033
Wfdc13	chr2:164510606-164513206	0	0.617696667
Selp	chr1:166045394-166080157	0	0.617013333
Cacna1f	chrX:7184228-7212322	0	0.60958
Calb1	chr4:15808410-15833856	0	0.608706667
1700008O03Rik	chr7:51615414-51630400	0	0.604450667
Gtf2a1l	chr17:89067999-89114490	0	0.597976667
4833427G06Rik	chr9:50889417-50910183	0	0.5967
Pik3c2g	chr6:139535771-139917804	0	0.591643333
Mesp2	chr7:86955612-86958317	0	0.5847
Chrna2	chr14:66759796-66771785	0	0.583594667
Fsd1	chr17:56125933-56136304	0	0.580823933

Btk	chrX:131076879-131117679	0	0.579766667
1500002O10Rik	chr2:70327996-70401414	0	0.579213333
Krtap2-4	chr11:99475330-99476160	0	0.575930333
Csnka2ip	chr16:64477636-64478960	0	0.573806667
Dkkl1	chr7:52462894-52467253	0	0.572773
Rfpl4	chr7:5061388-5068513	0	0.571307
Dio2	chr12:91962991-91976878	0	0.562710333
Irgc1	chr7:25216944-25230701	0	0.560323333
Gm4251	chr14:71651079-71670866	0	0.559655667
1600029I14Rik	chr9:99370839-99375170	0	0.559096667
Fhl3	chr4:124377942-124385855	0	0.548199667
Myrip	chr9:120213190-120383952	0	0.546803333
Sstr1	chr12:59312790-59317023	0	0.54489
Al662270	chr11:83037077-83040086	0	0.539216667
Actg2	chr6:83462902-83486245	0	0.533773333
Sec14l2	chr11:3997042-4018732	0	0.5272608
1700108J01Rik	chr14:122629126-122632860	0	0.522106667
4833417C18Rik	chr11:95720130-95722360	0	0.5115333
C2	chr17:34999546-35019045	0	0.50765
Tyms-ps	chr10:87429415-87430762	0	0.506251333
4931408D14Rik	chr19:37332918-37338585	0	0.503890267
Depdc1b	chr13:109106530-109179751	0	0.5026823
Igfbpl1	chr4:45822378-45839699	0	0.501666667
Gabra1	chr11:41944981-41996432	0	0.501362967
2900055J20Rik	chr18:40416615-40417341	0	0.500822
Cdc25c	chr18:34892650-34911187	0	0.499032
Fam40b	chr6:29867012-29909680	0	0.49537
Gm10024	chr10:77174201-77174754	0	0.490746667
Oas1f	chr5:121297375-121307995	0	0.489395667
Flt3	chr5:148142316-148212065	0	0.488793333
Fam81a	chr9:69937116-69989364	0	0.4886839
Krt82	chr15:101371655-101381090	0	0.482926667
Gchfr	chr2:118993523-118998125	0	0.482723
Grm4	chr17:27559332-27640249	0	0.482173667
AU021063	chr15:101051677-101052586	0	0.475768667
4933404M02Rik	chr2:70346875-70378941	0	0.47446
Scn8a	chr15:100701113-100876360	0	0.473621367
Dupd1	chr14:22495793-22533798	0	0.471133
Hepacam	chr9:37175190-37194156	0	0.468353333
Impa2	chr18:67448876-67478495	0	0.467690667
Mafa	chr15:75577272-75578352	0	0.464083333
Nmnat2	chr1:154802230-154966391	0	0.460126667
1700001G11Rik	chr14:66914165-66915966	0	0.45233
4930451C15Rik	chr16:17544557-17561340	0	0.45224
Il7r	chr15:9435913-9459631	0	0.449303333
Fkbp11	chr15:98554798-98558629	0	0.44787
Ctrb1	chr8:114210409-114214910	0	0.447336667
Tcea3	chr4:135803871-135830814	0	0.433363333
Tmem117	chr15:94459615-94926528	0	0.431992333
Cacna2d1	chr5:15440508-15880329	0	0.430396
Tslp	chr18:32975036-32979453	0	0.428566667
Irf4	chr13:30841126-30858796	0	0.42689

Zfp57	chr17:37138107-37147674	0	0.42544
Rnf112	chr11:61261943-61267388	0	0.418893
BC027072	chr17:72092894-72102225	0	0.415377
Cpn1	chr19:44030797-44061010	0	0.415014
Oxct2b	chr4:122793490-122795243	0	0.414437367
1810008118Rik	chr7:72948937-72951109	0	0.408903333
Trpc6	chr9:8544141-8680741	0	0.405243333
Gpr34	chrX:13209894-13217984	0	0.399296667
Kcnk12	chr17:88145160-88197334	0	0.397325333
9230115E21Rik	chr9:51647597-51683990	0	0.3961
Ramp1	chr1:93076398-93121773	0	0.389363333
Tff2	chr17:31278006-31281227	0	0.389246667
Tmem169	chr1:72330946-72349569	0	0.38808
Tpsg1	chr17:25507497-25511387	0	0.383236667
4930564G21Rik	chr10:119183117-119198755	0	0.382787333
1500015O10Rik	chr1:43787446-43799409	0	0.382402
Sgk2	chr2:162813216-162839863	0	0.375691267
Gm12695	chr4:96390577-96451851	0	0.373676667
Prr19	chr7:26086377-26089152	0	0.372783333
AA387883	chr19:52997670-53001421	0	0.363246667
Mtnr1a	chr8:46154563-46173860	0	0.36216
Tex12	chr9:50365252-50369373	0	0.361051333
Olfr239	chr17:33336006-33336954	0	0.360586667
Dazl	chr17:50418718-50432924	0	0.35976
Zbtb32	chr7:31374699-31377961	0	0.358323
Lrrc18	chr14:33804567-33828478	0	0.354276667
Kcnd3	chr3:105255247-105476920	0	0.354028333
Syce1	chr7:147963127-147973753	0	0.34932
T2	chr17:8565260-8615591	0	0.348438667
Gm4461	chr17:33352205-33353296	0	0.347946667
Slc7a15	chr12:8535288-8605872	0	0.34793
Chst9	chr18:15610683-15876555	0	0.3435359
Tube1	chr10:38853828-38870864	0	0.342644
Pmch	chr10:87553816-87555119	0	0.341787667
Gm13582	chr2:60802432-60813208	0	0.341580667
Lax1	chr1:135575605-135586685	0	0.340906667
Dlx1as	chr2:71368694-71375948	0	0.33859
Gpr97	chr8:97541591-97569149	0	0.332156333
Gnat1	chr9:107576804-107581923	0	0.331620333
Tlr9	chr9:106124928-106129207	0	0.330076333
Neil3	chr8:54672220-54724419	0	0.329308
Olfr543	chr7:109625286-109626416	0	0.329139333
Slc45a3	chr1:133859543-133879541	0	0.328774
Tctex1d4	chr4:116799417-116801335	0	0.327477333
Gm19589	chr1:90448091-90458741	0	0.326351667
Tmem200b	chr4:131477685-131479055	0	0.324079
Nanos3	chr8:86697631-86700451	0	0.323600667
Ctnna2	chr6:76831630-77929661	0	0.323500333
Gm4951	chr18:60371730-60407474	0	0.322519333
Kcnq2	chr2:180810283-180869930	0	0.320988
Csf3	chr11:98562626-98564943	0	0.320964667
Il15	chr8:84855522-84926485	0	0.319848667

Prr5l	chr2:101554441-101679137	0	0.318309133
Crispld2	chr8:122516369-122576693	0	0.315020667
Sprr2h	chr3:92189606-92191241	0	0.313915333
C1rl	chr6:124443130-124460661	0	0.3083787
Scara3	chr14:66538231-66572581	0	0.307620333
A630095N17Rik	chr1:75216669-75228668	0	0.307382
Srrm3	chr5:136293975-136350642	0	0.307264333
Pfn4	chr12:4776100-4785072	0	0.306965667
Bmp5	chr9:75623171-75746824	0	0.304746333
Cdh26	chr2:178165311-178222071	0	0.303757667
Il20ra	chr10:19432392-19479859	0	0.299077
Tomm20l	chr12:72212414-72224209	0	0.296234
Prrm1	chr16:10796424-10796916	0	0.295946667
1700120C14Rik	chr15:99082218-99092472	0	0.292575333
Bmp8b	chr4:122782407-122803334	0	0.290931367
Gm6484	chr9:21639953-21641791	0	0.289288667
Gm5544	chr3:97734095-97770941	0	0.288756
Pklr	chr3:88940063-88950516	0	0.286934
Naip5	chr13:100981694-101017291	0	0.284300667
Trim43c	chr9:88734001-88743028	0	0.284172
Tnfsf4	chr1:163325568-163348337	0	0.281050667
2010009K17Rik	chr2:157896099-157917533	0	0.280531667
Mfsd7a	chr5:108870072-108877910	0	0.278123
Nxph1	chr6:8900018-9198578	0	0.27802
Tnni1	chr1:137695997-137707566	0	0.274241333
Galr2	chr11:116142252-116145252	0	0.274112667
Stag3	chr5:138721736-138753621	0	0.272485333
Il31ra	chr13:113313015-113370870	0	0.272440333
Ephb1	chr9:101824457-102257023	0	0.272285667
Gjd3	chr11:98843493-98844330	0	0.268832667
E130201H02Rik	chr7:127741138-127741989	0	0.267746
Rp1	chr1:4280926-4399322	0	0.267652
Gm15217	chr14:46999198-47003281	0	0.266186
Jakmip3	chr7:146132432-146269875	0	0.265276333
St6galnac6	chr2:32455228-32476324	0	0.264895
1700125H20Rik	chr11:84984597-84994656	0	0.263904
Gm14827	chrX:91688070-91693066	0	0.263357
Cela1	chr15:100504852-100518351	0	0.263195667
Rpp25	chr9:57351908-57353254	0	0.262325
Dusp27	chr1:168028278-168058029	0	0.258865333
Parvb	chr15:84062472-84146039	0	0.2586982
2610021K21Rik	chr12:100955740-101121652	0	0.256814
Fgf18	chr11:33017430-33047400	0	0.256812667
Tinag	chr9:76799504-76893588	0	0.255753
Cd207	chr6:83621200-83627851	0	0.255321667
St6galnac4	chr2:32443009-32455994	0	0.253922533
Wdr38	chr2:38853828-38857104	0	0.253803667
Tmem91	chr7:26454158-26460185	0	0.253082333
1700031A10Rik	chr17:37060736-37070377	0	0.252008
Cd300e	chr11:114913230-114923352	0	0.251476
Slc46a1	chr11:78279202-78285447	0	0.251233
Poln	chr5:34349846-34512097	0	0.250372667

Ctse	chr1:133534890-133572084	0	0.249955667
Kcne2	chr16:92292633-92298378	0	0.249359333
4933429K18Rik	chr19:45801044-45805048	0	0.244259
Uox	chr3:146260112-146294447	0	0.240769667
Pabpn1l	chr8:125143370-125146635	0	0.240584333
1700061J05Rik	chr15:78208829-78226342	0	0.239847
Armcx6	chrX:131282993-131285958	0	0.239755
Insc	chr7:121889279-121993894	0	0.239024
Tcte1	chr17:45660382-45679626	0	0.237601
Noxa1	chr2:24941189-24950725	0	0.235855667
D830046C22Rik	chr5:139853650-139856007	0	0.235439667
Serpib3d	chr1:108974769-108980057	0	0.235261333
Foxn4	chr5:114704172-114723770	0	0.234014667
Catsper3	chr13:55885939-55910361	0	0.231933667
Olfr55	chr17:33313360-33314308	0	0.230776
AI848285	chr15:82037381-82043245	0	0.229043
2210416O15Rik	chr11:87911559-87913609	0	0.228492767
C1ql1	chr11:102800577-102807775	0	0.227324333
Ctrc	chr4:141394154-141402274	0	0.225628
Pgr	chr9:8899832-8968611	0	0.224807
Hhipl1	chr12:109544479-109566510	0	0.224721667
Trim43b	chr9:88979461-88987673	0	0.224515567
Adamts15	chr9:30706739-30730037	0	0.224006833
1700001C02Rik	chr5:30768449-30786460	0	0.223877333
Trpv5	chr6:41602768-41630722	0	0.223248333
E330013P06	chr18:61805531-61825192	0	0.222693
Lgals2	chr15:78681289-78685959	0	0.220698667
Hpn	chr7:31883743-31900309	0	0.217833
Atf7ip2	chr16:10192998-10243144	0	0.217761333
Gm933	chr16:32804973-32810532	0	0.217217333
Actl7a	chr4:56756293-56757797	0	0.217044
Nobox	chr6:43253672-43259553	0	0.216928333
Naip6	chr13:101051075-101086571	0	0.216894093
2410007B07Rik	chr3:75451362-75459653	0	0.215789667
Bbox1	chr2:110105239-110145882	0	0.212816067
Adamtsl5	chr10:79803460-79811191	0	0.210906
4930417O13Rik	chr6:125215542-125223795	0	0.209744
Gm101	chr1:121820095-121891787	0	0.207475667
Lrch2	chrX:143906236-143988624	0	0.20739
Samsn1	chr16:75859038-75909511	0	0.206121333
1700029H14Rik	chr8:13550732-13562448	0	0.204733667
Serpinf2	chr11:75245237-75253003	0	0.203667
Ttc29	chr8:80737240-80918225	0	0.200589667
Vmn1r90	chr7:15146590-15147520	0	0.199714667
Efcab6	chr15:83697141-83895779	0	0.199002667
Osm	chr11:4136787-4141029	0	0.198589333
Cyp4a32	chr4:115273542-115294971	0	0.197965667
Ccdc147	chr19:48012201-48109869	0	0.197062333
Gpr110	chr17:43407295-43461355	0	0.196074333
Ribc2	chr15:84962528-84974999	0	0.194762667
Pcnx12	chr8:128275407-128422193	0	0.194511
Vmn1r48	chr6:89985926-89986835	0	0.190357667

Sfrp2	chr3:83570242-83578236	0	0.190138
4931430N09Rik	chr6:118830175-118835561	0	0.189176667
Gm19395	chr10:53000075-53003493	0	0.188161667
Gm10046	chr7:28550691-28555991	0	0.1874425
Gm11570	chr11:99846016-99847907	0	0.187078567
BC100530	chr16:36359467-36367656	0	0.184498667
Gm4489	chr10:121556752-121567614	0	0.181341
Gm16677	chr14:69947763-69955194	0	0.180757333
Isl2	chr9:55388955-55393985	0	0.179965867
Gm10863	chr15:78996495-79046831	0	0.179348
Lrp2	chr2:69262391-69424124	0	0.178565333
Olfr315	chr11:58591590-58592588	0	0.178236333
Fmo4	chr1:164724013-164742680	0	0.178086667
Ascl4	chr10:85391235-85392392	0	0.17764
Sh3tc2	chr18:62112728-62175373	0	0.177594333
Dach2	chrX:110411864-110949995	0	0.177204333
Pou3f2	chr4:22409241-22415513	0	0.176021
Ces2c	chr8:107370967-107378382	0	0.175622667
Gm10104	chr8:22204716-22205680	0	0.174502333
1700029J11Rik	chr2:172298053-172299816	0	0.173688333
1700126H18Rik	chr5:66557845-66582574	0	0.173605333
Gm14850	chr8:22675857-22676822	0	0.173605333
Anxa10	chr8:64536317-64601915	0	0.172781667
Acot5	chr12:85410274-85416969	0	0.171204667
Fbxo15	chr18:85104416-85150784	0	0.171141
Gm4763	chr7:25507512-25509309	0	0.170698
Slc15a1	chr14:121858842-121904476	0	0.169394867
Evc	chr5:37690409-37728120	0	0.166781433
4930502E09Rik	chr11:84642679-84644370	0	0.164851333
1700007P06Rik	chr1:188949016-188951731	0	0.164688
2810011L19Rik	chr12:106574803-106622142	0	0.164539667
Akr1c14	chr13:4058836-4089668	0	0.163343667
Pabpc1l	chr2:163851185-163876274	0	0.162362267
Gm8439	chr4:120261349-120282277	0	0.161163333
Gm11201	chr11:78837098-78848507	0	0.16113
1700034E13Rik	chr18:52805873-52823385	0	0.159592333
Morc1	chr16:48431349-48631018	0	0.158206667
Foxi1	chr11:34104340-34108089	0	0.157179333
Gm1045	chr5:92416498-92424343	0	0.155135
4930511M11Rik	chr5:3657003-3679544	0	0.15499
4930428E07Rik	chr12:39279395-39341108	0	0.154974333
Cdhr2	chr13:54802823-54838023	0	0.154570667
Chrdl2	chr7:107154913-107183236	0	0.154084667
Trim69	chr2:121986435-122004763	0	0.152121333
Ccdc83	chr7:97372387-97413942	0	0.151076667
Hpcal4	chr4:122860746-122871942	0	0.150399333
Cd3d	chr9:44789868-44795135	0	0.150193
Pnck	chrX:70901330-70905409	0	0.149894333
Pfkfb1	chrX:147024463-147078403	0	0.148693667
Gm9758	chr5:14910123-14914889	0	0.148614333
Scgb1c1	chr7:148031463-148032668	0	0.148376667
Khdrbs2	chr1:32229650-32714583	0	0.148203667

Tnxb	chr17:34807479-34856760	0	0.147347
Dydc2	chr14:41862497-41882363	0	0.147132667
1700057K13Rik	chr1:159029278-159038776	0	0.146726667
4933424G05Rik	chr18:15147503-15206496	0	0.146368333
Rsph6a	chr7:19640035-19659796	0	0.146318667
Hcst	chr7:31202730-31204873	0	0.145174667
A730090N16Rik	chr3:65127941-65153351	0	0.143663667
Klk1b27	chr7:51307659-51312081	0	0.142856
Bmp8a	chr4:122989890-123020495	0	0.142847333
Gm17019	chr5:15028949-15033007	0	0.142536333
Gng8	chr7:17477134-17480784	0	0.142178333
Esr2	chr12:77221405-77278246	0	0.142136
Msx1	chr5:38211729-38215824	0	0.140736
Oxct2a	chr4:122999117-123000922	0	0.138425333
Tnnc1	chr14:32021497-32024897	0	0.136534
Clec10a	chr11:69980124-69984338	0	0.136272333
Syce1l	chr8:116167112-116179433	0	0.136065667
Prkcb	chr7:129432638-129777915	0	0.135662667
Hoxa7	chr6:52165622-52168572	0	0.135254667
C1qtnf2	chr11:43287807-43305027	0	0.134443
4930471I20Rik	chr2:155372775-155382666	0	0.13413
Speer4a	chr5:26360809-26366045	0	0.131413333
Zkscan16	chr4:58956499-58971227	0	0.130177
Lhfp15	chr17:28712663-28720538	0	0.129774333
Alpl	chr4:137297646-137352292	0	0.12921
Tmem145	chr7:26091126-26101214	0	0.128884
4930448I18Rik	chr5:50542571-50547331	0	0.128697333
2010317E24Rik	chr2:25227840-25233733	0	0.125407333
LOC171588	chr2:144290911-144292468	0	0.125101333
Usp51	chrX:149441011-149444002	0	0.124078
Pcsk1n	chrX:7496947-7501536	0	0.1234007
Il23r	chr6:67372925-67441849	0	0.123277
Gm16325	chr3:146304895-146314679	0	0.123164667
Dct	chr14:118412011-118451468	0	0.123110667
Fibcd1	chr2:31668809-31701525	0	0.121848
Card11	chr5:141348952-141476550	0	0.1202796
Icos	chr1:61034757-61057164	0	0.119927333
Chst4	chr8:112552974-112563234	0	0.118902667
Abcc2	chr19:43856797-43912708	0	0.118626533
Olfr1411	chr1:94493097-94494069	0	0.117885333
2610318N02Rik	chr16:17113490-17125199	0	0.116914667
Lama4	chr10:38685320-38829994	0	0.116687667
Il17b	chr18:61847588-61852191	0	0.116586667
Tnnc2	chr2:164602661-164605234	0	0.116586667
Fam47e	chr5:93000562-93020310	0	0.115667667
9530036O11Rik	chr5:28793523-29045749	0	0.115513667
C1ql3	chr2:12923513-12932491	0	0.115311
Ttc34	chr4:154230308-154241236	0	0.112701667
Mlana	chr19:29772430-29782796	0	0.112011
F10	chr8:13037307-13056676	0	0.111972667
Crisp1	chr17:40430706-40456156	0	0.111584
Apol6	chr15:76875504-76887538	0	0.1106404

Kcnk4	chr19:7000179-7009005	0	0.110297333
S1pr3	chr13:51503986-51518166	0	0.110016467
Gm10640	chr7:31947376-31955660	0	0.109238
Speer4d	chr5:15124916-15129682	0	0.10873
E230019M04Rik	chrX:136597417-136641336	0	0.108104333
Syne1	chr10:4795848-5009592	0	0.107808
Gm4776	chr1:46077259-46087282	0	0.107765333
Otoa	chr7:128226951-128306603	0	0.107590333
Ucn2	chr9:108888207-108889209	0	0.107517333
4933411K16Rik	chr19:42126717-42128118	0	0.107232
Rtn4rl2	chr2:84712102-84726849	0	0.106693667
Kcnmb1	chr11:33863012-33873638	0	0.105885333
Pramef6	chr4:143484139-143490283	0	0.105378333
Prss55	chr14:64694279-64704226	0	0.104682333
Stfa211	chr16:36156896-36162034	0	0.104464667
Sele	chr1:165978364-165987808	0	0.10393
D630003M21Rik	chr2:158008268-158054958	0	0.102953233
Clnk	chr5:39097698-39267932	0	0.102276333
Fam159b	chr13:105635362-105653973	0	0.102133667
Txndc2	chr17:65986844-65991544	0	0.1021131
Panx3	chr9:37467486-37476807	0	0.102022333
Ebf2	chr14:67852128-68048604	0	0.101938667
Zp3	chr5:136455974-136464494	0	0.101487667
S100a9	chr3:90496554-90499613	0	0.101119667
Prdm8	chr5:98609887-98616467	0	0.100353333
Gm5084	chr13:60306831-60317379	0	0.100326667
Wnt16	chr6:22238226-22248522	0	0.100261067
Tram111	chr3:124023954-124026178	0	0.100215333
Zkscan2	chr7:130622153-130643963	0	0.100176
Clec4d	chr6:123212124-123225286	0	0.100020667
Mecom	chr3:29850217-29912126	0	0.099955333
Nlrp9c	chr7:27149905-27179262	0	0.099935
Wnt3a	chr11:59061543-59104253	0	0.099464333
Cpne9	chr6:113232300-113255565	0	0.098723933
Vmn1r4	chr6:56906506-56907400	0	0.09839
Aanat	chr11:116455000-116458994	0	0.098289667
Htr3a	chr9:48707317-48719204	0	0.096714333
4930486L24Rik	chr13:60943972-60965777	0	0.096599667
Gm14164	chr2:152171404-152201058	0	0.095282
Rbm20	chr19:53751795-53941570	0	0.094865667
Trim67	chr8:127316918-127358604	0	0.094709
Cacna1e	chr1:156239648-156573050	0	0.094444333
5430421F17Rik	chr8:26413121-26416742	0	0.094283
Ptger3	chr3:157229855-157307722	0	0.093029667
Hs6st3	chr14:119537486-120269037	0	0.0927429
Cntn4	chr6:105627738-106649299	0	0.092402667
Ephx2	chr14:66703213-66743337	0	0.092163
Rasl11a	chr5:147656646-147659302	0	0.091992667
Nags	chr11:102006900-102010790	0	0.091981333
Myo18b	chr5:113117895-113325382	0	0.091206333
Olf1504	chr19:13961750-13962698	0	0.091187667
Nox1	chrX:130621684-130646247	0	0.090798667

1700063D05Rik	chr9:41014237-41025710	0	0.090028667
Olfr1039	chr2:85970858-85971818	0	0.089728
1700030M09Rik	chr8:124068287-124071552	0	0.089252
Pcsk2	chr2:143371868-143642018	0	0.089042667
4930452A19Rik	chr17:9943616-9968731	0	0.088584667
1700095B10Rik	chr5:113222311-113230721	0	0.088282333
Fbxo43	chr15:36079814-36094639	0	0.088096667
BC049730	chr7:25494277-25499554	0	0.087592333
F2rl3	chr8:75285778-75287784	0	0.086702333
1700020L24Rik	chr11:83251195-83254734	0	0.085630667
Aspn	chr13:49639811-49662931	0	0.084463333
1700020N18Rik	chr1:93301456-93302606	0	0.083647667
Wisp3	chr10:38870776-38883600	0	0.083549333
Iglon5	chr7:50728276-50745393	0	0.083401
Dysf	chr6:83958583-84161036	0	0.083191333
Klk5	chr7:51097638-51106551	0	0.082746
Kctd16	chr18:40418014-40690838	0	0.0825732
Rims1	chr1:22278502-22812563	0	0.081658333
Zcchc24	chr14:26531125-26588342	0	0.080904667
Duox2	chr2:122106172-122123901	0	0.0808766
Slc1a3	chr15:8584123-8660807	0	0.0802251
Gm13580	chr2:60249581-60250631	0	0.080069667
Klk9	chr7:51047260-51052126	0	0.079783667
1700065I17Rik	chr18:56748001-56754433	0	0.079390333
Snx31	chr15:36433816-36485327	0	0.079104667
2410137F16Rik	chr5:116888730-116915496	0	0.078289833
Gabrb1	chr5:72091254-72528483	0	0.078184267
Gm10416	chr5:110262519-110263161	0	0.077913667
C1s	chr6:124480361-124492377	0	0.077863667
Fabp2	chr3:122598309-122602424	0	0.077376
Agxt	chr1:95031852-95041998	0	0.077219333
Gm20516	chr17:38776391-38782598	0	0.076530667
5430427M07Rik	chr12:92284287-92295075	0	0.076030333
Sh3rf3	chr10:58276106-58601664	0	0.0759233
Irx3	chr8:94322409-94325553	0	0.074800833
Vmn2r63	chr7:50158620-50189159	0	0.074184667
Gfi1	chr5:108145673-108153363	0	0.074094667
Pcp4l1	chr1:173103394-173126399	0	0.073937333
A630076J17Rik	chr3:107033531-107036949	0	0.07381
2410012E07Rik	chr14:71252739-71273761	0	0.073460667
Gm10638	chr8:89269597-89270959	0	0.073228333
Kcnk13	chr12:101202708-101300892	0	0.072769333
Grap	chr11:61466822-61486279	0	0.072659333
Gm7168	chr17:14085379-14087685	0	0.072450667
Trh	chr6:92192055-92194642	0	0.071954667
Grik3	chr4:125168074-125391417	0	0.071565
Itgb3	chr11:104469313-104531785	0	0.071479567
Rhoj	chr12:76409299-76502442	0	0.070953833
Oc90	chr15:65707614-65743849	0	0.070696667
Gla1	chr11:55328314-55421292	0	0.070391333
Il9r	chr11:32088996-32100279	0	0.070361333
Arhgap9	chr10:126760782-126766999	0	0.070166667

Xlr5a	chrX:70352973-70363041	0	0.070085667
5330434G04Rik	chrX:102568332-102587093	0	0.069358
3110021A11Rik	chr6:119798210-119799034	0	0.069351667
Slc10a4	chr5:73398142-73404194	0	0.0690213
Gm15471	chr3:103607051-103612363	0	0.068573333
Fam19a3	chr3:104570322-104580465	0	0.068372667
Plin1	chr7:86866049-86877662	0	0.068081333
Dusp9	chrX:70884779-70888853	0	0.067667667
Atp13a4	chr16:29396123-29544950	0	0.067015333
Gab3	chrX:72233886-72330244	0	0.066649333
Kcnn1	chr8:73365947-73380907	0	0.066643667
Ccdc63	chr5:122558064-122588071	0	0.064908333
Tepp	chr8:97835414-97845228	0	0.064745333
Mfi2	chr16:31878895-31899105	0	0.064663733
Rnf186	chr4:138523026-138524281	0	0.064390333
Speer7-ps1	chr5:15186527-15220414	0	0.064350333
4933407G14Rik	chr10:74912254-74925849	0	0.063961667
Tmem182	chr1:40862445-40912112	0	0.063405667
Trfr2	chr5:138011078-138028709	0	0.061924667
Nr5a1	chr2:38548179-38570062	0	0.061449667
Lefty1	chr1:182865169-182868532	0	0.061075
4933427G17Rik	chr7:128126022-128158301	0	0.060322667
Sp8	chr12:120084801-120091051	0	0.059807
Sox18	chr2:181404541-181406345	0	0.059797667
Aqp7	chr4:40980106-40995169	0	0.059604233
Spag8	chr4:43664600-43666424	0	0.0595287
Tmprss12	chr15:100111267-100123484	0	0.059074667
Sds	chr5:120926555-120933914	0	0.058884667
E130304I02Rik	chr7:36587610-36623093	0	0.058832333
Cyp4f15	chr17:32822603-32840294	0	0.058415333
Clec14a	chr12:59365706-59370245	0	0.058309533
Sh3tc1	chr5:36039828-36071925	0	0.058175
Slc35d3	chr10:19567722-19571265	0	0.058045
BC006965	chr11:112525240-112572670	0	0.057933
AY074887	chr9:54798063-54798761	0	0.057615333
Tmem30c	chr16:57266251-57292964	0	0.057411
Sstr4	chr2:148221112-148222500	0	0.057118333
1700003G13Rik	chr9:45126348-45130162	0	0.056761333
Clca6	chr3:144615449-144638009	0	0.056340067
Ttll6	chr11:95995099-96026766	0	0.056238
Col6a2	chr10:76058500-76086149	0	0.055859
Agap2	chr10:126515962-126530225	0	0.055821333
E330023G01	chr9:98649017-98720506	0	0.055503567
Bend4	chr5:67783385-67819038	0	0.0552427
Ninj2	chr6:120043397-120150356	0	0.054985667
A530099J19Rik	chr13:19819285-19824820	0	0.054783667
Kirrel	chr3:86882513-86978669	0	0.054696367
Cebpe	chr14:55329199-55331011	0	0.054644667
Ldhal6b	chr17:5417322-5418767	0	0.054481333
Adam5	chr8:25843456-25934841	0	0.054401333
Vnn3	chr10:23571267-23589649	0	0.052625
Slc2a3	chr6:122677826-122692763	0	0.052431667

Klk1b11	chr7:51251248-51255245	0	0.05169
A430107P09Rik	chr14:54285614-54288010	0	0.0514495
Adamtsl2	chr2:26934900-26964133	0	0.051376367
Btla	chr16:45224449-45253008	0	0.050063667
Gbgt1	chr2:28352410-28360935	0	0.049931667
D7Erttd143e	chr7:3218784-3221016	0	0.049909333
Klk1b3	chr7:51453560-51457721	0	0.049630667
Mas1	chr17:13033870-13061009	0	0.049593667
6330409D20Rik	chr2:32588140-32596536	0	0.049019667
Ttc9b	chr7:28438942-28441226	0	0.048486
Txndc6	chr9:99356661-99380318	0	0.048330667
Hoxa3	chr6:52119060-52163066	0	0.048148
Zbtb16	chr9:48462401-48644050	0	0.048011667
Rapsn	chr2:90875783-90885886	0	0.047718
Ccl20	chr1:83113340-83115742	0	0.047687667
Cnn1	chr9:21903696-21913665	0	0.047411667
Sftpc	chr14:70920748-70923888	0	0.047375667
C630031E19	chr12:30360494-30371310	0	0.04726
Slc22a30	chr19:8410112-8479595	0	0.047146333
Ppp1r42	chr1:9958706-9999211	0	0.046927333
Lyve1	chr7:117994120-118006467	0	0.046862333
Olf883	chr9:37833392-37834322	0	0.046734333
Ccl1	chr19:4214391-4222615	0	0.046206333
Upb1	chr10:74869778-74902940	0	0.045854667
1700084C01Rik	chr1:171859069-171864784	0	0.045668
Kcns1	chr2:163989354-163996849	0	0.044895333
Tex13	chrX:137342845-137347972	0	0.044202333
Srms	chr2:180940267-180947876	0	0.043181333
Tpte	chr8:23393912-23481890	0	0.043144333
Pcdh9	chr14:93412919-94287951	0	0.042265667
BC049762	chr11:51067152-51076453	0	0.041741333
Pear1	chr3:87553018-87572875	0	0.0413313
lsm1	chr2:139503913-139584317	0	0.041085333
Bsnd	chr4:106156062-106164848	0	0.040301
Syt15	chrX:9462747-9571669	0	0.040291
Vmn2r-ps129	chr17:23141937-23143626	0	0.040154967
Tmprss11c	chr5:86660505-86718333	0	0.039978667
Nlgn1	chr3:25330762-26230831	0	0.039950667
Acpt	chr7:51508456-51512574	0	0.039861667
Mefv	chr16:3707214-3718124	0	0.038946333
Nat8	chr6:85780380-85781884	0	0.038907333
Zfpm1	chr8:124806040-124861147	0	0.0388654
Tnnt1	chr7:4456264-4467577	0	0.038799667
Tmprss15	chr16:78953708-79091342	0	0.038761333
Gm16701	chr1:168904153-168929861	0	0.038693
Olf10	chr11:49131049-49131985	0	0.038623333
6030440G07Rik	chr12:112232607-112252082	0	0.038104
Jph3	chr8:124254458-124314983	0	0.038019
Nkain3	chr4:20170999-20705815	0	0.037668
Acap1	chr11:69695068-69709041	0	0.037469667
Aspdh	chr7:51720804-51723121	0	0.037156667
Scg2	chr1:79431243-79436665	0	0.037032

1700081H04Rik	chr5:119558244-119564552	0	0.036730667
Xlr5b	chrX:70394179-70403738	0	0.036412667
Kcnk10	chr12:99672203-99816150	0	0.036266667
Neur12	chr2:164656229-164659096	0	0.035795333
Gm13023	chr4:143379236-143385488	0	0.035440667
Lzts1	chr8:71659401-71664852	0	0.035326
A430093F15Rik	chr19:10815436-10860533	0	0.035316667
Tmem229a	chr6:24901140-24906125	0	0.035284333
Tgm7	chr2:120919324-120935527	0	0.035169
Clec2l	chr6:38613068-38630864	0	0.034951333
Cnm1	chr19:43514925-43571703	0	0.034882333
D630023F18Rik	chr1:65153886-65169767	0	0.034151333
Slc12a1	chr2:124978335-125055737	0	0.034136667
1700106J16Rik	chr11:88107544-88108763	0	0.033344333
Gm15070	chrX:140891124-140911606	0	0.0333209
Gabrr1	chr4:33219530-33250563	0	0.0329631
Gpr83	chr9:14664697-14673943	0	0.032946933
Rhd	chr4:134420450-134452087	0	0.032645733
Fndc7	chr3:108656595-108692926	0	0.032179133
Gpr142	chr11:114660237-114668059	0	0.031631467
5330437I02Rik	chr18:65857921-65911191	0	0.031328967
5930403L14Rik	chr4:154004799-154010476	0	0.0308178
Adra1d	chr2:131371092-131388021	0	0.030804467
Tspan10	chr11:120303944-120308635	0	0.030294933
Hgd	chr16:37580238-37632112	0	0.030211933
Gm13083	chr4:143204905-143208498	0	0.029847667
4933409G03Rik	chr2:68420469-68454520	0	0.029799067
Cyp2d26	chr15:82620536-82624675	0	0.029664867
Epsti1	chr14:78304045-78402463	0	0.029563267
Cyp1a1	chr9:57535734-57551631	0	0.029301233
Dlk1	chr12:110691032-110701546	0	0.0292196
Vmn2r-ps11	chr3:64436784-64648665	0	0.028954467
Slc6a13	chr6:121250313-121287736	0	0.028951733
Trank1	chr9:111214242-111298279	0	0.028896767
Kcna6	chr6:126658346-126690692	0	0.02889
Gm711	chr2:26789588-26809016	0	0.028670867
Ms4a18	chr19:11071514-11092453	0	0.028632133
Crp	chr1:174628186-174630097	0	0.028608
Uts2r	chr11:121021584-121023287	0	0.0285122
Crtac1	chr19:42357526-42506273	0	0.027961767
Teddm1	chr1:155738775-155740190	0	0.027919133
Clec12a	chr6:129300261-129315321	0	0.0279155
Gsg1	chr6:135187347-135204354	0	0.027754267
Trim10	chr17:37006518-37014778	0	0.027599967
Rasl10b	chr11:83223573-83234540	0	0.027453167
1810018F18Rik	chr19:58773406-58775813	0	0.0271967
Gpr50	chrX:68916941-68921264	0	0.026755567
Sdk2	chr11:113642103-113927265	0	0.026302167
D930032P07Rik	chr19:28752713-28794517	0	0.025440867
Dkk4	chr8:23734514-23738018	0	0.025440867
4933401D09Rik	chr17:15768751-15778066	0	0.0251898
ltgam	chr7:135206153-135262005	0	0.0251252

Glt1d1	chr5:128112631-128187890	0	0.024938167
Hmx3	chr7:138686476-138688445	0	0.024275133
Glp2r	chr11:67519931-67584655	0	0.024087867
Fam69b	chr2:26483976-26492017	0	0.023825233
Vmn2r115	chr17:23480943-23497095	0	0.023758333
Thbs2	chr17:14802506-14831269	0	0.0235542
Calcoco2	chr11:95960639-95973276	0	0.0234244
Timp4	chr6:115195633-115201867	0	0.023288567
Gm1564	chr11:102526901-102543551	0	0.023128133
5031410I06Rik	chr5:26425207-26431854	0	0.023085167
Slc14a2	chr18:78342882-78793689	0	0.023059033
Prdx6b	chr2:80132626-80135515	0	0.023038233
Gm14725	chrX:67798732-67799560	0	0.022729133
Slitrk2	chrX:63902492-63914577	0	0.022563233
D030025P21Rik	chr12:86216751-86220705	0	0.022500733
4930567H17Rik	chrX:67647075-67647915	0	0.022295967
Tph1	chr7:53902500-53927907	0	0.0221028
Lrrc15	chr16:30269387-30283340	0	0.022032367
Sftpa1	chr14:41945076-41949662	0	0.021896333
Prrg3	chrX:69208359-69218067	0	0.021700233
Ptpn20	chr14:34402455-34453940	0	0.021430167
Lix1	chr17:17539649-17596351	0	0.021341233
Slc24a3	chr2:145068346-145467675	0	0.0209445
Pinc	chr1:73437958-73454143	0	0.020803867
Rad51ap1	chr6:126873436-126889573	0	0.020701667
Gpr119	chrX:46021155-46027655	0	0.020673233
Hrh2	chr13:54287497-54317801	0	0.020500067
Aif1l	chr2:31805822-31828962	0	0.020475233
A630075F10Rik	chr2:169886739-169896278	0	0.0204003
Csmd3	chr15:47412183-48623535	0	0.02015829
Plcx3	chr15:4325490-4525579	0	0.0200238
Mia2	chr12:60196786-60210117	0	0.019806
Ccdc158	chr5:93037320-93104153	0	0.019636133
Bicc1	chr10:70387847-70622382	0	0.019453867
Lin28b	chr10:45096424-45190007	0	0.0194313
Vmn2r62	chr7:50019807-50048866	0	0.019318633
Nfe2	chr15:103078648-103085847	0	0.0192625
F12	chr13:55519326-55528163	0	0.019211733
Col19a1	chr1:24264521-24594276	0	0.019023967
Ppp1r3d	chr2:178145911-178149177	0	0.018377933
Slc9a10	chr16:45535378-45607114	0	0.0183355
BC030867	chr11:102110195-102126497	0	0.0182449
C530028O21Rik	chr6:124946737-124953117	0	0.0182207
Dpep2	chr8:108508956-108520323	0	0.018049067
Slc6a7	chr18:61155033-61173853	0	0.0179262
Kcnj4	chr15:79314143-79335671	0	0.0173219
4932412D23Rik	chr16:42725814-42875700	0	0.017271533
Siglece	chr7:50906439-50915531	0	0.017134867
Fer1l4	chr2:155844875-155878683	0	0.017117233
Cldn11	chr3:31048841-31063248	0	0.0168977
Nyx	chrX:13044797-13066439	0	0.016465067
Zfyve28	chr5:34537542-34630973	0	0.016370633

Fam169b	chr7:75418724-75507976	0	0.016314567
Adamts4	chr1:173180552-173190053	0	0.0162178
Necab2	chr8:121970618-121996535	0	0.015947567
Pla1a	chr16:38396202-38433225	0	0.015920433
Adamts13	chr7:89484203-89762958	0	0.0158755
Ttk	chr9:83728295-83765997	0	0.015799767
Rbm44	chr1:93041679-93067372	0	0.015424867
Foxa3	chr7:19598631-19608888	0	0.015354533
Psg26	chr7:19059930-19069498	0	0.015196633
E330013P04Rik	chr19:60220577-60238494	0	0.0150986
Fign	chr2:63810630-63936069	0	0.015097933
Cyp4a31	chr4:115236253-115251620	0	0.015036733
Sox1	chr8:12395518-12399555	0	0.014675133
Gpr150	chr13:76192298-76194444	0	0.014505767
Adora2a	chr10:74779687-74797533	0	0.014474267
Ogn	chr13:49703439-49719869	0	0.014437
Cd200r4	chr16:44820840-44839263	0	0.0142848
1110032F04Rik	chr3:68673507-68676085	0	0.014205267
Slc13a2	chr11:78210777-78235687	0	0.0141762
C730036E19Rik	chr1:152985163-152991225	0	0.0138428
Olf1392	chr11:49106798-49107824	0	0.013744633
Tbx19	chr1:167067983-167090904	0	0.013718567
Tll2	chr19:41158470-41281264	0	0.013473833
Gsdma3	chr11:98487673-98499403	0	0.013276267
Sec14l5	chr16:5147201-5184027	0	0.013203
Amigo2	chr15:97074504-97077718	0	0.013149167
Meox2	chr12:37835132-37906115	0	0.013135067
Kcng2	chr18:80491282-80560993	0	0.012912733
Gm6531	chr8:87675822-87697521	0	0.0128407
Cdh15	chr8:125372273-125391297	0	0.0127754
Csf3r	chr4:125701902-125722219	0	0.012618767
Ly9	chr1:173518743-173537491	0	0.012542467
Kcnc4	chr3:107241220-107261816	0	0.0120005
Gm6313	chr6:148555307-148562831	0	0.011939767
Vmn2r117	chr17:23596641-23616564	0	0.011879167
Slc26a3	chr12:32123165-32158584	0	0.011613833
Gucy1b2	chr14:63011506-63075126	0	0.011405633
Skint4	chr4:111754074-111840681	0	0.011239267
Dchs1	chr7:112901502-112936064	0	0.010757333
L1td1	chr4:98393444-98405177	0	0.010278833
Ernm	chr2:57897525-57905163	0	0.0101591
Trem1	chr17:48371921-48386091	0	0.010047133
G630071F17	chr18:60823063-60831278	0	0.009774333
Slc12a3	chr8:96853107-96890121	0	0.0090952
Atp12a	chr14:56983904-57007388	0	0.0089913
Gm10471	chr5:26408711-26415804	0	0.008965967
Cyp4a10	chr4:115190891-115206254	0	0.0089657
Smarca1	chrX:45162546-45245729	0	0.008748067
Gpr141	chr13:19841550-19916126	0	0.0087128
Nlrp1c-ps	chr11:71055931-71098734	0	0.008648367
Rgag1	chrX:139534145-139538878	0	0.008574133
Ccdc80	chr16:45094165-45128037	0	0.008167867

Dennd2a	chr6:39412376-39507833	0	0.0079612
Sis	chr3:72692481-72770788	0	0.007497267
Ahrr	chr13:74348565-74429757	0	0.007438267
Vmn2r5	chr3:64294742-64311607	0	0.007396267
Gm19434	chr6:135138497-135144977	0	0.0071207
Vmn1r45	chr6:89881643-89890501	0	0.007002967
Zfp536	chr7:38264127-38554771	0	0.006684267
Nid2	chr14:20570478-20631009	0	0.006361167
Prx	chr7:28284342-28305060	0	0.006298867
lpcef1	chr10:3323355-3460176	0	0.006285833
Zfp423	chr8:90185708-90483494	0	0.005978367
Galntl6	chr8:60252848-61390424	0	0.005755333
4930511M06Rik	chr18:57705014-57712051	0	0.005752
Gm4788	chr1:141594495-141677816	0	0.005616267
Sv2b	chr7:82259780-82454148	0	0.005499333
Abca14	chr7:127347477-127468866	0	0.005427167
Gm9696	chr3:59756230-59777516	0	0.004943967
Gm9268	chr7:50274167-50303476	0	0.004761233
Pkd1l2	chr8:119519578-119606349	0	0.004687167
Vmn2r38	chr7:9080031-9103001	0	0.0043337
Spna1	chr1:176102906-176178580	0	0.0041043
Abca4	chr3:121747377-121882979	0	0.003989733
Vmn2r41	chr7:9965778-9989425	0	0.002988757
Wdfy4	chr14:33772732-33998252	0	0.00296478
Vmn1r58	chr7:5360491-5364747	0	0.002842323
Unc80	chr1:66515020-66745722	0	0.00210757
Olfr1360	chr13:21765869-21766849	0	1.75E-05
Gpr39	chr1:127573572-127770438	0	2.88E-08
Msx1as	chr5:38211802-38213990	0	4.44E-09
Sox17	chr1:4481008-4486494	0	0
Oprk1	chr1:5578573-5596214	0	0
Npbwr1	chr1:5903787-5907479	0	0
Fam150a	chr1:6349411-6384812	0	0
Snord87	chr1:9932550-9932624	0	0
Cpa6	chr1:10314807-10710024	0	0
Prdm14	chr1:13103508-13117244	0	0
Msc	chr1:14743428-14746047	0	0
Crisp4	chr1:18105271-18127132	0	0
Defb44-ps	chr1:18200133-18213645	0	0
Defb18	chr1:18226553-18227524	0	0
Defb41	chr1:18241058-18255219	0	0
Gm15386	chr1:18250604-18255219	0	0
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Tfap2b	chr1:19198994-19228815	0	0
Mir206	chr1:20669090-20669163	0	0
Mir133b	chr1:20672849-20672968	0	0
Il17a	chr1:20720985-20724577	0	0
Il17f	chr1:20767229-20774351	0	0
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Khdc1a	chr1:21339757-21342280	0	0
Khdc1c	chr1:21358411-21359824	0	0

4933415F23Rik	chr1:23107312-23109092	0	0
Mir30a	chr1:23279107-23279178	0	0
Mir30c-2	chr1:23298539-23298623	0	0
Col9a1	chr1:24184448-24259577	0	0
Gm20172	chr1:25333248-25334799	0	0
4931408C20Rik	chr1:26738645-26744305	0	0
Gm597	chr1:28832966-28837097	0	0
4931428L18Rik	chr1:31197922-31279501	0	0
Lgsn	chr1:31233279-31261570	0	0
4930521A18Rik	chr1:31279683-31281132	0	0
Gm4850	chr1:31321691-31324906	0	0
Bend6	chr1:33908896-33964466	0	0
Mir5103	chr1:34489965-34490044	0	0
Prss39	chr1:34555274-34559907	0	0
Prss40	chr1:34609176-34617788	0	0
Fam123c	chr1:34636537-34647789	0	0
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Nms	chr1:38995993-39007121	0	0
Snord89	chr1:39605591-39605685	0	0
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1700066B17Rik	chr1:39899272-39904175	0	0
Il1rl1	chr1:40496493-40522259	0	0
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2610017I09Rik	chr1:42705044-42751670	0	0
Pou3f3	chr1:42753990-42757054	0	0
2900092D14Rik	chr1:42757180-42760021	0	0
Gpr45	chr1:43009716-43092294	0	0
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Col3a1	chr1:45368382-45406551	0	0
9330175M20Rik	chr1:51275229-51390623	0	0
Mstn	chr1:53118506-53124923	0	0
1700019A02Rik	chr1:53215420-53244461	0	0
Boll	chr1:55356912-55420313	0	0
Hsfy2	chr1:56692892-56694295	0	0
4930558J18Rik	chr1:57416065-57434388	0	0
Cdk15	chr1:59313750-59409213	0	0
Snord70	chr1:59748801-59748854	0	0
Snord11	chr1:59761651-59761714	0	0
9530026F06Rik	chr1:61435275-61452748	0	0
Adam23	chr1:63492477-63643089	0	0
Dytn	chr1:63669424-63733501	0	0
Gm13749	chr1:64011300-64015573	0	0
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Pth2r	chr1:65357830-65435818	0	0
Crygf	chr1:65973095-65974878	0	0

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Ankar	chr1:72689553-72747138	0	0
Tnp1	chr1:73061648-73062473	0	0
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D530049I02Rik	chr1:73445541-73477353	0	0
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Fev	chr1:74928082-74931982	0	0
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Resp18	chr1:75268776-75274955	0	0
Des	chr1:75356918-75364290	0	0
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Speg	chr1:75371871-75428881	0	0
Pax3	chr1:78097841-78193711	0	0
Mogat1	chr1:78507634-78534748	0	0
Kcne4	chr1:78813523-78816600	0	0
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9430031J16Rik	chr1:81073891-81268226	0	0
Sphkap	chr1:83252355-83404775	0	0
Mir5126	chr1:84692413-84692490	0	0
4933407L21Rik	chr1:87825057-87828331	0	0
Gpr55	chr1:87836111-87857630	0	0
Spata3	chr1:87918516-87926533	0	0
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Snord82	chr1:88252834-88252902	0	0
Nmur1	chr1:88282899-88284716	0	0
1700019O17Rik	chr1:88322903-88324624	0	0
Alpl2	chr1:88983265-88986503	0	0
Alpi	chr1:88994576-88998181	0	0
Akp3	chr1:89021582-89024487	0	0
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Prss56	chr1:89080067-89084979	0	0
Chrng	chr1:89102385-89108410	0	0
3110079O15Rik	chr1:89366838-89372034	0	0
Neu2	chr1:89470601-89494415	0	0
Trpm8	chr1:90203286-90285426	0	0
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Glrp1	chr1:90396445-90406641	0	0
C030007H22Rik	chr1:91256916-91302708	0	0
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Col6a3	chr1:92663434-92740548	0	0
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Olfr1413	chr1:94469701-94470783	0	0
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Aqp12	chr1:94902910-94908846	0	0
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Gm6086	chr1:95887085-95908116	0	0
Neu4	chr1:95917069-95924907	0	0
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4930440C22Rik	chr1:96694018-96699049	0	0
4930598F16Rik	chr1:97597760-97613095	0	0
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4930533P14Rik	chr1:98508633-98559150	0	0
Slco6b1	chr1:98802752-98894137	0	0
Slco6c1	chr1:98956025-99024880	0	0
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Slco6d1	chr1:100317700-100405957	0	0
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Sctr	chr1:121903556-121960109	0	0
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C1ql2	chr1:122237158-122239751	0	0
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Mir128-1	chr1:130098937-130099007	0	0
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Il20	chr1:132803768-132807873	0	0
Il19	chr1:132829232-132835818	0	0
Avpr1b	chr1:133495690-133508577	0	0
Mir135b	chr1:134094664-134094761	0	0
Kiss1	chr1:135223788-135226299	0	0
4931440L10Rik	chr1:136437521-136443599	0	0
Gpr25	chr1:138155490-138157450	0	0
Gm19705	chr1:138579972-138587382	0	0
Gm16880	chr1:138592787-138622305	0	0
Nr5a2	chr1:138740160-138857025	0	0
Mir181a-1	chr1:139863031-139863118	0	0
Mir181b-1	chr1:139863215-139863295	0	0
Atp6v1g3	chr1:140170314-140186039	0	0
Gm5833	chr1:140536671-140578652	0	0
Lhx9	chr1:140721762-140744156	0	0
4933436E23Rik	chr1:141276028-141299429	0	0
F13b	chr1:141398283-141420333	0	0
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Cfhr2	chr1:141706868-141755276	0	0
Kcnt2	chr1:142142833-142506838	0	0
4930590L20Rik	chr1:142466752-142552979	0	0
Fam5c	chr1:148342795-148749602	0	0
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5830403L16Rik	chr1:155696671-155698325	0	0
Zfp648	chr1:156048316-156052804	0	0
4930452N14Rik	chr1:156088650-156104036	0	0

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Nphs2	chr1:158240865-158258166	0	0
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Fam5b	chr1:160175399-160286391	0	0
Astn1	chr1:160292434-160621917	0	0
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Mir1843b	chr1:161270488-161270554	0	0
Tnr	chr1:161453899-161855053	0	0
Mir5117	chr1:162967483-162967574	0	0
Snord47	chr1:162968222-162968287	0	0
4930469G21Rik	chr1:163086973-163089445	0	0
Fasl	chr1:163710822-163718626	0	0
2810442N19Rik	chr1:163935099-163946616	0	0
Mir199a-2	chr1:164147944-164148054	0	0
Mir214	chr1:164153498-164153608	0	0
Myoc	chr1:164569280-164579825	0	0
7420461P10Rik	chr1:164577373-164588350	0	0
4921528O07Rik	chr1:164954432-165015801	0	0
Mettl11b	chr1:165633123-165655363	0	0
Sell	chr1:165992206-166010916	0	0
Dpt	chr1:166726862-166754397	0	0
LOC433374	chr1:166793251-166801569	0	0
Xcl1	chr1:166861778-166865641	0	0
4930568G15Rik	chr1:166996747-167022061	0	0
Mael	chr1:168131515-168168875	0	0
Gm4846	chr1:168413743-168427719	0	0
Gm4847	chr1:168559101-168577824	0	0
Lrrc52	chr1:169375805-169396911	0	0
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Lmx1a	chr1:169619688-169778864	0	0
Rgs5	chr1:171585631-171623657	0	0
Sh2d1b2	chr1:172163001-172181718	0	0
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Fcrla	chr1:172847724-172857714	0	0
Fcgr4	chr1:172949056-172959892	0	0
Slamf1	chr1:173697262-173731315	0	0
Slamf6	chr1:173847667-173873999	0	0
Nhlh1	chr1:173982422-173987727	0	0
Slamf8	chr1:174511507-174520699	0	0
Fcrl6	chr1:174526770-174532682	0	0
Apcs	chr1:174824091-174825185	0	0
Olfr16	chr1:174886898-174887948	0	0
Olfr1408	chr1:175060413-175061346	0	0
Olfr1406	chr1:175113572-175114635	0	0
Olfr218	chr1:175133488-175134430	0	0
Olfr1404	chr1:175145737-175146771	0	0
Fcer1a	chr1:175151401-175157360	0	0
Olfr418-ps1	chr1:175200277-175201268	0	0
Gm11062	chr1:175204591-175207887	0	0

Darc	chr1:175262016-175263634	0	0
Cadm3	chr1:175264384-175297826	0	0
BC094916	chr1:175451441-175466088	0	0
Pydc4	chr1:175522087-175529405	0	0
Pyhin1	chr1:175560989-175578059	0	0
Pydc3	chr1:175603810-175628523	0	0
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Olfr426	chr1:176029590-176030541	0	0
Olfr231	chr1:176047221-176048145	0	0
Olfr230-ps1	chr1:176047222-176048178	0	0
Olfr424	chr1:176066876-176067824	0	0
Olfr421	chr1:176081611-176082661	0	0
Olfr420	chr1:176088852-176089898	0	0
Olfr419	chr1:176180019-176181107	0	0
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Olfr417	chr1:176299049-176299979	0	0
Olfr248	chr1:176321176-176322186	0	0
Olfr414	chr1:176360560-176361515	0	0
Olfr220	chr1:176378755-176379733	0	0
Kmo	chr1:177562323-177590984	0	0
Wdr64	chr1:177628723-177745864	0	0
Mir350	chr1:178702455-178702554	0	0
2310043L19Rik	chr1:179571672-179573074	0	0
Mixl1	chr1:182623178-182627165	0	0
Lefty2	chr1:182823249-182829233	0	0
9130409I23Rik	chr1:182981367-182990798	0	0
Cnih3	chr1:183282758-183390772	0	0
Vmn1r1	chr1:184087308-184088229	0	0
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4930488B22Rik	chr1:186536375-186542868	0	0
Hlx	chr1:186551023-186556372	0	0
Mosc1	chr1:186610645-186635192	0	0
Mir1981	chr1:186646285-186646367	0	0
Snora36b	chr1:187066804-187066917	0	0
Mir664	chr1:187066853-187066922	0	0
Mir194-1	chr1:187137197-187137264	0	0
Mir215	chr1:187137459-187137570	0	0
Gm2061	chr1:187270994-187279447	0	0
5033404E19Rik	chr1:187321184-187321893	0	0
D1Pas1	chr1:188791294-188794506	0	0
Kcnk2	chr1:191031808-191168071	0	0
Mir3473c	chr1:193822434-193822515	0	0
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Mir205	chr1:195333656-195333724	0	0
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Mir29b-2	chr1:196863233-196863314	0	0
Mir29c	chr1:196863740-196863828	0	0
Vip	chr10:4698926-4707323	0	0

Myct1	chr10:4739751-4752813	0	0
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B020014A21Rik	chr10:7213347-7221452	0	0
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Gm6150	chr10:9404519-9411707	0	0
Gm5177	chr10:10325742-10336111	0	0
4930567K20Rik	chr10:10470843-10477929	0	0
1700016L04Rik	chr10:14425414-14478825	0	0
Nmbr	chr10:14480094-14490362	0	0
Olig3	chr10:19076344-19078410	0	0
ll22ra2	chr10:19341833-19354487	0	0
Pde7b	chr10:20117809-20444874	0	0
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1700020N01Rik	chr10:21312950-21342181	0	0
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H60b	chr10:21993279-22008654	0	0
C920009B18Rik	chr10:22026525-22032748	0	0
Tcf21	chr10:22537078-22539934	0	0
Snord100	chr10:23505559-23505627	0	0
Taar1	chr10:23640211-23641210	0	0
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Taar3	chr10:23669363-23670395	0	0
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Taar5	chr10:23690511-23691525	0	0
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Taar7a	chr10:23712210-23713287	0	0
Taar7b	chr10:23719744-23720821	0	0
Taar7d	chr10:23747027-23748104	0	0
Taar7e	chr10:23757419-23758496	0	0
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Taar8a	chr10:23796305-23797340	0	0
Taar8b	chr10:23811065-23812100	0	0
Taar8c	chr10:23820648-23821757	0	0
Taar9	chr10:23828293-23829340	0	0
2010003K15Rik	chr10:25247748-25256078	0	0
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Gm8709	chr10:26393251-26394457	0	0
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Rspo3	chr10:29172912-29255673	0	0
Hey2	chr10:30552164-30562589	0	0
Nkain2	chr10:31409124-32609721	0	0
Trdn	chr10:32803288-33196515	0	0
D830005E20Rik	chr10:32942150-32976163	0	0
Clvs2	chr10:33232139-33344406	0	0
Gm4794	chr10:33486229-33501921	0	0
Sult3a1	chr10:33577527-33599281	0	0
Bet3l	chr10:33757402-33829621	0	0
Fam26d	chr10:33758589-33764119	0	0
Fam26f	chr10:33845872-33847778	0	0
Rfpl4b	chr10:38540346-38541585	0	0
AI317395	chr10:39721378-39745074	0	0

Slc22a16	chr10:40290167-40323938
9030224M15Rik	chr10:40403087-40530889
Gpr6	chr10:40790298-40791390
5730435O14Rik	chr10:41287821-41296282
Nr2e1	chr10:42281776-42303394
Speer5-ps1	chr10:43890252-43939391
Mir1929	chr10:44079481-44079574
Bves	chr10:45055567-45089514
D030045P18Rik	chr10:45527509-45571824
C130030K03Rik	chr10:48813486-48815649
Grik2	chr10:48819268-49508560
Sim1	chr10:50615456-50708958
Fam162b	chr10:51305255-51310266
Gprc6a	chr10:51334628-51351264
Rfx6	chr10:51397565-51450235
4933411G06Rik	chr10:51475979-51477000
Vgll2	chr10:51742491-51748277
Gm16998	chr10:53795727-53800887
4933403O03Rik	chr10:57692726-57694761
Dux	chr10:57693398-57695423
Gm4981	chr10:57697595-57699408
BB019430	chr10:58159492-58167025
Pla2g12b	chr10:58866432-58884724
Oit3	chr10:58885707-58904527
Gm17455	chr10:59862473-59866306
4930565A17	chr10:60494050-60500828
Tbata	chr10:60634711-60651589
Prf1	chr10:60760583-60767011
Npffr1	chr10:61058231-61089133
Mir5108	chr10:61237484-61237569
Col13a1	chr10:61301245-61441856
Neurog3	chr10:61595837-61597511
Hkdc1	chr10:61845884-61885205
Atoh7	chr10:62562903-62563353
Mypn	chr10:62578542-62666700
Ctnna3	chr10:62892845-64466415
Lrrtm3	chr10:63391244-63553003
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Rtkn2	chr10:67442345-67506612
4930545H06Rik	chr10:67781812-67783890
Tmem26	chr10:68186493-68245402
C730027H18Rik	chr10:70631484-70644788
1700049L16Rik	chr10:71442632-71443438
Gm5779	chr10:74814799-74815706
Ggt1	chr10:75036337-75048927
Ggt5	chr10:75052125-75079713
Gstt4	chr10:75277688-75285288
Gm5134	chr10:75417258-75472334
Slc5a4b	chr10:75521365-75573763
Mir678	chr10:75670070-75670154
Ftcd	chr10:76038392-76053083
Gm10787	chr10:76474739-76484959



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Krtap12-1	chr10:77183330-77184001	0	0
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Gm2696	chr10:77277426-77278149	0	0
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S1pr4	chr10:80960489-80962882	0	0
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Gm4792	chr10:93756407-93761448	0	0
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Mir3966	chr10:96886111-96886196	0	0

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Myf5	chr10:106919963-106923190	0	0
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1700020G17Rik	chr10:110238229-110333563	0	0
4933440J02Rik	chr10:111023774-111031329	0	0
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1700030O20Rik	chr10:116160122-116166233	0	0
9530003J23Rik	chr10:116670808-116675737	0	0
4933411E08Rik	chr10:117362514-117385363	0	0
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Fam19a2	chr10:122701131-123178260	0	0
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Rdh18-ps	chr10:127261271-127283621	0	0
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Hsd17b6	chr10:127427991-127444564	0	0
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Olf827	chr10:129647215-129648184	0	0
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1700046C09Rik	chr11:14460338-14499228	0	0
Pom121I12	chr11:14499242-14500319	0	0
2810442I21Rik	chr11:16836725-16851096	0	0
Fbxo48	chr11:16851412-16854775	0	0
Cnrip1	chr11:16951936-16979375	0	0
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Mir1933	chr11:21244590-21244678	0	0
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4933430M04Rik	chr11:24381908-24469951	0	0
Gm10466	chr11:24621005-24630722	0	0
4933427E13Rik	chr11:25226106-25267137	0	0
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Mir216a	chr11:28657011-28657083	0	0
Mir217	chr11:28663727-28663835	0	0
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Hbq1b	chr11:32186963-32187912	0	0
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Hba-a2	chr11:32196491-32197310	0	0
Hbq1a	chr11:32200068-32200873	0	0
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Sox30	chr11:45793811-45831494	0	0
Itk	chr11:46138651-46203017	0	0
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Prop1	chr11:50764307-50767134	0	0
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9230009I02Rik	chr11:50898588-50905337	0	0
Mir3061	chr11:51940247-51940338	0	0
Il4	chr11:53425962-53432167	0	0
Il13	chr11:53444824-53448204	0	0
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Olfr328	chr11:58364806-58365739	0	0
Olfr224	chr11:58379900-58380845	0	0
Olfr325	chr11:58394338-58395379	0	0
Olfr324	chr11:58410846-58411968	0	0
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Mir5100	chr11:60542164-60542228	0	0
Kcnj12	chr11:60879305-60884633	0	0
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Myocd	chr11:64990071-65083491	0	0
Gm12295	chr11:65091155-65101335	0	0
Mir744	chr11:65548234-65548334	0	0
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Myh8	chr11:67090625-67122135	0	0
Dhrs7c	chr11:67611772-67629504	0	0
Pik3r6	chr11:68316520-68366200	0	0
Ccdc42	chr11:68400538-68411453	0	0
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Olf412	chr11:74178172-74179111	0	0
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Mir684-1	chr11:74879408-74879493	0	0
Mir212	chr11:74986889-74986980	0	0
Mir132	chr11:74987183-74987249	0	0
Mir22	chr11:75277217-75277312	0	0
Mir3971	chr11:75364930-75365013	0	0
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Tmigd1	chr11:76718046-76730088	0	0
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Fndc8	chr11:82705646-82714239	0	0
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Ccl4	chr11:83476085-83478185	0	0
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Lhx1	chr11:84332880-84339036	0	0
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Car4	chr11:84771255-84779556	0	0
Tbx4	chr11:85703564-85729599	0	0
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Mir301	chr11:86926505-86926591	0	0
Mir142	chr11:87570365-87570429	0	0
Mpo	chr11:87607285-87617914	0	0
Lpo	chr11:87619929-87639616	0	0
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Olf462	chr11:87702460-87703396	0	0
Olf463	chr11:87706488-87707424	0	0
Olf464	chr11:87727421-87728505	0	0
Mir378b	chr11:88166274-88166366	0	0

2210409E12Rik	chr11:88833951-88834328	0	0
Gm525	chr11:88935154-88954378	0	0
Nog	chr11:89161951-89163873	0	0
4930405D11Rik	chr11:90666004-90756466	0	0
Kif2b	chr11:91436599-91438869	0	0
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Tmem92	chr11:94638530-94693316	0	0
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Col1a1	chr11:94797583-94813170	0	0
Hils1	chr11:94828974-94829770	0	0
1110035M17Rik	chr11:95561419-95574068	0	0
Phospho1	chr11:95685813-95693454	0	0
Abi3	chr11:95691385-95703790	0	0
Igf2bp1	chr11:95818477-95867258	0	0
Mir3063	chr11:95824605-95824697	0	0
Gip	chr11:95885858-95892142	0	0
Hoxb13	chr11:96055674-96057913	0	0
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Mir196a-1	chr11:96126477-96126579	0	0
Hoxb9	chr11:96132643-96137907	0	0
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Hoxb7	chr11:96147959-96151477	0	0
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Mir10a	chr11:96178478-96178588	0	0
Hoxb1	chr11:96227071-96229567	0	0
Gm11529	chr11:96308212-96325861	0	0
Mir152	chr11:96711706-96711779	0	0
Tbx21	chr11:96959320-96976645	0	0
Stac2	chr11:97897937-97914776	0	0
Mir5119	chr11:98123919-98123976	0	0
Neurod2	chr11:98186730-98190959	0	0
Tcap	chr11:98245124-98246267	0	0
Pnmt	chr11:98247945-98249411	0	0
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Ccr7	chr11:99005512-99016391	0	0
Krt26	chr11:99189797-99199279	0	0
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Krtap1-5	chr11:99441290-99442330	0	0
Krtap1-3	chr11:99451776-99452653	0	0
Krtap4-1	chr11:99488542-99489553	0	0
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Krtap4-7	chr11:99504425-99505403	0	0
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Gm11596	chr11:99653988-99654606	0	0
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Cygb	chr11:116506908-116515627	0	0
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Snord1b	chr11:116535460-116535537	0	0
6030468B19Rik	chr11:117658973-117668622	0	0
Gm11747	chr11:118305513-118316309	0	0
Enpp7	chr11:118849501-118854155	0	0
Mir1932	chr11:119251785-119251875	0	0
Gm11762	chr11:119409943-119430360	0	0
Mir338	chr11:119876078-119876176	0	0
Mir3065	chr11:119876080-119876167	0	0
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Matn3	chr12:8954734-8978834	0	0
1700022H16Rik	chr12:9572041-9577391	0	0
Osr1	chr12:9581247-9588306	0	0
Nt5c1b	chr12:10376776-10396980	0	0
Msgn1	chr12:11215187-11215754	0	0
Gm16497	chr12:14268339-14292490	0	0
4930448C13Rik	chr12:15003194-15057195	0	0
Ntsr2	chr12:16660275-16667042	0	0
Kcnf1	chr12:17178905-17183694	0	0
Mir3066	chr12:17362197-17362280	0	0
Gm17746	chr12:25814038-25817139	0	0
4930480M12Rik	chr12:26896131-26925572	0	0
Allc	chr12:29238619-29267348	0	0
Colec11	chr12:29279037-29308155	0	0
Tpo	chr12:30739525-30817474	0	0
Sntg2	chr12:30859421-31058240	0	0
2310016D03Rik	chr12:31095423-31152223	0	0
Slc26a4	chr12:32204683-32244834	0	0
Efcab10	chr12:34079718-34086134	0	0
Ferd3l	chr12:34613289-34614174	0	0
Prps1l1	chr12:35669432-35671108	0	0
Mir680-3	chr12:35879482-35879569	0	0
9130015A21Rik	chr12:36356962-36379790	0	0
1700108M19Rik	chr12:36934931-36979985	0	0
Mir1938	chr12:40949298-40949398	0	0
Foxg1	chr12:50483869-50487854	0	0
3110039M20Rik	chr12:50490638-50508333	0	0
1810007C17Rik	chr12:50577979-50581849	0	0
Gpr33	chr12:53123990-53129050	0	0
1700031P21Rik	chr12:53700970-53703309	0	0
Mir1892	chr12:55746919-55746999	0	0
Aldoart2	chr12:56666121-56667696	0	0
Gm19990	chr12:57354229-57367368	0	0
E030019B13Rik	chr12:57591414-57630407	0	0

Tcl1b1	chr12:106397913-106404835	0	0
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Tcl1	chr12:106454964-106460947	0	0
Gm2721	chr12:106633065-106641970	0	0
1700121N2ORik	chr12:107680861-107685876	0	0
4933406K04Rik	chr12:107923816-107954534	0	0
4930465M2ORik	chr12:108961952-108973698	0	0
Mir345	chr12:110075182-110075278	0	0
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Mir1906-1	chr12:110782750-110782830	0	0
Mir770	chr12:110801901-110801995	0	0
Mir673	chr12:110810199-110810290	0	0
Mir493	chr12:110818442-110818525	0	0
Mir337	chr12:110823998-110824095	0	0
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Mir665	chr12:110824523-110824617	0	0
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Mir3070b	chr12:110826801-110826890	0	0
Rtl1	chr12:110828378-110833613	0	0
Mir3071	chr12:110833527-110833607	0	0
Mir431	chr12:110828656-110828747	0	0
6430411K18Rik	chr12:110829746-110831063	0	0
Mir433	chr12:110829924-110830048	0	0
Mir127	chr12:110831055-110831125	0	0
Mir434	chr12:110832715-110832809	0	0
Mir432	chr12:110833165-110833240	0	0
Mir136	chr12:110833536-110833598	0	0
Rian	chr12:110842154-110899921	0	0
Mir341	chr12:110849709-110849805	0	0
Mir1188	chr12:110850031-110850151	0	0
Mir370	chr12:110856467-110856546	0	0
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Mir494	chr12:110953527-110953612	0	0
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Mir409	chr12:110981367-110981446	0	0
Mir3072	chr12:110986087-110986170	0	0
3110009F21Rik	chr12:111389863-111396283	0	0
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Mir1247	chr12:111516257-111516339	0	0
Dio3	chr12:111517439-111519307	0	0
A230065H16Rik	chr12:112645019-112650288	0	0
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Mir3073	chr12:113347448-113347533	0	0
Mir203	chr12:113369090-113369166	0	0
A730018C14Rik	chr12:113649233-113661409	0	0
B020018J22Rik	chr12:113666494-113673549	0	0
A530016L24Rik	chr12:113727658-113738138	0	0
Tmem179	chr12:113738394-113749371	0	0
Tex22	chr12:114312712-114327125	0	0
Adam6b	chr12:114727775-114730046	0	0
Adam6a	chr12:114782118-114784625	0	0
Gm10421	chr12:118382995-118389742	0	0
Mir153	chr12:118489289-118489358	0	0
D230030E09Rik	chr12:119756769-119768666	0	0
Abcb5	chr12:120106296-120204894	0	0
Tmem196	chr12:121184434-121257179	0	0
Speer6-ps1	chr13:3148720-3188924	0	0
1700024F13Rik	chr13:3497295-3500639	0	0
Calm5	chr13:3853418-3854007	0	0
Tubal3	chr13:3923940-3934523	0	0
Akr1c19	chr13:4232985-4247605	0	0

Marcks1-ps4	chr13:4247980-4249023	0	0
Akr1c6	chr13:4433588-4456776	0	0
Akr1c20	chr13:4506404-4522579	0	0
Adarb2	chr13:8202154-8759554	0	0
Zp4-ps	chr13:11614318-11617949	0	0
Actn2	chr13:12361693-12432999	0	0
Prl2c4	chr13:12883082-12892325	0	0
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Prl2c5	chr13:13275048-13284107	0	0
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4933412O06Rik	chr13:15873496-15894463	0	0
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4930448F12Rik	chr13:18176780-18192036	0	0
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Vmn1r199	chr13:22474406-22475510	0	0
Vmn1r200	chr13:22486897-22487836	0	0
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Vmn1r202	chr13:22593205-22594114	0	0
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Vmn1r204	chr13:22648069-22648978	0	0
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Vmn1r215	chr13:23167660-23168563	0	0
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Prl8a6	chr13:27524721-27530466	0	0
Prl8a8	chr13:27598940-27605082	0	0
Prl8a9	chr13:27649869-27656473	0	0
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Prl7b1	chr13:27693687-27702451	0	0
Prl7a1	chr13:27725232-27734362	0	0
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Prl7d1	chr13:27800866-27808606	0	0
Prl7c1	chr13:27865363-27872673	0	0
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Nrn1	chr13:36817494-36826323	0	0
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Mirlet7a-1	chr13:48633547-48633641	0	0
Barx1	chr13:48758404-48761876	0	0
Gm906	chr13:50340549-50345677	0	0
2310081J21Rik	chr13:50357183-50358238	0	0
Gm806	chr13:50562675-50570724	0	0
Mir683-1	chr13:50639994-50640103	0	0
Mir683-2	chr13:50696340-50696449	0	0
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Gm8765	chr13:50793697-50798778	0	0
4930518P08Rik	chr13:50848761-50860617	0	0
4921525O09Rik	chr13:52192109-52219529	0	0
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Fgfr4	chr13:55254178-55270120	0	0
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Pfn3	chr13:55516048-55516593	0	0
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Il9	chr13:56580637-56583607	0	0
Trpc7	chr13:56874468-56996949	0	0
Mir874	chr13:58124485-58124561	0	0
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Dmgdh	chr13:94444390-94522778	0	0
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1700024P04Rik	chr13:99754044-99754520	0	0
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4922502H24Rik	chr13:102161825-102167535	0	0
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Mir582	chr13:110114937-110115017	0	0
Mir1904	chr13:110694016-110694096	0	0
Gapt	chr13:111142822-111147380	0	0
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Mir449a	chr13:113827741-113827832	0	0
Gzmk	chr13:113962081-113971105	0	0
4921509O07Rik	chr13:114236495-114293052	0	0
Hspb3	chr13:114453103-114453884	0	0
4930544M13Rik	chr13:115397435-115488030	0	0
Itga1	chr13:115748288-115892172	0	0
Gm6416	chr13:117918831-117924691	0	0
1700003P14Rik	chr13:119344974-119377436	0	0
Fgf10	chr13:119503505-119581380	0	0
Gm10413	chr14:3500819-3509260	0	0
Gm10413	chr14:3740222-3748663	0	0
Fam107a	chr14:9128791-9142290	0	0
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Gm5087	chr14:13989901-14117152	0	0
Synpr	chr14:14117293-14447983	0	0
Olfr720	chr14:15007643-15008594	0	0
Olfr31	chr14:15160626-15161580	0	0
Gm5458	chr14:20413359-20421809	0	0
Myoz1	chr14:21468323-21475762	0	0
Synpo2l	chr14:21478639-21487528	0	0
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Cphx	chr14:26901782-26915608	0	0
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Itih3	chr14:31721759-31736773	0	0
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Snord19	chr14:31829404-31829458	0	0
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Colq	chr14:32336269-32390569	0	0
Msemb	chr14:32955208-32971512	0	0
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Fam170b	chr14:33647147-33649974	0	0
E130203B14Rik	chr14:33669941-33752675	0	0
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Gdf2	chr14:34754224-34760384	0	0
Rbp3	chr14:34767207-34777402	0	0
Gm5460	chr14:34854263-34860167	0	0
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Gprin2	chr14:35007626-35014819	0	0
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Grid1	chr14:35633321-36394301	0	0
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Lrit2	chr14:37881234-37886921	0	0
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Mbl1	chr14:41964744-41972248	0	0
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Ear10	chr14:44500562-44501033	0	0
Ang5	chr14:44534733-44540745	0	0
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Ang6	chr14:44579490-44579934	0	0
Ear2	chr14:44680318-44681196	0	0
Ear3	chr14:44680551-44681022	0	0
4930503E14Rik	chr14:44740831-44749036	0	0
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Gm8267	chr14:45336841-45344662	0	0

Defb43	chr14:63630607-63636925	0	0
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Prss51	chr14:64712532-64716509	0	0
4930471C04Rik	chr14:64718131-64723072	0	0
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Mir3078	chr14:65210021-65210108	0	0
Pnoc	chr14:66019509-66044309	0	0
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Gulo	chr14:66605623-66628047	0	0
Adam2	chr14:66646165-66696570	0	0
Stmn4	chr14:66963211-66980517	0	0
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Adam7	chr14:69115393-69151746	0	0
1700092C10Rik	chr14:69782855-69789900	0	0
Nkx2-6	chr14:69789858-69793597	0	0
Nkx3-1	chr14:69808748-69812715	0	0
Synb	chr14:69908454-69912356	0	0
Pebp4	chr14:70240226-70459693	0	0
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Lgi3	chr14:70930627-70938131	0	0
Fgf17	chr14:71036011-71042075	0	0
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Gm9199	chr14:73425409-73426697	0	0
Cysltr2	chr14:73428934-73448921	0	0
Mir687	chr14:73606569-73606658	0	0
4933402J15Rik	chr14:74755333-74769548	0	0
Gm4278	chr14:75374892-75386911	0	0
Siah3	chr14:75855788-75925948	0	0
Spert	chr14:75982640-75992923	0	0
Gm1587	chr14:78193751-78198775	0	0
Mir1971	chr14:78591179-78591285	0	0
Tnfsf11	chr14:78677252-78707850	0	0
Lect1	chr14:80037496-80061977	0	0
4930452G13Rik	chr14:80102726-80112737	0	0
Mir759	chr14:80138237-80138335	0	0
Pcdh8	chr14:80166578-80171119	0	0
Olfm4	chr14:80400108-80421737	0	0
4930529K09Rik	chr14:86645776-86661849	0	0
4930474H20Rik	chr14:90526697-90669567	0	0
4921530L21Rik	chr14:96280484-96281994	0	0
Klhl1	chr14:96504483-96918253	0	0
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Mir5130	chr14:103381765-103381849	0	0
Ednrb	chr14:104213841-104243390	0	0
4930432J09Rik	chr14:104376844-104426359	0	0

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5430440P10Rik	chr14:105826775-105836933	0	0
4930449E01Rik	chr14:105898004-105904845	0	0
Trim52	chr14:106505414-106508497	0	0
1700128A07Rik	chr14:106816403-106885701	0	0
Slitrk1	chr14:109309205-109313456	0	0
Slitrk5	chr14:112074336-112082357	0	0
4930524C18Rik	chr14:115231186-115260549	0	0
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Mir18	chr14:115443072-115443168	0	0
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Mir19b-1	chr14:115443526-115443613	0	0
Mir92-1	chr14:115443648-115443728	0	0
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4930505G20Rik	chr14:115795772-115808774	0	0
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Zic5	chr14:122858381-122864880	0	0
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1700047G03Rik	chr15:11896816-11899838	0	0
Mir1898	chr15:12101246-12101329	0	0
Cdh6	chr15:12963954-13103394	0	0
Cdh9	chr15:16707855-16786532	0	0
4921515E04Rik	chr15:18007891-18299382	0	0
Cdh10	chr15:18750083-18943989	0	0
Cdh18	chr15:22966217-23404173	0	0
Mir297-1	chr15:27175876-27246498	0	0
Snord123	chr15:32171599-32171687	0	0
9430069I07Rik	chr15:34278805-34287627	0	0
Kcns2	chr15:34767135-34772092	0	0
BC048602	chr15:35236764-35258290	0	0
Mir599	chr15:35590585-35590673	0	0
Mir875	chr15:35590724-35590802	0	0
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Apol11b	chr15:77464380-77473716	0	0
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Snord43	chr15:79913288-79913336	0	0
Cacna1i	chr15:80117667-80228722	0	0
Mir5113	chr15:80770468-80770550	0	0
4930483J18Rik	chr15:81021282-81023187	0	0
Mchr1	chr15:81065928-81069394	0	0
1700029P11Rik	chr15:81810969-81811993	0	0
4930407I10Rik	chr15:81889580-81896968	0	0
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Mir33	chr15:82028551-82028620	0	0
Cenpm	chr15:82064205-82075177	0	0
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Cyp2d11	chr15:82219583-82224452	0	0
Cyp2d10	chr15:82233275-82237624	0	0
Cyp2d9	chr15:82282806-82287257	0	0
Cyp2d12	chr15:82385527-82389843	0	0
Cyp2d34	chr15:82446394-82451337	0	0
Cyp2d13	chr15:82467179-82472475	0	0
Cyp2d37-ps	chr15:82519179-82520488	0	0
Cyp2d40	chr15:82590262-82594552	0	0
Scube1	chr15:83433012-83555451	0	0
Mpped1	chr15:83610452-83688904	0	0
Pnpla5	chr15:83943050-83953605	0	0
Mir1249	chr15:84781955-84782053	0	0
Smc1b	chr15:84895118-84962387	0	0
Gm19277	chr15:84979683-84986562	0	0
Mirlet7c-2	chr15:85537032-85537127	0	0
Mirlet7b	chr15:85537748-85537833	0	0
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Acrr	chr15:89398756-89405016	0	0

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Spn-ps	chr15:90721826-90728907	0	0
Abcd2	chr15:90976301-91022238	0	0
Smgc	chr15:91668758-91691866	0	0
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1700031M16Rik	chr15:98228875-98246566	0	0
Olfr282	chr15:98267900-98268828	0	0
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Lalba	chr15:98310830-98313114	0	0
Olfr279	chr15:98327904-98328837	0	0
Snora2b	chr15:98356778-98356890	0	0
Wnt10b	chr15:98602182-98608581	0	0
Wnt1	chr15:98620287-98624261	0	0
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Dnajc22	chr15:98929914-98935138	0	0
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Acvrl1	chr15:100958967-100975767	0	0
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Gm5476	chr15:101417747-101419003	0	0
Gm5477	chr15:101439304-101440910	0	0
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Krt74	chr15:101584689-101593935	0	0
Krt72-ps	chr15:101606990-101616889	0	0
Krt73	chr15:101623738-101632763	0	0
Krt2	chr15:101641119-101648600	0	0
Sp7	chr15:102187607-102196702	0	0
Mir688	chr15:102502222-102502297	0	0
Hoxc12	chr15:102767283-102768948	0	0
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Mir196a-2	chr15:102803780-102803865	0	0
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Hoxc8	chr15:102820969-102824685	0	0
Hoxc6	chr15:102839992-102842312	0	0
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Mir615	chr15:102845340-102845432	0	0
Hoxc4	chr15:102864825-102867283	0	0
D930007P13Rik	chr15:102953500-102977259	0	0
Mir148b	chr15:103115555-103115652	0	0
Gpr84	chr15:103138665-103140869	0	0
Gtsf1	chr15:103232889-103260858	0	0
BC048502	chr15:103269390-103278890	0	0
Pde1b	chr15:103333728-103360483	0	0
Ppp1r1a	chr15:103360709-103368423	0	0
Glycam1	chr15:103393192-103395509	0	0
Olfr161	chr16:3592397-3593339	0	0
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4930455F16Rik	chr16:4219911-4229116	0	0
11-Sep	chr16:4986950-4997945	0	0
Cldn26	chr16:8409368-8425229	0	0
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Mir193b	chr16:13449615-13449694	0	0
Mir365-1	chr16:13453932-13454019	0	0
2310015D24Rik	chr16:13514223-13520512	0	0
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Mir130b	chr16:17124153-17124235	0	0
Mir301b	chr16:17124492-17124589	0	0
Gsc2	chr16:17913646-17915152	0	0
Mir1306	chr16:18284331-18284410	0	0
Mir185	chr16:18327493-18327558	0	0
Cldn5	chr16:18776939-18778355	0	0
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Olfr170	chr16:19605817-19606759	0	0
Olfr171	chr16:19624249-19625194	0	0
B3gnt5	chr16:19760326-19772846	0	0
A930003A15Rik	chr16:19876660-19884367	0	0
Klh6	chr16:19946585-19983122	0	0

Mir684-1	chr16:20176222-20176307	0	0
Cyp2ab1	chr16:20308459-20325477	0	0
Mir1224	chr16:20604524-20604609	0	0
Snord66	chr16:20684328-20684386	0	0
Chrd	chr16:20733199-20742457	0	0
Crygs	chr16:22805275-22811483	0	0
Kng2	chr16:22985924-23029174	0	0
Kng1	chr16:23058372-23082151	0	0
Snord2	chr16:23109025-23109093	0	0
Adipoq	chr16:23146608-23158041	0	0
Rtp1	chr16:23429205-23434033	0	0
Masp1	chr16:23451857-23520663	0	0
Sst	chr16:23889666-23890930	0	0
Rtp2	chr16:23925633-23930880	0	0
A230028O05Rik	chr16:25059724-25069144	0	0
Cldn16	chr16:26463220-26482850	0	0
Ostn	chr16:27307726-27351295	0	0
Uts2d	chr16:27353407-27370325	0	0
Gm10823	chr16:27850015-27926214	0	0
Mir690	chr16:28600020-28600129	0	0
Gm1968	chr16:29958012-29979210	0	0
9030404E10Rik	chr16:30021927-30039565	0	0
Cpn2	chr16:30256464-30267618	0	0
Apod	chr16:31296277-31314682	0	0
Bex6	chr16:32179885-32187030	0	0
Mir1946a	chr16:32267535-32267669	0	0
Zdhhc19	chr16:32496366-32507300	0	0
Mir1947	chr16:33105446-33105531	0	0
Ropn1	chr16:34651296-34678696	0	0
1700119H24Rik	chr16:34935940-34939415	0	0
1600019K03Rik	chr16:35503255-35509505	0	0
Gm5416	chr16:36210488-36217874	0	0
Stfa1	chr16:36277233-36285457	0	0
BC117090	chr16:36321750-36334418	0	0
Fbxo40	chr16:36966158-36979222	0	0
Gpr156	chr16:37916581-38007615	0	0
4930542C21Rik	chr16:38017408-38054612	0	0
Cd80	chr16:38459012-38487014	0	0
4930435E12Rik	chr16:38812317-38828862	0	0
Gap43	chr16:42248673-42340764	0	0
4932412D23Rik	chr16:42796500-42875875	0	0
Mir568	chr16:43640767-43640850	0	0
Mir3081	chr16:44558158-44558242	0	0
Cd200r1	chr16:44765848-44795090	0	0
Gm609	chr16:45416867-45493082	0	0
Gcet2	chr16:45610552-45622980	0	0
Dppa4	chr16:48283847-48294405	0	0
Gm5485	chr16:48399565-48412529	0	0
Trat1	chr16:48734802-48772069	0	0
Retnlb	chr16:48816968-48819005	0	0
Retnla	chr16:48842664-48844574	0	0
Retnlg	chr16:48872720-48874611	0	0

Myh15	chr16:49057598-49199217	0	0
Gm6936	chr16:49980572-49997588	0	0
G730013B05Rik	chr16:50526357-50559572	0	0
Ccdc54	chr16:50589971-50591267	0	0
4930542D17Rik	chr16:50590615-50654279	0	0
4930404A05Rik	chr16:52799620-52815857	0	0
Gpr128	chr16:56724721-56795971	0	0
Gm813	chr16:58613798-58617091	0	0
E330017A01Rik	chr16:58635374-58638516	0	0
Gpr15	chr16:58717547-58718837	0	0
Olfr172	chr16:58760265-58761353	0	0
Olfr173	chr16:58796574-58797738	0	0
Olfr175-ps1	chr16:58823606-58826587	0	0
Olfr176	chr16:58872040-58872974	0	0
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Olfr180	chr16:58915511-58918312	0	0
Olfr181	chr16:58925382-58928470	0	0
Olfr183	chr16:58995229-59000442	0	0
Olfr186	chr16:59026801-59027731	0	0
Olfr187	chr16:59035605-59039575	0	0
Olfr190	chr16:59073980-59074904	0	0
Olfr191	chr16:59085377-59086307	0	0
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Olfr193	chr16:59109504-59110434	0	0
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Olfr195	chr16:59148677-59149604	0	0
Olfr196	chr16:59167037-59167967	0	0
Olfr197	chr16:59185381-59186307	0	0
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Olfr206	chr16:59344604-59345525	0	0
Olfr207	chr16:59361124-59362042	0	0
Gabrr3	chr16:59407207-59461565	0	0
1700022E09Rik	chr16:59466697-59469064	0	0
Epha3	chr16:63545043-63863983	0	0
Htr1f	chr16:64924554-65105610	0	0
1700010K23Rik	chr16:66657362-66664871	0	0
D16Ertd519e	chr16:70616669-70625067	0	0
4931420L22Rik	chr16:71131320-71139274	0	0
4930567J20Rik	chr16:71250148-71267421	0	0
Mir691	chr16:74342234-74342312	0	0
4930578N18Rik	chr16:76122857-76156331	0	0
1700041M19Rik	chr16:77004472-77011126	0	0
Mir99a	chr16:77599180-77599245	0	0
Mirlet7c-1	chr16:77599901-77599995	0	0
Mir125b-2	chr16:77646517-77646588	0	0

4930553E22Rik	chr16:84371387-84375750	0	0
4930529L06Rik	chr16:84680033-84685392	0	0
Mir155	chr16:84714384-84714449	0	0
4930556C24Rik	chr16:85819455-85827017	0	0
ORF63	chr16:87553574-87595581	0	0
Grik1	chr16:87896141-88290503	0	0
Krtap24-1	chr16:88610953-88612524	0	0
Krtap26-1	chr16:88647068-88648041	0	0
Krtap27-1	chr16:88671290-88671899	0	0
Krtap14	chr16:88825535-88826390	0	0
Krtap15	chr16:88829253-88830089	0	0
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Krtap16-5	chr16:88877757-88878283	0	0
Krtap16-4	chr16:88885030-88885334	0	0
Krtap8-2	chr16:88896212-88896694	0	0
Krtap16-10b	chr16:88932048-88932509	0	0
Krtap22-2	chr16:89010624-89011004	0	0
Gm10229	chr16:89015521-89016091	0	0
Krtap6-1	chr16:89031943-89032537	0	0
Krtap16-8	chr16:89047533-89048144	0	0
Krtap20-2	chr16:89206105-89206639	0	0
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Krtap8-1	chr16:89487618-89488197	0	0
Krtap7-1	chr16:89507947-89508568	0	0
Krtap11-1	chr16:89570420-89571428	0	0
Mrap	chr16:90738568-90750021	0	0
4930563D23Rik	chr16:92319007-92321686	0	0
Kcne1	chr16:92346245-92359713	0	0
1810053B23Rik	chr16:93343960-93359788	0	0
Mir802	chr16:93369964-93370061	0	0
Cldn14	chr16:93919275-94009082	0	0
Ripply3	chr16:94550028-94558542	0	0
Erg	chr16:95581810-95751972	0	0
Itgb2l	chr16:96643904-96665221	0	0
4930548J01Rik	chr17:4119445-4122102	0	0
Mir692-1	chr17:7099577-7099686	0	0
Gm1604b	chr17:7229891-7291946	0	0
Gm1604b	chr17:8231374-8294093	0	0
Ccr6	chr17:8428907-8449994	0	0
6530411M01Rik	chr17:9340583-9360887	0	0
Pabpc6	chr17:9859361-9862569	0	0
Plg	chr17:12571474-12612250	0	0
Slc22a3	chr17:12612839-12700570	0	0
Slc22a1	chr17:12841740-12868704	0	0
Pnlcd1	chr17:13081767-13102866	0	0
Snora20	chr17:13115722-13115783	0	0
Gm5091	chr17:15368548-15377747	0	0
Gm10510	chr17:15487776-15491425	0	0
Vmn2r90	chr17:17840904-17871131	0	0
Mir99b	chr17:17967151-17967221	0	0

Mirlet7e	chr17:17967315-17967408	0	0
Mir125a	chr17:17967775-17967843	0	0
Fpr1	chr17:18013434-18020903	0	0
Fpr2	chr17:18024787-18030916	0	0
Fpr3	chr17:18107421-18108641	0	0
Fpr-rs4	chr17:18158696-18159668	0	0
Vmn2r91	chr17:18222020-18273607	0	0
Vmn2r92	chr17:18288893-18322142	0	0
Vmn2r94	chr17:18380533-18414530	0	0
Vmn2r93	chr17:18435244-18463405	0	0
Vmn2r95	chr17:18561067-18589288	0	0
Vmn2r96	chr17:18718690-18735121	0	0
Vmn2r97	chr17:19051285-19085035	0	0
Vmn2r98	chr17:19190456-19218275	0	0
Vmn2r99	chr17:19499098-19531554	0	0
Vmn2r100	chr17:19641774-19669024	0	0
Vmn2r101	chr17:19714194-19749281	0	0
Vmn2r102	chr17:19797362-19831712	0	0
Vmn2r103	chr17:19910326-19949500	0	0
Vmn2r104	chr17:20166388-20185169	0	0
Fpr-rs6	chr17:20319041-20320061	0	0
Vmn2r105	chr17:20345193-20371836	0	0
Vmn2r106	chr17:20404510-20422394	0	0
Vmn2r107	chr17:20482388-20512736	0	0
Vmn1r224	chr17:20556126-20557023	0	0
Vmn2r108	chr17:20599336-20618200	0	0
Vmn1r225	chr17:20639262-20640159	0	0
Vmn2r109	chr17:20677480-20701720	0	0
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Fpr-rs3	chr17:20760809-20761841	0	0
Vmn1r226	chr17:20824471-20825368	0	0
Vmn1r227	chr17:20872063-20873090	0	0
Vmn1r228	chr17:20913022-20914465	0	0
Vmn1r229	chr17:20951458-20952379	0	0
Vmn1r230	chr17:20983514-20984465	0	0
Vmn1r231	chr17:21026679-21027615	0	0
Vmn1r232	chr17:21050168-21051327	0	0
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Vmn1r234	chr17:21365789-21366779	0	0
Vmn1r235	chr17:21397390-21399827	0	0
Vmn1r236	chr17:21423496-21424617	0	0
Vmn1r237	chr17:21450980-21451850	0	0
Vmn2r111	chr17:22684907-22710240	0	0
Vmn2r112	chr17:22738114-22756100	0	0
Vmn2r114	chr17:23427900-23449280	0	0
Vmn2r116	chr17:23521769-23538831	0	0
Zscan10	chr17:23737822-23747986	0	0
Mmp25	chr17:23766424-23782236	0	0
Prss21	chr17:24005038-24010080	0	0
Dcpp1	chr17:24017842-24019820	0	0
Dcpp2	chr17:24035688-24037754	0	0
Dcpp3	chr17:24054424-24056408	0	0

Mir5134	chr17:24371471-24371549	0	0
Npw	chr17:24794274-24795370	0	0
Tmem204	chr17:25194646-25218059	0	0
Ptx4	chr17:25257704-25262213	0	0
Prss34	chr17:25435338-25437106	0	0
Prss28	chr17:25445590-25448821	0	0
Prss29	chr17:25455598-25459629	0	0
Tpsab1	chr17:25480189-25482507	0	0
Tpsb2	chr17:25503277-25505037	0	0
Sstr5	chr17:25626819-25634233	0	0
Nkx2-5	chr17:26975609-26978510	0	0
Mir3083	chr17:27085000-27085064	0	0
Tulp1	chr17:28488463-28502088	0	0
4930511111Rik	chr17:28667805-28675920	0	0
Gm749	chr17:28686431-28689563	0	0
Clps	chr17:28695158-28697659	0	0
Tmem217	chr17:29662962-29686538	0	0
Umodl1	chr17:31091627-31147655	0	0
Tff3	chr17:31262250-31266556	0	0
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Tmprss3	chr17:31316211-31335919	0	0
Ubash3a	chr17:31345010-31379348	0	0
A530088E08Rik	chr17:32539958-32541753	0	0
Pglyrp2	chr17:32550044-32557920	0	0
Cyp4f40	chr17:32796427-32813425	0	0
Cyp4f14	chr17:33042014-33054287	0	0
4921501E09Rik	chr17:33201087-33205003	0	0
Morc2b	chr17:33272534-33276628	0	0
Olfr63	chr17:33405670-33406621	0	0
Actl9	chr17:33569843-33571212	0	0
Adamts10	chr17:33661140-33690727	0	0
Myo1f	chr17:33692651-33744709	0	0
Mir219-1	chr17:34161927-34162037	0	0
H2-Ob	chr17:34375849-34382853	0	0
H2-Eb2	chr17:34462619-34478355	0	0
H2-Ea-ps	chr17:34479156-34481590	0	0
Btnl3	chr17:34514076-34522973	0	0
Btn3a3	chr17:34605986-34612882	0	0
Btnl5	chr17:34624350-34634374	0	0
Btnl6	chr17:34644879-34654297	0	0
Cyp21a1	chr17:34938292-34941371	0	0
Snord52	chr17:35087894-35087953	0	0
Psors1c2	chr17:35670145-35671592	0	0
Sfta2	chr17:35786652-35787514	0	0
4833427F10Rik	chr17:35909394-35917632	0	0
Mir1894	chr17:36054833-36054914	0	0
Mir877	chr17:36097674-36097759	0	0
H2-BI	chr17:36217133-36221194	0	0
2410017I17Rik	chr17:36281962-36299319	0	0
H2-T3	chr17:36322515-36327096	0	0
H2-M10.1	chr17:36459804-36463095	0	0
H2-M10.3	chr17:36501948-36505362	0	0

Gm20410	chr17:38691136-38697566	0	0
Esp24	chr17:39173639-39177172	0	0
Gm20581	chr17:39210635-39213982	0	0
Gm20579	chr17:39543303-39547937	0	0
Gm4345	chr17:39673086-39677792	0	0
Gm9041	chr17:39777901-39782612	0	0
Esp38	chr17:40087464-40092232	0	0
Pgk2	chr17:40343962-40345554	0	0
Gm17495	chr17:40656970-40667651	0	0
Gm5494	chr17:40698455-40702573	0	0
Gm20580	chr17:40735542-40739566	0	0
Esp3	chr17:40769023-40774009	0	0
Gm6084	chr17:40864068-40868731	0	0
Rhag	chr17:40948097-40977703	0	0
3110082D06Rik	chr17:42452895-42644690	0	0
Gpr116	chr17:43526414-43596506	0	0
Mep1a	chr17:43611277-43639722	0	0
Gm7325	chr17:45737915-45739051	0	0
1600014C23Rik	chr17:45869812-45870793	0	0
Mir693	chr17:46368479-46368568	0	0
Pgc	chr17:47863790-47871427	0	0
1700122O11Rik	chr17:48173694-48175243	0	0
1700067P10Rik	chr17:48226581-48227870	0	0
9830107B12Rik	chr17:48262554-48283257	0	0
A530064D06Rik	chr17:48288845-48304207	0	0
Trem3	chr17:48386943-48398207	0	0
Trem4	chr17:48403660-48414724	0	0
B430306N03Rik	chr17:48455486-48465836	0	0
Trem2	chr17:48485725-48491598	0	0
Trem1	chr17:48499240-48506471	0	0
Tspo2	chr17:48587759-48590826	0	0
Unc5c	chr17:48594225-48608009	0	0
1700008K24Rik	chr17:49251588-49252858	0	0
Plcl2	chr17:50648871-50827819	0	0
C330011F03	chr17:51564533-51587594	0	0
Gm20098	chr17:52022051-52104582	0	0
4932415M13Rik	chr17:53863075-53865058	0	0
Sult1c2	chr17:53968961-53985283	0	0
Slc5a7	chr17:54412914-54438359	0	0
1700025K24Rik	chr17:54491907-54509399	0	0
Vmn2r118	chr17:55731638-55763970	0	0
Emr4	chr17:55889248-55992927	0	0
Lrg1	chr17:56259100-56261369	0	0
Mir7b	chr17:56382410-56382521	0	0
Arrdc5	chr17:56433533-56439709	0	0
Znrf4	chr17:56650670-56651906	0	0
Acsbg2	chr17:56982526-57013870	0	0
Slc25a41	chr17:57172194-57181077	0	0
Cd70	chr17:57285419-57289200	0	0
Vmn2r120	chr17:57648205-57684737	0	0
Cntnap5c	chr17:57908992-58549765	0	0
2610034M16Rik	chr17:59018230-59130798	0	0

Lrrc30	chr17:67980304-67982063	0	0
L3mbtl4	chr17:68623136-69129426	0	0
Snord92	chr17:71980618-71980701	0	0
Snord53	chr17:71990228-71990296	0	0
Vit	chr17:78907402-79026749	0	0
4930429F11Rik	chr17:79874963-79877225	0	0
Gm10494	chr17:79905388-79909826	0	0
Ttc39d	chr17:80615253-80617276	0	0
Gm19689	chr17:83432931-83477565	0	0
Haao	chr17:84230693-84246130	0	0
4933433H22Rik	chr17:84477999-84489215	0	0
Six3os1	chr17:86001271-86017736	0	0
Six3	chr17:86020173-86025531	0	0
C330024C12Rik	chr17:87591555-87594282	0	0
Lhcgr	chr17:89140888-89191316	0	0
Fshr	chr17:89384291-89600015	0	0
4933400B14Rik	chr17:89719566-89726673	0	0
Gm4719	chr17:89778580-89784333	0	0
Adcyap1	chr17:93598761-93604829	0	0
Gm10556	chr18:4812483-4850957	0	0
Gm10125	chr18:5491498-5592435	0	0
Zeb1	chr18:5591857-5775466	0	0
Mir1893	chr18:6490561-6490644	0	0
4921524L21Rik	chr18:6603630-6638964	0	0
Gjd4	chr18:9278604-9282807	0	0
Cetn1	chr18:9618416-9619467	0	0
Mir133a-1	chr18:10782906-10782974	0	0
Mir1a-2	chr18:10785478-10785550	0	0
Gata6	chr18:11052507-11085633	0	0
Mir1901	chr18:11998869-11998947	0	0
Mir1948	chr18:12873319-12873404	0	0
Hrh4	chr18:13165498-13181391	0	0
Zfp521	chr18:13845522-14131242	0	0
8430422H06Rik	chr18:14390814-14437051	0	0
Psm8	chr18:14864659-14920808	0	0
4921533I20Rik	chr18:17392991-17393991	0	0
4930545E07Rik	chr18:17727254-17739499	0	0
Mep1b	chr18:21230844-21258700	0	0
4921528I01Rik	chr18:21969397-22329897	0	0
Mir187	chr18:24587610-24587671	0	0
4930474G06Rik	chr18:28718664-29156677	0	0
4930578E11Rik	chr18:29556369-29656070	0	0
4930527G23Rik	chr18:29601853-29625761	0	0
Rit2	chr18:31133967-31476782	0	0
Proc	chr18:32282779-32299224	0	0
A830052D11Rik	chr18:32518710-32537938	0	0
Gypc	chr18:32687973-32719688	0	0
4930455D15Rik	chr18:32823295-32996941	0	0
Wnt8a	chr18:34701981-34707715	0	0
Gfra3	chr18:34849556-34880041	0	0
Mir1949	chr18:35714220-35714290	0	0
Snora74a	chr18:35716683-35716881	0	0

4930471G03Rik	chr18:36265856-36269608	0	0
Pcdh12	chr18:38426745-38444055	0	0
Pabpc2	chr18:39933150-39935736	0	0
Pou4f3	chr18:42554250-42555747	0	0
Spink3	chr18:43887722-43896891	0	0
Scgb3a2	chr18:43923980-43927053	0	0
Spink14	chr18:44187522-44191862	0	0
Spink6	chr18:44231046-44243264	0	0
Spink12	chr18:44264176-44268197	0	0
Gm10267	chr18:44316057-44318957	0	0
Spinkl	chr18:44326011-44334727	0	0
Spink11	chr18:44349698-44355831	0	0
Npy6r	chr18:44429780-44437354	0	0
1700018A14Rik	chr18:46358674-46359385	0	0
4833403I15Rik	chr18:47009692-47065100	0	0
Gm949	chr18:47081468-47093876	0	0
9130209A04Rik	chr18:47612321-47630522	0	0
Gm5095	chr18:47697388-47878290	0	0
G630055G22Rik	chr18:48082494-48267634	0	0
1700044K03Rik	chr18:49682942-49684094	0	0
1700065O20Rik	chr18:49962985-49977610	0	0
Fam170a	chr18:50438022-50442673	0	0
Hdhd1a	chr18:50727309-50728353	0	0
Prr16	chr18:51277551-51464295	0	0
Ftmt	chr18:52491189-52492650	0	0
Lox	chr18:52676891-52689362	0	0
Gykl1	chr18:52853332-52855247	0	0
9430076G02Rik	chr18:54581948-54612948	0	0
9330117O12	chr18:54771397-54799524	0	0
Ctxn3	chr18:57628139-57637788	0	0
1700066O22Rik	chr18:57664075-57693406	0	0
1700011I03Rik	chr18:57693479-57890719	0	0
2210409D07Rik	chr18:57791732-57798239	0	0
Slc27a6	chr18:58715893-58772523	0	0
Adamts19	chr18:58996417-59213332	0	0
Gm4841	chr18:60427954-60432921	0	0
ligp1	chr18:60535682-60552283	0	0
Mir5107	chr18:60971729-60971817	0	0
Cdx1	chr18:61178515-61195853	0	0
Pdgfrb	chr18:61204803-61244721	0	0
A530050N04Rik	chr18:61629878-61644261	0	0
Mir145	chr18:61807478-61807548	0	0
Mir143	chr18:61808849-61808912	0	0
Spink7	chr18:62752066-62755918	0	0
Spink13	chr18:62767193-62901041	0	0
1700091E21Rik	chr18:64317377-64436834	0	0
St8sia3	chr18:64414012-64435798	0	0
Mir122a	chr18:65408514-65408580	0	0
Alpk2	chr18:65425185-65553542	0	0
Rax	chr18:66094292-66098743	0	0
Cplx4	chr18:66115375-66129832	0	0
Mir694	chr18:66378917-66378987	0	0

Mc4r	chr18:67017361-67020126	0	0
Gm19784	chr18:67084415-67109615	0	0
B430212C06Rik	chr18:67480862-67503757	0	0
Cidea	chr18:67503217-67527448	0	0
Mc5r	chr18:68497256-68499365	0	0
Mc2r	chr18:68566560-68588913	0	0
D730045A05Rik	chr18:74177560-74179742	0	0
Scarna17	chr18:74938047-74938109	0	0
Snord58b	chr18:75160721-75160776	0	0
Skor2	chr18:77095143-77139081	0	0
Loxhd1	chr18:77520696-77680996	0	0
4930465K10Rik	chr18:77952922-77954184	0	0
Siglec15	chr18:78240352-78254007	0	0
Slc14a1	chr18:78296829-78338858	0	0
Gm2176	chr18:80738630-80741285	0	0
Sall3	chr18:81163112-81183317	0	0
Mir5127	chr18:82188748-82188819	0	0
Galr1	chr18:82561887-82576169	0	0
Mir5112	chr18:82889672-82889732	0	0
2210420H20Rik	chr18:82923896-82928431	0	0
4921531P14Rik	chr18:83462183-83495276	0	0
Cndp1	chr18:84779900-84819487	0	0
Fam69c	chr18:84889633-84909828	0	0
Cbln2	chr18:86882439-86887675	0	0
Cd226	chr18:89366818-89439719	0	0
Dok6	chr18:89470526-89938528	0	0
1700030N03Rik	chr19:3153798-3197703	0	0
Tbx10	chr19:3992751-3999512	0	0
BC021614	chr19:4057486-4059294	0	0
Cabp2	chr19:4082487-4087339	0	0
2010003K11Rik	chr19:4496787-4498583	0	0
Actn3	chr19:4861222-4877884	0	0
Npas4	chr19:4984354-4989971	0	0
Cd248	chr19:5068077-5070639	0	0
Tmem151a	chr19:5079336-5085477	0	0
Catsper1	chr19:5335740-5344153	0	0
Naaladl1	chr19:6105797-6115555	0	0
Gpha2	chr19:6226400-6227768	0	0
Mir194-2	chr19:6264642-6264728	0	0
Mir192	chr19:6264843-6264932	0	0
Rasgrp2	chr19:6400582-6415216	0	0
Slc22a12	chr19:6535855-6543070	0	0
Mir5046	chr19:6904375-6904434	0	0
Ccdc88b	chr19:6919112-6932701	0	0
1700019N12Rik	chr19:6996915-6999870	0	0
Slc22a19	chr19:7747565-7785800	0	0
Slc22a26	chr19:7856472-7877157	0	0
Slc22a27	chr19:7938878-8040517	0	0
Slc22a28	chr19:8136698-8206472	0	0
Slc22a8	chr19:8665743-8686325	0	0
Slc22a6	chr19:8692485-8702789	0	0
9830166K06Rik	chr19:8726285-8737825	0	0

Chrm1	chr19:8738494-8758092	0	0
Mir5136	chr19:8963188-8963264	0	0
Rab3il1	chr19:10092717-10110076	0	0
Vwce	chr19:10708722-10739700	0	0
4930524O05Rik	chr19:10720183-10722543	0	0
Pga5	chr19:10743446-10752561	0	0
Cd6	chr19:10863828-10904548	0	0
Ms4a10	chr19:11036784-11049160	0	0
Ms4a15	chr19:11052796-11067740	0	0
Ms4a8a	chr19:11141960-11155593	0	0
1700017D01Rik	chr19:11171305-11205368	0	0
1700025F22Rik	chr19:11214172-11239810	0	0
Ms4a13	chr19:11243907-11271213	0	0
Ms4a1	chr19:11325092-11340641	0	0
Ms4a5	chr19:11348355-11358303	0	0
Ms4a4c	chr19:11482150-11501736	0	0
Ms4a4b	chr19:11518047-11538038	0	0
Gm8369	chr19:11566527-11587067	0	0
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Ms4a6d	chr19:11661095-11679294	0	0
Ms4a2	chr19:11691682-11698133	0	0
Ms4a3	chr19:11703986-11715324	0	0
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Oosp1	chr19:11741949-11765541	0	0
Gm97	chr19:11771544-11786348	0	0
Gif	chr19:11822048-11837937	0	0
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Olfr1418	chr19:11929484-11930441	0	0
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Olfr1423	chr19:12110297-12111230	0	0
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Olfr1426	chr19:12162099-12166337	0	0
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Olfr262	chr19:12315210-12316149	0	0
Olfr235	chr19:12342721-12343660	0	0
Olfr1433	chr19:12354343-12358478	0	0
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Olfr1436	chr19:12372672-12373620	0	0
Olfr1437	chr19:12396376-12397315	0	0
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Olfr1441	chr19:12496800-12497757	0	0
Pfpl	chr19:12502394-12506600	0	0
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Keg1	chr19:12770279-12794386	0	0
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Olfr1445	chr19:12958372-12959317	0	0
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Olfr1447	chr19:12975338-12976268	0	0
Olfr1448	chr19:12993852-12994797	0	0
Olfr1449	chr19:13009229-13010174	0	0
Olfr1450	chr19:13028080-13029058	0	0
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Olfr1453	chr19:13101893-13102817	0	0
Olfr1454	chr19:13137902-13138826	0	0
Olfr1457	chr19:13169182-13170136	0	0
Olfr1459	chr19:13220223-13221147	0	0
Olfr1461	chr19:13239505-13240444	0	0
Olfr1462	chr19:13265158-13266082	0	0
Olfr1463	chr19:13308741-13309674	0	0
Olfr1465	chr19:13387849-13388773	0	0
Olfr1466	chr19:13416249-13417182	0	0
Olfr1467	chr19:13439119-13440046	0	0
Olfr1469	chr19:13485060-13485990	0	0
Olfr1471	chr19:13519503-13520448	0	0
Olfr1472	chr19:13528060-13529005	0	0
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Olfr1475	chr19:13553741-13554686	0	0
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Olfr1480	chr19:13604164-13605112	0	0
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Olfr1487	chr19:13693653-13694601	0	0
Olfr1489	chr19:13707602-13708544	0	0
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Olfr1491	chr19:13779318-13780278	0	0
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Olfr1496	chr19:13855037-13856104	0	0
Olfr1497	chr19:13869154-13870099	0	0
Olfr1499	chr19:13889133-13890078	0	0
Olfr1500	chr19:13901948-13902884	0	0
Olfr1501	chr19:13912713-13913661	0	0
Olfr1502	chr19:13936284-13937235	0	0
Olfr1505	chr19:13993511-13994462	0	0
Foxb2	chr19:16946805-16948320	0	0
Rorb	chr19:19005098-19185686	0	0
E030003E18Rik	chr19:20567204-20630900	0	0
C730002L08Rik	chr19:20609016-20626820	0	0
Tmc1	chr19:20857947-21028692	0	0
Mir204	chr19:22825094-22825162	0	0
1700028P14Rik	chr19:23633249-23727302	0	0
E030010A14Rik	chr19:24748497-24754151	0	0
Snora19	chr19:25016727-25016781	0	0
Dmrt1	chr19:25580195-25678818	0	0
Gm815	chr19:26960414-26963137	0	0
Kcnv2	chr19:27397108-27411669	0	0
Mir101b	chr19:29209768-29209865	0	0
Rln1	chr19:29406244-29409160	0	0
Pdcd1lg2	chr19:29485408-29547417	0	0
Trpd52l3	chr19:30078279-30080510	0	0

Mbl2	chr19:30307446-30314172	0	0
Dkk1	chr19:30620373-30623986	0	0
A1cf	chr19:31943250-32023896	0	0
Lipf	chr19:34035737-34051303	0	0
Lipn	chr19:34141847-34159408	0	0
Ch25h	chr19:34548273-34549625	0	0
Mir107	chr19:34895176-34895263	0	0
Htr7	chr19:36033218-36131850	0	0
Ankrd1	chr19:36186454-36194334	0	0
Hhex	chr19:37509330-37515221	0	0
Cyp26c1	chr19:37760169-37767797	0	0
Cyp26a1	chr19:37772297-37776026	0	0
Pde6c	chr19:38207270-38258441	0	0
Cyp2c55	chr19:39081508-39117177	0	0
Cyp2c53-ps	chr19:39303743-39349227	0	0
Cyp2c29	chr19:39361574-39405203	0	0
Cyp2c38	chr19:39464045-39537565	0	0
Cyp2c39	chr19:39585311-39643019	0	0
Cyp2c67	chr19:39683348-39723532	0	0
Cyp2c68	chr19:39763325-39815591	0	0
Cyp2c40	chr19:39841562-39887304	0	0
Cyp2c37	chr19:40066913-40086733	0	0
Cyp2c54	chr19:40112429-40148303	0	0
Cyp2c50	chr19:40164168-40188445	0	0
Cyp2c70	chr19:40227850-40261776	0	0
E030044B06Rik	chr19:40942805-40957129	0	0
Dntt	chr19:41103764-41134015	0	0
Opalin	chr19:41137909-41151603	0	0
Gm19424	chr19:41821450-41824587	0	0
Ankrd2	chr19:42110527-42119600	0	0
Mir3085	chr19:42354571-42354660	0	0
Cyp2c44	chr19:44079511-44103737	0	0
Mir5114	chr19:44377660-44377721	0	0
Wnt8b	chr19:44567961-44588763	0	0
Pax2	chr19:44831883-44912359	0	0
1700039E22Rik	chr19:44902982-44910428	0	0
Lbx1	chr19:45308217-45309726	0	0
Fgf8	chr19:45811287-45817374	0	0
Elovl3	chr19:46206388-46210184	0	0
Pitx3	chr19:46210175-46222815	0	0
Mir146b	chr19:46417251-46417360	0	0
Ina	chr19:47089187-47098836	0	0
Ins1	chr19:52338812-52339948	0	0
Tectb	chr19:55255374-55270803	0	0
4930449E18Rik	chr19:57348449-57351542	0	0
6720468P15Rik	chr19:57583053-57587278	0	0
Gm10007	chr19:58370693-58374838	0	0
1700011F14Rik	chr19:58586491-58627575	0	0
1810007D17Rik	chr19:58680818-58704243	0	0
Pnlip	chr19:58744854-58756278	0	0
Pnliprp1	chr19:58803376-58818659	0	0
Pnliprp2	chr19:58834212-58852024	0	0

1700019N19Rik	chr19:58860292-58868904	0	0
Mir3086	chr19:58986162-58986249	0	0
Vax1	chr19:59240676-59244519	0	0
Kcnk18	chr19:59294137-59311860	0	0
Emx2os	chr19:59499593-59533125	0	0
Emx2	chr19:59533179-59539847	0	0
2700089I24Rik	chr19:59567625-59635294	0	0
Prlhr	chr19:60542635-60544207	0	0
Snora19	chr19:60850232-60850288	0	0
Olah	chr2:3259259-3283841	0	0
Ucma	chr2:4897167-4906794	0	0
Mcm10	chr2:4911769-4933837	0	0
5031426D15Rik	chr2:6843747-6849768	0	0
1700061F12Rik	chr2:9111141-9119111	0	0
Gata3	chr2:9778704-9800227	0	0
4930412O13Rik	chr2:9802872-9808394	0	0
9230102O04Rik	chr2:9804667-9811167	0	0
Itih2	chr2:10016217-10052310	0	0
Mir669e	chr2:10389121-10389240	0	0
Mir669b	chr2:10389416-10389513	0	0
Mir4660	chr2:10394166-10394250	0	0
Mir669a-3	chr2:10396059-10396168	0	0
Mir669k	chr2:10396926-10397053	0	0
Mir467a-4	chr2:10397968-10398050	0	0
Mir467a-1	chr2:10397972-10398045	0	0
Mir669a-2	chr2:10398477-10398572	0	0
Mir669a-1	chr2:10398479-10398576	0	0
Mir669a-12	chr2:10398483-10398570	0	0
Mir669g	chr2:10398776-10398899	0	0
Mir669j	chr2:10399536-10399657	0	0
Mir467a-9	chr2:10400424-10400507	0	0
Mir467a-1	chr2:10400429-10400502	0	0
Mir669a-2	chr2:10400935-10401030	0	0
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Mir669a-5	chr2:10400941-10401028	0	0
Mir467b	chr2:10402874-10402947	0	0
Mir669a-2	chr2:10403381-10403476	0	0
Mir669a-1	chr2:10403383-10403480	0	0
Mir669a-9	chr2:10403387-10403474	0	0
Mir467a-6	chr2:10405304-10405387	0	0
Mir669a-2	chr2:10405816-10405911	0	0
Mir669a-1	chr2:10405818-10405915	0	0
Mir669a-10	chr2:10405822-10405909	0	0
Mir467a-2	chr2:10407761-10407844	0	0
Mir467a-1	chr2:10407766-10407839	0	0
Mir669a-2	chr2:10408273-10408368	0	0
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Mir669a-4	chr2:10408279-10408366	0	0
Mir467a-2	chr2:10410225-10410308	0	0
Mir467a-1	chr2:10410230-10410303	0	0
Mir669p-1	chr2:10410742-10410829	0	0
Mir467a-10	chr2:10412674-10412757	0	0

Mir467a-1	chr2:10412681-10412752	0	0
Mir669a-2	chr2:10413186-10413281	0	0
Mir669a-1	chr2:10413188-10413285	0	0
Mir669a-10	chr2:10413192-10413279	0	0
Mir467a-7	chr2:10415136-10415219	0	0
Mir467a-1	chr2:10415141-10415214	0	0
Mir669a-2	chr2:10415648-10415743	0	0
Mir669a-1	chr2:10415650-10415747	0	0
Mir669a-11	chr2:10415654-10415741	0	0
Mir467a-9	chr2:10417606-10417689	0	0
Mir467a-1	chr2:10417611-10417684	0	0
Mir669p-1	chr2:10418123-10418210	0	0
Mir467a-9	chr2:10420019-10420102	0	0
Mir467a-1	chr2:10420024-10420097	0	0
Mir669a-2	chr2:10420531-10420626	0	0
Mir669a-1	chr2:10420533-10420630	0	0
Mir669a-6	chr2:10420537-10420624	0	0
Mir467a-7	chr2:10422448-10422531	0	0
Mir467a-1	chr2:10422453-10422526	0	0
Mir669a-2	chr2:10422959-10423054	0	0
Mir669a-1	chr2:10422961-10423058	0	0
Mir669a-11	chr2:10422965-10423052	0	0
Mir467a-10	chr2:10424899-10424982	0	0
Mir467a-1	chr2:10424906-10424977	0	0
Mir669a-1	chr2:10425413-10425510	0	0
Mir669a-12	chr2:10425417-10425504	0	0
Mir467d	chr2:10429256-10429341	0	0
Mir466	chr2:10429544-10429617	0	0
Mir669c	chr2:10430922-10431031	0	0
Mir669a-2	chr2:10431790-10431887	0	0
Mir297b	chr2:10433293-10433402	0	0
Mir669m-2	chr2:10435060-10435158	0	0
Mir669m-1	chr2:10435061-10435155	0	0
Mir466g	chr2:10436221-10436301	0	0
Mir297c	chr2:10437446-10437543	0	0
Mir297a-3	chr2:10437446-10437548	0	0
Mir669i	chr2:10439230-10439357	0	0
Mir669h	chr2:10439781-10439906	0	0
8030442B05Rik	chr2:11259992-11320127	0	0
Gm13293	chr2:11261115-11265733	0	0
Il2ra	chr2:11564418-11614821	0	0
Itga8	chr2:12028286-12223547	0	0
Mir511	chr2:14182629-14182708	0	0
4930515L03Rik	chr2:16840304-16935353	0	0
H2afb1	chr2:17918048-17918573	0	0
Ptf1a	chr2:19367289-19369128	0	0
4921504E06Rik	chr2:19384463-19475537	0	0
Gpr158	chr2:21289193-21752169	0	0
Mir3967	chr2:22509802-22509870	0	0
4931423N10Rik	chr2:23062995-23122649	0	0
Nxph2	chr2:23176765-23257493	0	0
Tbpl2	chr2:23927240-23952115	0	0

Il1f10	chr2:24146715-24149340	0	0
Slc34a3	chr2:25084416-25089754	0	0
Tmem210	chr2:25143664-25144707	0	0
Mir3087	chr2:25298298-25298354	0	0
Ptgds	chr2:25322231-25325269	0	0
Lcn12	chr2:25346364-25349431	0	0
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Lcn5	chr2:25513474-25517750	0	0
Lcn6	chr2:25532305-25537127	0	0
Lcn10	chr2:25538245-25541601	0	0
Lcn13	chr2:25555593-25558846	0	0
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Lcn4	chr2:26523193-26526802	0	0
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Col5a1	chr2:27741944-27895030	0	0
Fcnb	chr2:27931998-27940398	0	0
F730016J06Rik	chr2:27977067-27979837	0	0
Mir3088	chr2:28588797-28588871	0	0
Mir219-2	chr2:29701150-29701247	0	0
Mir3089	chr2:30576729-30576813	0	0
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Qrfp	chr2:31661687-31666038	0	0
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Mir3960	chr2:32568419-32568492	0	0
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Lhx2	chr2:38206827-38225248	0	0
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Mir181b-2	chr2:38709349-38709435	0	0
Kynu	chr2:43410848-43538235	0	0
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Tnfaip6	chr2:51893632-51912201	0	0
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Sp5	chr2:70312979-70315783	0	0
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1700109F18Rik	chr2:74548100-74554187	0	0
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Mir684-1	chr2:80468861-80468947	0	0
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Mir130a	chr2:84581271-84581335	0	0
Smtnl1	chr2:84651332-84662809	0	0
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Olfr142	chr2:90092225-90093143	0	0
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Olfr1506	chr2:90162378-90165283	0	0
Olfr1274-ps	chr2:90240796-90241831	0	0
Snord67	chr2:91436237-91436335	0	0
Mir1955	chr2:92032133-92032231	0	0
Syt13	chr2:92755257-92796208	0	0
Mir129-2	chr2:94081520-94081610	0	0
Mir670	chr2:94101456-94101556	0	0
Rag2	chr2:101464904-101472685	0	0
Rag1	chr2:101478410-101489689	0	0
4930547E08Rik	chr2:103644608-103650779	0	0
A930018P22Rik	chr2:103962925-103964903	0	0
Mir1902	chr2:104269017-104269097	0	0
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Wt1	chr2:104966685-105013771	0	0
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Fshb	chr2:106896297-106899808	0	0
Fibin	chr2:110201081-110203150	0	0
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Olfr1275	chr2:111071009-111071948	0	0
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Olfr1277	chr2:111109610-111110522	0	0
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Grem1	chr2:113588831-113598805	0	0
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4930528P14Rik	chr2:115155001-115170016	0	0
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Mir674	chr2:117010862-117010962	0	0
4930412B13Rik	chr2:117647663-117734872	0	0
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1700054M17Rik	chr2:118130649-118133902	0	0
Phgr1	chr2:118598504-118603900	0	0
Patl2	chr2:121945843-122011925	0	0
4933406J08Rik	chr2:122012007-122032129	0	0
Duoxa2	chr2:122124635-122128621	0	0
Slc28a2	chr2:122252212-122286866	0	0
Gm14085	chr2:122310676-122353776	0	0
Mir147	chr2:122466538-122466617	0	0
4930517E11Rik	chr2:123949371-123955692	0	0

4930583P06Rik	chr2:124043414-124048094	0	0
Ctxn2	chr2:124962427-124973577	0	0
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Adra2b	chr2:127189021-127192957	0	0
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F830045P16Rik	chr2:129284094-129362338	0	0
Tmc2	chr2:130020929-130090181	0	0
Snord110	chr2:130101250-130101309	0	0
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1700020A23Rik	chr2:130230994-130231810	0	0
4933425O20Rik	chr2:130232257-130233530	0	0
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Avp	chr2:130406412-130408277	0	0
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Siglec1	chr2:130894955-130912501	0	0
Mir103-2	chr2:131113787-131113873	0	0
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Hao1	chr2:134323096-134380088	0	0
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6330527O06Rik	chr2:135883662-135895653	0	0
Pak7	chr2:135906823-136213703	0	0
Mir1952	chr2:138645664-138645743	0	0
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9430032N09Rik	chr2:143573318-143614922	0	0
Banf2	chr2:143858837-143899715	0	0
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Cst11	chr2:148576096-148581114	0	0
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9230104L09Rik	chr2:148672449-148676670	0	0
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Rem1	chr2:152452743-152460927	0	0
Cox4i2	chr2:152579908-152590773	0	0
Mylk2	chr2:152737087-152748801	0	0
Foxs1	chr2:152757633-152758944	0	0
Dusp15	chr2:152766730-152777318	0	0
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Bpifb2	chr2:153700780-153721006	0	0
Bpifb6	chr2:153726123-153738529	0	0
Bpifb3	chr2:153743965-153758732	0	0
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Bpifa6	chr2:153800680-153826231	0	0
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Bpifa3	chr2:153956082-153964091	0	0
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2310005A03Rik	chr2:154923526-154925815	0	0
Mir499	chr2:155448615-155448694	0	0
Gdf5	chr2:155766760-155771100	0	0
Spag4	chr2:155890948-155895235	0	0
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Gm1332	chr2:156912790-156922217	0	0
1700060C20Rik	chr2:158017743-158021470	0	0
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Slc32a1	chr2:158436493-158441483	0	0
Mir3474	chr2:158464318-158464376	0	0
4933416E03Rik	chr2:159773076-159807025	0	0
9130015L21Rik	chr2:159842388-159866356	0	0
C330008G21Rik	chr2:162216548-162219682	0	0
9430021M05Rik	chr2:162486898-162500940	0	0
Gtsf1l	chr2:162912766-162915337	0	0
Tox2	chr2:163051189-163148838	0	0
2310001K24Rik	chr2:163298280-163298739	0	0
R3hdml	chr2:163318053-163328348	0	0
0610008F07Rik	chr2:163319539-163367457	0	0
Hnf4a	chr2:163372923-163398643	0	0
Wisp2	chr2:163646569-163658883	0	0

Kcnk15	chr2:163679485-163684610	0	0
Rims4	chr2:163689616-163744419	0	0
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Wfdc15b	chr2:164040189-164047399	0	0
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Svs4	chr2:164101691-164104043	0	0
Svs3a	chr2:164115003-164117236	0	0
Svs6	chr2:164142486-164144186	0	0
Svs5	chr2:164158500-164160130	0	0
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Wfdc6b	chr2:164439199-164443713	0	0
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Mmp9	chr2:164773750-164781346	0	0
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Cdh22	chr2:164937006-165060237	0	0
Zfp663	chr2:165176796-165187619	0	0
Slc13a3	chr2:165230794-165298697	0	0
Gm11468	chr2:166099407-166120331	0	0
5031425F14Rik	chr2:166272950-166284270	0	0
Snord12	chr2:166890792-166890858	0	0
Ptgis	chr2:167028695-167066037	0	0
E130018N17Rik	chr2:167978102-167980013	0	0
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Cyp24a1	chr2:170308464-170322638	0	0
Gm16796	chr2:170324856-170337427	0	0
4930470P17Rik	chr2:170404917-170427517	0	0
Dok5	chr2:170557306-170705275	0	0
1700028P15Rik	chr2:171782378-171788299	0	0
Mc3r	chr2:172073991-172076614	0	0
1300015D01Rik	chr2:172950249-172958705	0	0
Pck1	chr2:172978573-172984754	0	0
1700021F07Rik	chr2:173348092-173354003	0	0
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Mir298	chr2:174093004-174093086	0	0
Nespas	chr2:174106737-174120937	0	0
Edn3	chr2:174586273-174609543	0	0
4930591A17Rik	chr2:179149640-179151585	0	0
Mir3091	chr2:179992240-179992316	0	0
Gata5	chr2:180059792-180069384	0	0
Gm14318	chr2:180067561-180075437	0	0
B230312C02Rik	chr2:180105562-180120590	0	0
Gm6307	chr2:180120308-180136507	0	0
Mir1a-1	chr2:180123752-180123829	0	0
Mir133a-2	chr2:180133083-180133187	0	0

Ntsr1	chr2:180234680-180279684	0	0
Bhlhe23	chr2:180509085-180511605	0	0
Mir124a-3	chr2:180628744-180628812	0	0
Birc7	chr2:180663727-180668715	0	0
Nkain4	chr2:180669476-180689404	0	0
Chrna4	chr2:180757015-180773882	0	0
Eef1a2	chr2:180882396-180891720	0	0
Abhd16b	chr2:181227910-181229685	0	0
4930526D03Rik	chr2:181431499-181433147	0	0
Opr1	chr2:181449720-181455690	0	0
1700008P02Rik	chr3:6615412-6620443	0	0
1700010I02Rik	chr3:7925302-7954887	0	0
Stmn2	chr3:8509526-8561604	0	0
4930539M17Rik	chr3:9061963-9071076	0	0
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Fabp9	chr3:10193623-10197222	0	0
Fabp4	chr3:10204342-10208576	0	0
Fabp12	chr3:10244208-10301183	0	0
Gm10745	chr3:11823228-11844359	0	0
4930539N22Rik	chr3:13597138-13652865	0	0
Slc7a12	chr3:14480698-14505818	0	0
Car1	chr3:14766213-14808365	0	0
Car3	chr3:14863537-14872373	0	0
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Gm9733	chr3:15296550-15332302	0	0
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Sirpb1b	chr3:15495753-15575065	0	0
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Gm5150	chr3:15848069-15906332	0	0
2610100L16Rik	chr3:17689920-17700071	0	0
Mir124a-2	chr3:17695661-17695770	0	0
Cypt12	chr3:17848443-17848952	0	0
4930433B08Rik	chr3:18368284-18380477	0	0
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Cpa3	chr3:20115514-20142080	0	0
Cpb1	chr3:20149382-20174651	0	0
Agtr1b	chr3:20213394-20266099	0	0
Rpr12	chr3:22150291-22150529	0	0
Spata16	chr3:26536552-26882134	0	0
1700125G22Rik	chr3:27052947-27055941	0	0
Mir3092	chr3:27483821-27483917	0	0
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Gm1527	chr3:28791538-28825646	0	0
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Mir551b	chr3:29315744-29315842	0	0
Mecom	chr3:30135490-30408409	0	0
Arpm1	chr3:30495994-30498792	0	0
Lrriq4	chr3:30543428-30571353	0	0
Samd7	chr3:30645214-30666096	0	0
Mir1897	chr3:34537385-34537464	0	0

Gm3143	chr3:34598561-34615584	0	0
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Il21	chr3:37121680-37131540	0	0
Fgf2	chr3:37247574-37303752	0	0
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5430434I15Rik	chr3:38102072-38107041	0	0
1700017G19Rik	chr3:40403786-40421834	0	0
C430002E04Rik	chr3:41291602-41297121	0	0
2610316D01Rik	chr3:45084360-45182182	0	0
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4931419H13Rik	chr3:54859163-54887924	0	0
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1700007F19Rik	chr3:57945628-57967729	0	0
4930593A02Rik	chr3:58496510-58592446	0	0
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Gm8298	chr3:59664972-59681235	0	0
Gpr149	chr3:62333884-62409062	0	0
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Vmn2r4	chr3:64192542-64213979	0	0
Vmn2r6	chr3:64341482-64363740	0	0
Vmn2r7	chr3:64494581-64523524	0	0
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Ptx3	chr3:66023808-66029728	0	0
Shox2	chr3:66777190-66785693	0	0
lqcj	chr3:67696141-67860515	0	0
Il12a	chr3:68494565-68502469	0	0
Mir15b	chr3:68813693-68813757	0	0
Mir16-2	chr3:68813823-68813918	0	0
Gm1647	chr3:68935154-68961099	0	0
Otol1	chr3:69811534-69832630	0	0
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Slitrk3	chr3:72852046-72860865	0	0
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4930509J09Rik	chr3:73155127-73285573	0	0
Gm20356	chr3:73813140-73821199	0	0
Serpini2	chr3:75046292-75074000	0	0
Fstl5	chr3:75878482-76513927	0	0
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Accn5	chr3:81800843-81825155	0	0
Gucy1a3	chr3:81896348-81949799	0	0
Npy2r	chr3:82342304-82352007	0	0

Rbm46	chr3:82641154-82680405	0	0
4930564K09Rik	chr3:82680626-82747560	0	0
Fgg	chr3:82811817-82818971	0	0
Fga	chr3:82830074-82837539	0	0
Fgb	chr3:82846226-82853712	0	0
1700028M03Rik	chr3:83359288-83378040	0	0
Snord73a	chr3:85942712-85942780	0	0
Rnu73b	chr3:85944538-85944609	0	0
Fcrls	chr3:87054886-87067446	0	0
Cd5l	chr3:87161802-87174996	0	0
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Fcrl5	chr3:87239703-87304600	0	0
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Bcan	chr3:87791452-87804278	0	0
Hapl2	chr3:87825671-87831433	0	0
Mir3093	chr3:88019092-88019179	0	0
Mir9-1	chr3:88019519-88019608	0	0
Mir1905	chr3:88340222-88340304	0	0
Mir720	chr3:88920530-88920594	0	0
Mir92b	chr3:89031037-89031120	0	0
She	chr3:89635291-89662768	0	0
Mir190b	chr3:89873941-89874021	0	0
S100a2	chr3:90394168-90395430	0	0
S100a5	chr3:90412443-90415702	0	0
S100a8	chr3:90472992-90473956	0	0
9130204L05Rik	chr3:90892058-90894727	0	0
Lelp1	chr3:91938915-91946676	0	0
Sprr2b	chr3:92120626-92122007	0	0
Sprr2d	chr3:92143061-92144795	0	0
Sprr2e	chr3:92156064-92157371	0	0
Sprr2f	chr3:92169108-92170364	0	0
Sprr2g	chr3:92177836-92179151	0	0
Sprr4	chr3:92304184-92304415	0	0
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Lce1b	chr3:92459571-92460848	0	0
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Lce1d	chr3:92489420-92491132	0	0
Lce1e	chr3:92511321-92512996	0	0
Lce1g	chr3:92554072-92556260	0	0
Lce1h	chr3:92567136-92568987	0	0
Lce1i	chr3:92581131-92582821	0	0
Lce1k	chr3:92610212-92611813	0	0
Lce1l	chr3:92653870-92655208	0	0
2310050C09Rik	chr3:92672280-92674127	0	0
Lce1m	chr3:92821728-92822982	0	0
Gm4858	chr3:92872744-92879427	0	0
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Tdpoz2	chr3:93455492-93456585	0	0
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Tdpoz3	chr3:93629941-93631039	0	0
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Tdpoz5	chr3:93875543-93876566	0	0
Gm10696	chr3:93978333-93982115	0	0
4930558C23Rik	chr3:95190379-95206763	0	0
Hormad1	chr3:95363598-95391593	0	0
BC107364	chr3:96237710-96256229	0	0
Hfe2	chr3:96329107-96333139	0	0
Ankrd34a	chr3:96400558-96403701	0	0
4930442L01Rik	chr3:96633748-96635993	0	0
Gja8	chr3:96722944-96729853	0	0
Gja5	chr3:96836338-96857557	0	0
Olfr1402	chr3:97214139-97215102	0	0
Adam30	chr3:97964734-97967096	0	0
Reg4	chr3:98026078-98040671	0	0
Hsd3b2	chr3:98515029-98528466	0	0
Tbx15	chr3:99057682-99158183	0	0
4930406D18Rik	chr3:100230327-100241677	0	0
Cd2	chr3:101079830-101091862	0	0
Nhlh2	chr3:101814067-101819415	0	0
2410057H14Rik	chr3:102524153-102539340	0	0
Nr1h5	chr3:102743580-102768056	0	0
Syt6	chr3:103379203-103439102	0	0
4930564D02Rik	chr3:104869761-104881724	0	0
1700095B22Rik	chr3:105251107-105255873	0	0
Adora3	chr3:105673775-105726960	0	0
I830077J02Rik	chr3:105728808-105735582	0	0
Chi3l3	chr3:105950471-105970482	0	0
Olfr266	chr3:106624524-106625475	0	0
Kcna3	chr3:106839079-106841047	0	0
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Kcna10	chr3:106986060-106998639	0	0
Alx3	chr3:107397948-107408687	0	0
Scarna2	chr3:108357259-108357320	0	0
4930443G12Rik	chr3:108883416-108919500	0	0
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Amy2b	chr3:112950573-112959645	0	0
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Col11a1	chr3:113733457-113923244	0	0
Vcam1	chr3:115812937-115832606	0	0
Gpr88	chr3:115952571-115956402	0	0
1700061I17Rik	chr3:116763439-116780683	0	0
4833424O15Rik	chr3:117278378-117392424	0	0

Mir137	chr3:118136774-118136847	0	0
A730020M07Rik	chr3:121337855-121349371	0	0
4930432M17Rik	chr3:121373680-121385900	0	0
Mir760	chr3:121996502-121996621	0	0
Myoz2	chr3:122709123-122737905	0	0
1700006A11Rik	chr3:124104072-124128946	0	0
1700003H04Rik	chr3:124268808-124284009	0	0
Ndst4	chr3:125107008-125427904	0	0
Mir302b	chr3:127248145-127248219	0	0
Mir302c	chr3:127248280-127248348	0	0
Mir302a	chr3:127248413-127248482	0	0
Mir302d	chr3:127248541-127248607	0	0
Mir367	chr3:127248650-127248725	0	0
Neurog2	chr3:127336062-127338549	0	0
9830132P13	chr3:127619088-127658138	0	0
D030025E07Rik	chr3:127819932-127934523	0	0
Gm5712	chr3:129136590-129137630	0	0
6330410L21Rik	chr3:129456675-129466800	0	0
Lrit3	chr3:129491208-129506948	0	0
Mir1895	chr3:133903468-133903547	0	0
4930539C22Rik	chr3:134067106-134086599	0	0
Bdh2	chr3:134944184-134967389	0	0
Bank1	chr3:135716327-135989010	0	0
Emcn	chr3:137004041-137094033	0	0
4930579F01Rik	chr3:137827098-137849677	0	0
Adh6-ps1	chr3:138037084-138051255	0	0
Adh4	chr3:138078460-138093856	0	0
Mir1956	chr3:138189384-138189449	0	0
4930425O10Rik	chr3:138374498-138389948	0	0
Pdha2	chr3:140872967-140875319	0	0
Gbp1	chr3:142257810-142282140	0	0
Gm6260	chr3:143333855-143375107	0	0
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Clca3	chr3:144667500-144695740	0	0
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Gm10636	chr3:146030116-146041908	0	0
Dnase2b	chr3:146244336-146278562	0	0
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Ptgfr	chr3:151461573-151500492	0	0
AI115009	chr3:152329876-152344396	0	0
St6galnac5	chr3:152483673-152645171	0	0
5730460C07Rik	chr3:153452268-153455051	0	0
Asb17	chr3:153507210-153516579	0	0
2510003D18Rik	chr3:153513337-153515388	0	0
Snord45c	chr3:153575092-153575153	0	0
Snord45b	chr3:153573530-153573575	0	0
Lhx8	chr3:153969257-153993524	0	0
AI606473	chr3:153993784-153997651	0	0
Tnni3k	chr3:154449254-154718371	0	0
4930570G19Rik	chr3:156209716-156224710	0	0
Negr1	chr3:156224757-156979411	0	0

Mir186	chr3:157207242-157207313	0	0
Rpe65	chr3:159262144-159288271	0	0
Vmn1r2	chr4:3099229-3100150	0	0
Mos	chr4:3797804-3799252	0	0
Penk	chr4:4060682-4065592	0	0
4930423M02Rik	chr4:5559474-5569431	0	0
Cyp7a1	chr4:6192758-6202778	0	0
8430436N08Rik	chr4:7487834-7500948	0	0
Gdf6	chr4:9771518-9789492	0	0
4930448K20Rik	chr4:9843111-9844544	0	0
1700123O12Rik	chr4:10435177-10724949	0	0
Mir684-2	chr4:11061243-11061329	0	0
Slc26a7	chr4:14432343-14548925	0	0
Lrrc69	chr4:14592900-14723199	0	0
Gm11837	chr4:14857787-14880177	0	0
Necab1	chr4:14879391-15076278	0	0
Mmp16	chr4:17780628-18045881	0	0
Slc7a13	chr4:19745873-19769360	0	0
Atp6v0d2	chr4:19803984-19849713	0	0
4930480G23Rik	chr4:19906591-19932886	0	0
Prdm13	chr4:21604626-21613110	0	0
4930548K13Rik	chr4:26562966-26632596	0	0
4930556G01Rik	chr4:30591745-30782894	0	0
Gja10	chr4:32687839-32689357	0	0
Cnr1	chr4:34011606-34035806	0	0
Spaca1	chr4:34115288-34137042	0	0
Gm136	chr4:34691036-34703508	0	0
Cga	chr4:34841027-34854623	0	0
2410114N07Rik	chr4:34857037-34858730	0	0
Lingo2	chr4:35653896-36898777	0	0
Mir876	chr4:36592405-36592486	0	0
Mir873	chr4:36615542-36615619	0	0
1700009N14Rik	chr4:39397325-39398811	0	0
4930509K18Rik	chr4:40260264-40264752	0	0
Tmem215	chr4:40419212-40422686	0	0
4933428C19Rik	chr4:40429872-40472581	0	0
Mir207	chr4:40669949-40670028	0	0
Mir5123	chr4:40797088-40797171	0	0
Mir3094	chr4:40940727-40940791	0	0
Gm3893	chr4:41763293-42104673	0	0
Gm13304	chr4:41774206-41775337	0	0
Ccl21b	chr4:41774242-41775337	0	0
Gm13298	chr4:41836783-41842582	0	0
Gm10591	chr4:41985509-41986640	0	0
Ccl21b	chr4:41985545-41986640	0	0
Gm1987	chr4:42231042-42232176	0	0
Ccl21a	chr4:42231044-42232176	0	0
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Ccl21b	chr4:42391949-42393044	0	0
Ccl21c	chr4:42391949-42393080	0	0
Gm13298	chr4:42535970-42541769	0	0
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Ccl21b	chr4:42625690-42626785	0	0
Ccl19	chr4:42768056-42770050	0	0
Ccl21a	chr4:42786391-42787523	0	0
Gm1987	chr4:42786391-42787525	0	0
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Sit1	chr4:43494954-43496581	0	0
Olfr70	chr4:43707871-43713679	0	0
5430416O09Rik	chr4:43742905-43747406	0	0
A630077J23Rik	chr4:43764730-43772336	0	0
Olfr159	chr4:43782921-43783881	0	0
Olfr29-ps1	chr4:43794236-43795199	0	0
Olfr155	chr4:43867163-43868335	0	0
Mir5106	chr4:44234066-44234139	0	0
2900093L17Rik	chr4:45247594-45256862	0	0
Gm829	chr4:45696460-45736578	0	0
Baat	chr4:49502289-49519430	0	0
Grin3a	chr4:49678097-49857953	0	0
Ppp3r2	chr4:49691618-49694855	0	0
Cylc2	chr4:51229549-51242800	0	0
C630028M04Rik	chr4:51980965-52063982	0	0
2700081L22Rik	chr4:52443155-52451836	0	0
4930552N02Rik	chr4:52827475-52841141	0	0
Olfr275	chr4:52838270-52839230	0	0
Olfr273	chr4:52868429-52869383	0	0
Olfr272	chr4:52923704-52924664	0	0
Olfr270	chr4:52983500-52984439	0	0
Nipsnap3a	chr4:53002155-53013726	0	0
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Gm12505	chr4:55423314-55431714	0	0
Actl7b	chr4:56752876-56754297	0	0
Mir32	chr4:56908100-56908170	0	0
Gm12530	chr4:57184942-57189426	0	0
1700042G15Rik	chr4:57372663-57377164	0	0
Txndc8	chr4:57996900-58021996	0	0
Musk	chr4:58298833-58387175	0	0
Mir3095	chr4:58453883-58453970	0	0
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Mup6	chr4:60016420-60019086	0	0
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Mup15	chr4:60079340-60152730	0	0
Mup2	chr4:60148804-60152729	0	0
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Mup1	chr4:60510884-60514832	0	0
Mup10	chr4:60591132-60595027	0	0
Gm2083	chr4:60591132-60675237	0	0
Mup2	chr4:60591132-60675243	0	0
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Mup12	chr4:60732253-60736153	0	0
Mup13	chr4:60885338-60889318	0	0
Mup14	chr4:60961068-60965030	0	0
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Mup17	chr4:61252962-61256864	0	0
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Ambp	chr4:62804312-62815176	0	0
Mir455	chr4:62917884-62917966	0	0
Gm11213	chr4:63257934-63266295	0	0
Tnfsf8	chr4:63493857-63522318	0	0
Gm11487	chr4:73062065-73066106	0	0
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Gm428	chr4:73329417-73333463	0	0
Gm13871	chr4:73518122-73522170	0	0
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Gm13871	chr4:73532968-73537016	0	0
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Gm11758	chr4:73532973-73537016	0	0
Gm13871	chr4:73547809-73551857	0	0
Gm11757	chr4:73547810-73551857	0	0
Gm11758	chr4:73547814-73551857	0	0
Gm11756	chr4:73562631-73566664	0	0
2310002L09Rik	chr4:73585274-73596750	0	0
Frmf3	chr4:73659506-73848118	0	0
Cer1	chr4:82527654-82531055	0	0
Gm11413	chr4:83024220-83036572	0	0
Fam154a	chr4:86090601-86204207	0	0
Mir491	chr4:87767943-87768029	0	0
Gm12597	chr4:88203576-88204149	0	0
lfna14	chr4:88217132-88217702	0	0
lfna9	chr4:88237716-88238289	0	0
lfna12	chr4:88248483-88249280	0	0
C87499	chr4:88273223-88280090	0	0
lfna13	chr4:88289544-88290363	0	0
Gm13280	chr4:88322190-88322760	0	0
lfna2	chr4:88329110-88329683	0	0
lfnaB	chr4:88336502-88337172	0	0
lfna7	chr4:88462128-88462704	0	0
lfna11	chr4:88465822-88466469	0	0
lfna6	chr4:88473319-88473889	0	0
lfna5	chr4:88481428-88481998	0	0
lfna4	chr4:88487719-88488363	0	0
lfna1	chr4:88495990-88496560	0	0
lfne	chr4:88525441-88526105	0	0
Mir31	chr4:88556460-88556566	0	0
Cdkn2a	chr4:88920376-88940523	0	0

Zfp352	chr4:89885510-89892378	0	0
Gm12633	chr4:90026315-90028005	0	0
Izumo3	chr4:91811008-91813912	0	0
Mir872	chr4:94331847-94331928	0	0
4930579C15Rik	chr4:94573983-94595501	0	0
Cyp2j13	chr4:95709350-95744231	0	0
Cyp2j12	chr4:95766008-95807843	0	0
Cyp2j5	chr4:96294122-96330810	0	0
E130114P18Rik	chr4:97234565-97251282	0	0
A730085A09Rik	chr4:98460458-98465728	0	0
Foxd3	chr4:99322989-99325362	0	0
Ube2u	chr4:100151471-100222750	0	0
Mir101a	chr4:101019549-101019632	0	0
Lepr	chr4:101390011-101487959	0	0
Gm12794	chr4:101613011-101615788	0	0
Gm12789	chr4:101659444-101662836	0	0
Sgip1	chr4:102432967-102643782	0	0
Gm12709	chr4:102639870-102662360	0	0
Tctex1d1	chr4:102658983-102678199	0	0
BB031773	chr4:102676710-102684570	0	0
Insl5	chr4:102690477-102699333	0	0
4930456L15Rik	chr4:102963563-102984437	0	0
LOC622167	chr4:103055104-103164793	0	0
Cdcp2	chr4:106769495-106780353	0	0
Glis1	chr4:107107323-107307664	0	0
Dmrtb1	chr4:107348894-107356767	0	0
Fam159a	chr4:108040381-108055954	0	0
Mir761	chr4:108690259-108690335	0	0
4930522H14Rik	chr4:109177936-109203902	0	0
Skint8	chr4:111592159-111622961	0	0
Skint7	chr4:111645531-111660826	0	0
Skint3	chr4:111904849-111973073	0	0
Skint9	chr4:112058573-112106590	0	0
Skint2	chr4:112286356-112320445	0	0
Skint10	chr4:112383434-112447466	0	0
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Skint5	chr4:113150495-113672108	0	0
Skint11	chr4:113835988-113917633	0	0
Tal1	chr4:114732131-114744360	0	0
Cyp4x1	chr4:114781286-114806582	0	0
Cyp4a29-ps	chr4:114914688-114927162	0	0
Cyp4a30b-ps	chr4:115125208-115143667	0	0
Cyp4a14	chr4:115158804-115168746	0	0
Gm12839	chr4:115254642-115255732	0	0
Kncn	chr4:115557004-115560569	0	0
Dmbx1	chr4:115587723-115612531	0	0
1700042G07Rik	chr4:115845976-115846902	0	0
Snord38a	chr4:116827120-116827179	0	0
Snord55	chr4:116828375-116828453	0	0
Gm1661	chr4:116885937-116924522	0	0
Mpl	chr4:118115021-118130100	0	0
Tie1	chr4:118143795-118162454	0	0

Olfr62	chr4:118338123-118339071	0	0
Olfr1342	chr4:118362107-118363055	0	0
Olfr1341	chr4:118382013-118382952	0	0
Olfr1340	chr4:118398853-118399801	0	0
Olfr1339	chr4:118407135-118408083	0	0
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Olfr1337	chr4:118454240-118455188	0	0
Olfr1335	chr4:118481459-118482467	0	0
Olfr1333	chr4:118502089-118503043	0	0
Olfr1331	chr4:118541387-118542341	0	0
Olfr1330	chr4:118565689-118566637	0	0
Olfr1329	chr4:118589128-118590070	0	0
Olfr1328	chr4:118606503-118607445	0	0
Lao1	chr4:118634571-118641515	0	0
Guca2b	chr4:119329207-119331550	0	0
Mir30c-1	chr4:120442138-120442227	0	0
Mir30e	chr4:120445210-120445302	0	0
Rims3	chr4:120550473-120564165	0	0
Tmco2	chr4:120778255-120781831	0	0
Gm12886	chr4:121087339-121095704	0	0
Gm12887	chr4:121286608-121294730	0	0
9530002B09Rik	chr4:122366501-122382378	0	0
Nt5c1a	chr4:122878795-122893450	0	0
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4933407E24Rik	chr4:124246421-124252781	0	0
Mir697	chr4:124408937-124409046	0	0
Epha10	chr4:124559028-124595044	0	0
1700125G02Rik	chr4:124568131-124572026	0	0
Rspo1	chr4:124663673-124686343	0	0
2610028E06Rik	chr4:125565094-125599554	0	0
Gja4	chr4:126988664-126991222	0	0
CK137956	chr4:127604835-127648085	0	0
4930465A12Rik	chr4:127810766-127844211	0	0
Hmgb4	chr4:127937455-127938139	0	0
Tlr12	chr4:128292689-128295863	0	0
Fam167b	chr4:129254058-129255824	0	0
E330017L17Rik	chr4:129583469-129586240	0	0
Gm853	chr4:129886352-129899539	0	0
Snord85	chr4:130305552-130305617	0	0
Matn1	chr4:130500299-130511391	0	0
Snora61	chr4:131866221-131866283	0	0
Snord99	chr4:131866617-131866673	0	0
Fgr	chr4:132530009-132557797	0	0
Mir5122	chr4:132925690-132925779	0	0
Lin28a	chr4:133559244-133574731	0	0
Grrp1	chr4:133807024-133810021	0	0
Trim63	chr4:133871034-133885544	0	0
1700021N21Rik	chr4:134004679-134006086	0	0
Mir700	chr4:134972469-134972548	0	0
1700029M20Rik	chr4:135182569-135186113	0	0
Myom3	chr4:135315629-135371479	0	0
Htr1d	chr4:135979438-136000317	0	0

4930549C01Rik	chr4:136166351-136169128	0	0
Lactbl1	chr4:136178535-136194025	0	0
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Gm13011	chr4:136957468-136965706	0	0
Cela3b	chr4:136976922-136986435	0	0
1700013G24Rik	chr4:137009210-137011376	0	0
Ldlrad2	chr4:137126790-137131095	0	0
Pla2g2d	chr4:138331649-138338058	0	0
Pla2g5	chr4:138355161-138419384	0	0
Pla2g2a	chr4:138387771-138391104	0	0
Pax7	chr4:139293995-139388883	0	0
Padi6	chr4:140283269-140298558	0	0
4930515B02Rik	chr4:140428607-140433972	0	0
Gm13031	chr4:140503580-140513817	0	0
6330545A04Rik	chr4:140769870-140776029	0	0
Clnka	chr4:140940525-140954621	0	0
Clnkb	chr4:140960271-140971903	0	0
Hspb7	chr4:140976693-140981225	0	0
Gm694	chr4:140988586-140992020	0	0
1810035I16Rik	chr4:141400235-141402905	0	0
Lrrc38	chr4:142939652-142960931	0	0
Pramel1	chr4:142984343-142989722	0	0
Oog4	chr4:143027066-143040205	0	0
Gm13040	chr4:143101214-143107736	0	0
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Gm13057	chr4:143125856-143132374	0	0
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Gm13078	chr4:143309357-143319061	0	0
Gm13084	chr4:143399893-143405996	0	0
Gm13103	chr4:143436399-143443540	0	0
Gm13109	chr4:143538484-143540919	0	0
Pramef17	chr4:143581021-143584272	0	0
Pramel4	chr4:143649028-143659221	0	0
Gm13102	chr4:143689782-143700004	0	0
Oog3	chr4:143747458-143752554	0	0
Oog2	chr4:143780619-143786837	0	0
Pramel5	chr4:143860535-143870369	0	0
Gm13128	chr4:143920151-143923368	0	0
Gm13119	chr4:143947866-143954322	0	0
Gm13125	chr4:143962662-143967836	0	0
1700012P22Rik	chr4:144008093-144028675	0	0
Aadacl3	chr4:144043673-144053659	0	0
9430007A20Rik	chr4:144109724-144119256	0	0
Gm13124	chr4:144144902-144155037	0	0
Gm13177	chr4:144203609-144213301	0	0
Gm436	chr4:144259839-144276271	0	0
Gm13178	chr4:144293093-144311307	0	0
Gm438	chr4:144367106-144376486	0	0
Gm13242	chr4:145260599-145294340	0	0
1700095A21Rik	chr4:145651165-145679000	0	0

Mir1960	chr5:30497278-30497356	0	0
Otof	chr5:30669350-30764305	0	0
Cib4	chr5:30787956-30848209	0	0
Gm9899	chr5:30876359-30890992	0	0
Kcnk3	chr5:30890542-30927643	0	0
Tcf23	chr5:31271049-31279391	0	0
Trim54	chr5:31418984-31439999	0	0
Ucn	chr5:31440361-31441268	0	0
4930548H24Rik	chr5:31788231-31790635	0	0
4930557J02Rik	chr5:34461388-34477988	0	0
Mir3097	chr5:35363697-35363764	0	0
Adra2c	chr5:35621214-35624412	0	0
4930478P22Rik	chr5:35704201-35710326	0	0
Hmx1	chr5:35731765-35735521	0	0
Cpz	chr5:35844866-35868275	0	0
Cytl1	chr5:38126757-38131059	0	0
Drd5	chr5:38710747-38713549	0	0
4930487D11Rik	chr5:38735627-38740436	0	0
4930513D17Rik	chr5:39852987-39994813	0	0
Nkx3-2	chr5:42152721-42155459	0	0
C1qtnf7	chr5:43906807-44007825	0	0
Bst1	chr5:44210131-44234707	0	0
Ldb2	chr5:44863371-45190946	0	0
Clrn2	chr5:45844989-45855388	0	0
Sod3	chr5:52755042-52760977	0	0
8030423F21Rik	chr5:52998788-53010250	0	0
5033403H07Rik	chr5:53364250-53383531	0	0
Cckar	chr5:54089723-54098943	0	0
Gm10440	chr5:54741230-54749781	0	0
4932441J04Rik	chr5:57961322-58109158	0	0
4930459L07Rik	chr5:58834478-58844237	0	0
4933402J10Rik	chr5:60354357-60377241	0	0
1700027F09Rik	chr5:64846051-64859181	0	0
C030018K13Rik	chr5:64868246-64875205	0	0
Mir574	chr5:65361556-65361634	0	0
Rhoh	chr5:66254807-66287939	0	0
Phox2b	chr5:67485635-67490365	0	0
C330024D21Rik	chr5:67855136-67862070	0	0
4930425K10Rik	chr5:68324850-68334320	0	0
Gm5108	chr5:68332907-68368309	0	0
Grxcr1	chr5:68423073-68557637	0	0
Yipf7	chr5:69907908-69933886	0	0
Gabrg1	chr5:71142285-71233856	0	0
Gabra2	chr5:71352295-71487088	0	0
Gabra4	chr5:71960972-72049547	0	0
Zar1	chr5:72968352-72972323	0	0
Cnga1	chr5:72994935-73033991	0	0
Txk	chr5:73087216-73144012	0	0
Snora26	chr5:74489554-74489675	0	0
Gm6116	chr5:75345218-75362393	0	0
Gsx2	chr5:75471625-75473918	0	0
Gm19583	chr5:75506345-75543132	0	0

Kdr	chr5:76329298-76374453	0	0
Gm7271	chr5:76913101-76945653	0	0
Mir5098	chr5:77701781-77701863	0	0
Pea15b	chr5:77940219-77940773	0	0
Mir1187	chr5:83227968-83228090	0	0
Tecrl	chr5:83707146-83784220	0	0
Stap1	chr5:86500852-86533018	0	0
Gnrhr	chr5:86611022-86626895	0	0
Ugt2b34	chr5:87318794-87335962	0	0
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Sult1e1	chr5:88004992-88020636	0	0
Mir3969	chr5:88024926-88025018	0	0
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Csn1s2b	chr5:88237146-88253446	0	0
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Gm3286	chr5:96221657-96233254	0	0
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Lpcat2b	chr5:107860567-107864058	0	0
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Wscd2	chr5:113919466-114039679	0	0
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Svop	chr5:114476921-114541389	0	0
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4930572K03Rik	chr5:127650934-127664726	0	0
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Ccl24	chr5:136045806-136048913	0	0
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Smok3b	chr5:138478451-138491861	0	0
Mir25	chr5:138606548-138606632	0	0
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Mir106b	chr5:138606964-138607046	0	0
BC055004	chr5:138667131-138693103	0	0
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4930500F04Rik	chr5:150650321-150666855	0	0
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Mir653	chr6:3671300-3671385	0	0
Mir489	chr6:3671896-3672003	0	0
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Sgce	chr6:4624349-4697204	0	0
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Dlx6as2	chr6:6813796-6815150	0	0

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Npvf	chr6:50600869-50604392	0	0
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Vmn2r19	chr6:123258350-123286555	0	0
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Gprc5d	chr6:135056008-135068301	0	0
E330021D16Rik	chr6:136350340-136364090	0	0
Gucy2c	chr6:136645804-136730263	0	0
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Ptpro	chr6:137200819-137413154	0	0
Lmo3	chr6:138313001-138530489	0	0
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Rergl	chr6:139441702-139450430	0	0
Plcz1	chr6:139938242-139989938	0	0
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Slco1a4	chr6:141753960-141804692	0	0
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Gm6614	chr6:141920716-141957266	0	0
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Gys2	chr6:142371132-142421629	0	0
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Iftld1	chr6:145345754-145383445	0	0
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Speer9-ps1	chr7:3128145-3144993	0	0
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Mir290	chr7:3218626-3218709	0	0
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Mir292	chr7:3219189-3219271	0	0
Mir291b	chr7:3219482-3219561	0	0
Mir293	chr7:3220343-3220423	0	0
Mir294	chr7:3220641-3220725	0	0
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Nlrp12	chr7:3221510-3249741	0	0
Cacng8	chr7:3394458-3415366	0	0
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Tarm1	chr7:3489956-3503433	0	0

Oscar	chr7:3561416-3567735	0	0
Mir3572	chr7:3607563-3607649	0	0
9430041J12Rik	chr7:4025726-4072330	0	0
Lilra5	chr7:4189355-4195065	0	0
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Galp	chr7:6148691-6167739	0	0
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Gm6792	chr7:6204311-6233463	0	0
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Vmn1r70	chr7:11218935-11219832	0	0
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Sult2a6	chr7:14807751-14840219	0	0
2810007J24Rik	chr7:14996034-15031936	0	0
Sult2a7	chr7:15050507-15078275	0	0
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Obox6	chr7:16418598-16425028	0	0
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Snord23	chr7:16524110-16524209	0	0
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Ceacam15	chr7:17256679-17261054	0	0
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Ceacam3	chr7:17735748-17748580	0	0
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Mill1	chr7:18830695-18851441	0	0
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Vmn1r94	chr7:22948136-22949054	0	0
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Vmn1r-ps79	chr7:23137281-23139574	0	0
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Gm4541	chr7:23385002-23404469	0	0
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C330005M16Rik	chr7:29392655-29416034	0	0

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Siglec5	chr7:50606774-50614840	0	0
Siglecg	chr7:50663649-50673719	0	0
Lim2	chr7:50685470-50691361	0	0
Nkg7	chr7:50692507-50693616	0	0
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Gm14492	chr7:149676984-149692676	0	0
Nctc1	chr7:149730513-149744503	0	0
Mir675	chr7:149762968-149763052	0	0
Igf2as	chr7:149845597-149856261	0	0
Mir483	chr7:149840828-149840901	0	0
Ins2	chr7:149864560-149865613	0	0
Tnfrsf26	chr7:150793589-150813750	0	0
Mrgprg	chr7:150949614-150952898	0	0
Fgf4	chr7:152047290-152051148	0	0
Mrgprf	chr7:152486813-152495462	0	0
Mrgprd	chr7:152500739-152509964	0	0
1700019B03Rik	chr8:3470861-3487178	0	0
Retn	chr8:3655769-3659818	0	0
1810033B17Rik	chr8:3665761-3668905	0	0
Clec4g	chr8:3716070-3720651	0	0
Cd209a	chr8:3743394-3748984	0	0
Cd209e	chr8:3847972-3854286	0	0
Cd209d	chr8:3871823-3878499	0	0
Cd209b	chr8:3917656-3926814	0	0
Cd209f	chr8:4102792-4105764	0	0
Cd209g	chr8:4134735-4137707	0	0
Slc10a2	chr8:5085622-5105232	0	0
4933430N04Rik	chr8:9125411-9132288	0	0
Myo16	chr8:10153922-10633950	0	0
B930025P03Rik	chr8:10870421-10882454	0	0
3930402G23Rik	chr8:10924426-10928457	0	0
Spaca7	chr8:12573048-12600738	0	0
Gm15348	chr8:12706943-12719127	0	0
Mir1968	chr8:13189030-13189098	0	0
Adprhl1	chr8:13235661-13254162	0	0
Atp4b	chr8:13386208-13396778	0	0
Fam70b	chr8:13435458-13461451	0	0

BB014433	chr8:15041445-15046078	0	0
Mir3106	chr8:16168756-16168838	0	0
Xkr5	chr8:18932728-18950973	0	0
Defb40	chr8:18974939-18978116	0	0
Defb37	chr8:18986232-18991055	0	0
Defb38	chr8:19023463-19026529	0	0
Defb39	chr8:19052825-19064810	0	0
Defb12	chr8:19111930-19114833	0	0
Defb34	chr8:19123751-19126540	0	0
Defb46	chr8:19239915-19242143	0	0
Defb5	chr8:19247591-19250828	0	0
Defa-ps13	chr8:19300676-19304794	0	0
Defb8	chr8:19445769-19447606	0	0
Defb7	chr8:19495096-19497775	0	0
Gm15056	chr8:22040296-22041664	0	0
Gm6040	chr8:22056168-22061750	0	0
AY761185	chr8:22083372-22084427	0	0
Defa21	chr8:22165223-22166196	0	0
Defa23	chr8:22194718-22195695	0	0
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Gm14851	chr8:22234649-22235729	0	0
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Gm15293	chr8:22341282-22342125	0	0
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Gm15299	chr8:22455224-22456066	0	0
Defa-rs1	chr8:22465566-22466699	0	0
Gm7849	chr8:22565898-22566989	0	0
Gm7861	chr8:22566010-22566989	0	0
Defa20	chr8:22619727-22620709	0	0
Gm15308	chr8:22639501-22640484	0	0
Gm6696	chr8:22693498-22694339	0	0
Gm7849	chr8:22703846-22704937	0	0
Gm7861	chr8:22703958-22704937	0	0
Defa26	chr8:22728639-22729444	0	0
Defa17	chr8:22766238-22767208	0	0
Defa4	chr8:22776268-22776440	0	0
Gm15315	chr8:22776268-22777205	0	0
Defa-ps1	chr8:22805483-22806325	0	0
AY761184	chr8:22812995-22814119	0	0
Defa24	chr8:22844965-22845943	0	0
Defa6	chr8:22845008-22845849	0	0
Defb50	chr8:22934010-22941768	0	0
Defb2	chr8:22950397-22953953	0	0
Defb10	chr8:22969372-22972482	0	0
Defb9	chr8:22992184-22995906	0	0
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Defb15	chr8:23040284-23043182	0	0
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Defb13	chr8:23057233-23059094	0	0
C86695	chr8:23069185-23074775	0	0
Ccdc70	chr8:23081067-23084513	0	0
Mir486	chr8:24253026-24253154	0	0
Mir3107	chr8:24253044-24253134	0	0
Nkx6-3	chr8:24263742-24269420	0	0
Ido2	chr8:25642363-25686805	0	0
Ido1	chr8:25694612-25707481	0	0
Adam18	chr8:25712717-25785227	0	0
Adam3	chr8:25787705-25836297	0	0
2310008N11Rik	chr8:27925068-27934895	0	0
Got11	chr8:28307930-28313019	0	0
Gm9731	chr8:28406516-28407672	0	0
Tex24	chr8:28454865-28459660	0	0
Chrna6	chr8:28513683-28524416	0	0
Poteg	chr8:28558141-28605644	0	0
Gm8096	chr8:29193665-29195325	0	0
Mir1186	chr8:32213392-32213514	0	0
7420700N18Rik	chr8:32478220-32492910	0	0
5430403N17	chr8:36927138-36946011	0	0
Mir383	chr8:39315186-39315256	0	0
Gm6213	chr8:40383333-40453622	0	0
Adam24	chr8:41760447-41767553	0	0
Adam25	chr8:41837561-41841530	0	0
4930529F22Rik	chr8:41878626-41882657	0	0
Adam39	chr8:41908362-41912215	0	0
Fgl1	chr8:42276787-42300510	0	0
2810404M03Rik	chr8:42912620-43131556	0	0
Triml1	chr8:44215160-44226840	0	0
Triml2	chr8:44268475-44279238	0	0
Zfp42	chr8:44380420-44392363	0	0
Adam26b	chr8:44605217-44613491	0	0
Adam26a	chr8:44653629-44662061	0	0
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Adam34	chr8:44735662-44750914	0	0
Gm5347	chr8:44759011-44784845	0	0
Gm6329	chr8:46245847-46250499	0	0
F11	chr8:46326523-46347385	0	0
Helt	chr8:47377401-47380025	0	0
Enpp6	chr8:48072278-48180249	0	0
Gm2516	chr8:51453465-51501443	0	0
Spata4	chr8:55686133-55695451	0	0
Adam29	chr8:58349708-58385761	0	0
Gira3	chr8:58419621-58604149	0	0
Hand2	chr8:59799779-59803314	0	0
Scrg1	chr8:59934719-59956382	0	0
Gm15881	chr8:61178642-61179593	0	0
BC030500	chr8:61390551-61393095	0	0
Aadat	chr8:62984920-63024474	0	0
Spock3	chr8:65430028-65835893	0	0

Gm4975	chr8:66403490-66430967	0	0
Tll1	chr8:66493566-66684790	0	0
Mir710	chr8:66993128-66993238	0	0
Tktl2	chr8:69035638-69037677	0	0
Npy5r	chr8:69203863-69211993	0	0
Nat3	chr8:70047752-70072526	0	0
Hapln4	chr8:72607427-72614761	0	0
Il12rb1	chr8:73332347-73345322	0	0
Snora68	chr8:73419657-73419755	0	0
Mir1969	chr8:73449423-73449517	0	0
1700026F02Rik	chr8:73530626-73550654	0	0
Plvap	chr8:74021651-74035668	0	0
Olfr372	chr8:74581558-74582574	0	0
Olfr373	chr8:74623660-74624605	0	0
Olfr374	chr8:74630938-74634408	0	0
Mir28b	chr8:75540410-75540490	0	0
Isx	chr8:77397072-77417405	0	0
1700007B14Rik	chr8:77972592-78508406	0	0
Gm10649	chr8:79272985-79424072	0	0
1700092C02Rik	chr8:80148070-80152855	0	0
Ednra	chr8:80186927-80248351	0	0
Pou4f2	chr8:80956907-80960551	0	0
1700011L22Rik	chr8:81734328-81772482	0	0
Gypa	chr8:83017943-83034684	0	0
4933434I20Rik	chr8:85872370-85903301	0	0
Clgn	chr8:85913789-85950728	0	0
Olfr370	chr8:86064991-86066087	0	0
Mir1199	chr8:86535413-86535532	0	0
Palm3	chr8:86545372-86554194	0	0
Il27ra	chr8:86554184-86566474	0	0
Mir709	chr8:86609997-86610085	0	0
Mir181d	chr8:86702614-86702686	0	0
Mir181c	chr8:86702771-86702860	0	0
Mir23a	chr8:86732416-86732491	0	0
Mir27a	chr8:86732570-86732657	0	0
Mir3074-2	chr8:86732723-86732806	0	0
Olfr371	chr8:87754395-87755334	0	0
Gm10637	chr8:89693645-89723749	0	0
Cbln1	chr8:89992751-89996491	0	0
Gm2694	chr8:89996710-90049453	0	0
4933402J07Rik	chr8:90087805-90113096	0	0
Sall1	chr8:91551142-91568061	0	0
Irx6	chr8:95198300-95203979	0	0
Ces1a	chr8:95544113-95572091	0	0
Ces5a	chr8:96038094-96059607	0	0
Mt3	chr8:96676506-96678048	0	0
Mir138-2	chr8:96848210-96848281	0	0
Ccdc102a	chr8:97426768-97441998	0	0
Cngb1	chr8:97762942-97830485	0	0
Prss54	chr8:98083191-98099097	0	0
Mir1186b	chr8:98487443-98487506	0	0
Cdh8	chr8:101552668-101940357	0	0

4933400L20Rik	chr8:106127698-106204282	0	0
Cdh5	chr8:106625524-106668402	0	0
Cdh16	chr8:107125814-107148296	0	0
Ces2a	chr8:107257902-107265534	0	0
4932416K20Rik	chr8:107319136-107322692	0	0
Ces2b	chr8:107355543-107362552	0	0
Ces3a	chr8:107572498-107582314	0	0
Ces3b	chr8:107607654-107617491	0	0
Mir328	chr8:107832263-107832360	0	0
Plekhg4	chr8:107899280-107906762	0	0
Dpep3	chr8:108497419-108503319	0	0
1110028F18Rik	chr8:109111042-109118720	0	0
Mir140	chr8:110075143-110075213	0	0
Mir3108	chr8:111460759-111460838	0	0
Pmfbp1	chr8:112017926-112066542	0	0
Snord71	chr8:112363211-112363275	0	0
Calb2	chr8:112666437-112692106	0	0
Snord111	chr8:113362434-113362498	0	0
Mir3473d	chr8:113540349-113540430	0	0
Clec18a	chr8:113593396-113605608	0	0
Chst5	chr8:114413034-114434099	0	0
Cntnap4	chr8:115093942-115406607	0	0
Gm10280	chr8:115591161-115617233	0	0
Adamts18	chr8:116222036-116372739	0	0
Clec3a	chr8:116941933-116952033	0	0
4930563M20Rik	chr8:119305611-119325312	0	0
Slc38a8	chr8:122003502-122025598	0	0
Adad2	chr8:122136646-122140826	0	0
Kcng4	chr8:122147753-122159580	0	0
1110050K14Rik	chr8:123578781-123606932	0	0
Foxf1a	chr8:123608373-123610779	0	0
Foxc2	chr8:123640070-123642794	0	0
Foxl1	chr8:123651584-123654544	0	0
1700018B08Rik	chr8:124054683-124065854	0	0
BC048644	chr8:124431732-124442328	0	0
Car5a	chr8:124440043-124468812	0	0
Snord68	chr8:125626957-125627005	0	0
Cpne7	chr8:125641273-125659085	0	0
Dpep1	chr8:125710134-125725713	0	0
Mir1967	chr8:126546540-126546622	0	0
Mir1903	chr8:130883140-130883220	0	0
Ccdc7	chr8:131503918-131589392	0	0
1700008F21Rik	chr8:131591033-131707632	0	0
Mir101c	chr9:3038668-3038743	0	0
Gria4	chr9:4417892-4796234	0	0
Ddi1	chr9:6265027-6266547	0	0
Mmp1b	chr9:7367669-7388026	0	0
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Mmp1a	chr9:7464140-7476869	0	0
Mmp10	chr9:7502359-7510240	0	0
Mmp8	chr9:7558428-7568486	0	0
Mmp27	chr9:7571457-7581393	0	0

Mmp20	chr9:7628230-7674968	0	0
Mmp7	chr9:7692110-7699416	0	0
1700128F08Rik	chr9:8221888-8241987	0	0
Mir1899	chr9:8246785-8246881	0	0
Cntn5	chr9:9660890-10904775	0	0
4930568E12Rik	chr9:13091266-13105855	0	0
1700012B09Rik	chr9:14562637-14575474	0	0
Folr4	chr9:14690257-14708395	0	0
Scarna9	chr9:15130732-15130774	0	0
4930540M03Rik	chr9:15424300-15445664	0	0
Mtnr1b	chr9:15667057-15679000	0	0
Ubtfl1	chr9:18208861-18215946	0	0
Mbd3l2	chr9:18235058-18250760	0	0
Mbd3l1	chr9:18282838-18289736	0	0
Olfr24	chr9:18559135-18560077	0	0
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Olfr850	chr9:19281744-19282692	0	0
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Olfr77	chr9:19721672-19726954	0	0
Olfr866	chr9:19831402-19832479	0	0
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Olfr18	chr9:20118335-20140538	0	0
Col5a3	chr9:20574493-20619478	0	0
Rdh8	chr9:20622947-20630607	0	0
Mir1900	chr9:20836694-20836772	0	0
Mir199a-1	chr9:21300938-21301008	0	0

Gm6607	chr9:22134585-22135134	0	0
Bmper	chr9:23027519-23289646	0	0
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Dpy1912	chr9:24361491-24500737	0	0
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Tbx20	chr9:24525255-24578747	0	0
Glb1l3	chr9:26625537-26668408	0	0
Spata19	chr9:27204405-27209295	0	0
Mir3471-1	chr9:30942991-31066970	0	0
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7630403G23Rik	chr9:33849955-33866604	0	0
4933422A05Rik	chr9:35088689-35093008	0	0
Gm5916	chr9:35927518-35936364	0	0
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Gm9513	chr9:36283222-36284765	0	0
Gm5615	chr9:36339987-36349548	0	0
Gm17689	chr9:36388862-36390220	0	0
A630095E13Rik	chr9:36443338-36446187	0	0
1700027I24Rik	chr9:36476440-36500774	0	0
Acrv1	chr9:36500804-36506422	0	0
Robo4	chr9:37209630-37221607	0	0
Robo3	chr9:37223629-37240760	0	0
Olfr160	chr9:37518932-37519865	0	0
Olfr151	chr9:37537561-37538646	0	0
Olfr874	chr9:37553720-37554653	0	0
Olfr875	chr9:37580221-37581225	0	0
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Olfr877	chr9:37662404-37663340	0	0
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Olfr878	chr9:37726132-37727197	0	0
Olfr884	chr9:37854808-37855738	0	0
Olfr885	chr9:37868906-37869836	0	0
Olfr887	chr9:37892422-37893352	0	0
Olfr888	chr9:37916272-37917217	0	0
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Olfr890	chr9:37950721-37951666	0	0
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Olfr898	chr9:38156669-38157620	0	0
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Olfr900	chr9:38185467-38186418	0	0
Olfr147	chr9:38209295-38211414	0	0
Olfr902	chr9:38256376-38257432	0	0
Olfr904	chr9:38271627-38272560	0	0
Olfr905	chr9:38280333-38281266	0	0
Olfr906	chr9:38295615-38296551	0	0
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Olfr910	chr9:38345466-38347414	0	0
Olfr912	chr9:38387828-38389796	0	0
Olfr913	chr9:38400387-38402746	0	0
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Olfr944	chr9:39024943-39025879	0	0
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Dusp21	chrX:17722995-17723818	0	0
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Cypt2-ps	chrX:102695110-102695976	0	0
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Fnd3c2	chrX:103430584-103450711	0	0
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Tbx22	chrX:104863302-104884319	0	0
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4921511C20Rik	chrX:123928824-123930430	0	0
4930558G05Rik	chrX:125586059-125601682	0	0
Tnmd	chrX:130385546-130400116	0	0
Mir3112	chrX:130609854-130609936	0	0
Taf7l	chrX:130994654-131011029	0	0
B230119M05Rik	chrX:131219100-131221001	0	0
Nxf2	chrX:131479069-131499293	0	0
AV320801	chrX:131702162-131712171	0	0
Pramel3	chrX:131836854-131847175	0	0
Gm7903	chrX:131907822-131917932	0	0
Gm5128	chrX:131968373-131978536	0	0
Gm15023	chrX:132029126-132039133	0	0

Nxf7	chrX:132114325-132128394	0	0
Prame	chrX:132147540-132162244	0	0
1700008I05Rik	chrX:132189236-132228329	0	0
Tmsb15a	chrX:132253205-132255212	0	0
Nxf3	chrX:132606637-132619794	0	0
5730412P04Rik	chrX:132639141-132649959	0	0
Tceal7	chrX:132758579-132760639	0	0
Kir3dl2	chrX:132982645-133003580	0	0
Kir3dl1	chrX:133052537-133068847	0	0
Rab9b	chrX:133392689-133403079	0	0
1700014N06Rik	chrX:133461863-133462912	0	0
Esx1	chrX:133649935-133654865	0	0
Il1rapl2	chrX:134106087-135381494	0	0
Tex13a	chrX:134742703-134744119	0	0
Nrk	chrX:135448968-135543629	0	0
Serpina7	chrX:135613788-135619775	0	0
4930513O06Rik	chrX:135620781-135627942	0	0
C330013F16Rik	chrX:135774764-135892277	0	0
Trap1a	chrX:135868221-135872704	0	0
Ripply1	chrX:136314219-136316892	0	0
Nup62cl	chrX:136542211-136597107	0	0
Mir3475	chrX:136845486-136845551	0	0
Frmpr3	chrX:136916509-136929079	0	0
Irs4	chrX:138145540-138159760	0	0
Gucy2f	chrX:138513831-138631479	0	0
Kcne1l	chrX:138739295-138740741	0	0
Capn6	chrX:140236779-140261955	0	0
Dcx	chrX:140290384-140367762	0	0
A730046J19Rik	chrX:140588237-140600817	0	0
Mir680-2	chrX:140732332-140732442	0	0
Zcchc16	chrX:141123449-141556953	0	0
Htr2c	chrX:143397055-143631820	0	0
Snora35	chrX:143428932-143429051	0	0
Mir764	chrX:143436801-143436909	0	0
Mir1912	chrX:143443983-143444070	0	0
Mir1264	chrX:143445143-143445229	0	0
Mir1298	chrX:143499447-143499545	0	0
Mir448	chrX:143592752-143592864	0	0
Il13ra2	chrX:143818020-143838375	0	0
Ott	chrX:144427535-144467717	0	0
Gm15093	chrX:144435111-144467717	0	0
Gm15107	chrX:144615266-144659253	0	0
Ott	chrX:144615266-144955989	0	0
Gm15093	chrX:144756676-144789273	0	0
Gm15114	chrX:144923491-144955989	0	0
Gm15127	chrX:145098146-145138392	0	0
Luzp4	chrX:145317118-145358682	0	0
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Gm15093	chrX:145706919-145739546	0	0
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Gm15093	chrX:145540098-145572695	0	0
Ott	chrX:145882159-145922327	0	0

Gm15093	chrX:145889719-145922327	0	0
Gm10439	chrX:146029143-146071164	0	0
Gm15127	chrX:146219021-146419525	0	0
Gm15097	chrX:146219046-146261237	0	0
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Gm15104	chrX:146747493-146747907	0	0
Mirlet7f-2	chrX:148346888-148346971	0	0
Mir98	chrX:148347756-148347864	0	0
Gm7157	chrX:148997876-148998512	0	0
Gpr143	chrX:149216463-149243189	0	0
Foxr2	chrX:149553330-149567404	0	0
Cypt3	chrX:149993135-149993972	0	0
Gm15144	chrX:150436132-150447183	0	0
Gm10057	chrX:150436132-150447185	0	0
4921511M17Rik	chrX:150457322-150468370	0	0
Gm10057	chrX:150457322-150468372	0	0
Gm15144	chrX:150478528-150489582	0	0
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Gm15144	chrX:150544175-150555228	0	0
Gm16445	chrX:150587113-150591430	0	0
4930524N10Rik	chrX:150773767-150777935	0	0
4930542N07Rik	chrX:150916544-150919225	0	0
Gm5647	chrX:151009770-151013873	0	0
Gm16390	chrX:151321345-151324810	0	0
Magea6	chrX:151358554-151360658	0	0
Magea3	chrX:151383005-151384112	0	0
Magea8	chrX:151420317-151430393	0	0
Magea2	chrX:151461743-151467835	0	0
Magea5	chrX:151487603-151496096	0	0
Magea1	chrX:151523061-151524333	0	0
1700042B14Rik	chrX:151559523-151582392	0	0
Ptchd1	chrX:152004278-152057870	0	0
4930503H13Rik	chrX:152974025-152974660	0	0
Smpx	chrX:154136904-154190523	0	0
Mir3473	chrX:159312849-159312927	0	0
Grpr	chrX:159951835-159987579	0	0
1700045I19Rik	chrX:160198071-160199261	0	0
Tmem27	chrX:160528118-160556791	0	0
Asb9	chrX:160935834-160977684	0	0
Gira2	chrX:161566948-161764913	0	0
Gm1720	chrX:163099956-163127744	0	0
Gm8817	chrX:163501380-163508302	0	0
Tlr8	chrX:163680663-163701720	0	0
Amelx	chrX:165614045-165625141	0	0
4933400A11Rik	chrX:166214309-166217567	0	0
Zfy1	chrY:61649-133852	0	0
Tspy-ps	chrY:392206-395311	0	0
Usp9y	chrY:635403-796225	0	0
Zfy2	chrY:1362122-1426357	0	0
Gm6026	chrY:1855008-1855344	0	0
Gm16501	chrY:1976248-1976584	0	0
Rbmy1a1	chrY:2156898-2168120	0	0

